

**STATE COMMITTEE FOR COMMUNICATION, INFORMATION AND
TELECOMMUNICATION TECHNOLOGIES OF THE REPUBLIC OF
UZBEKISTAN**

TASHKENT UNIVERSITY OF INFORMATION TECHNOLOGIES

To Protect
Supervisor

« ____ » _____ 2014 y.

GRADUATION QUALIFYING WORK OF BACHELOR

THEME: SOFTWARE OF ELECTRONIC BOOKSHOP CREATION

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Tashkent 2014.

**STATE COMMITTEE FOR COMMUNICATION, INFORMATION AND
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UZBEKISTAN**

TASHKENT UNIVERSITY OF INFORMATION TECHNOLOGIES

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CONFIRM

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<<____>> _____ 2014 y

Task For Final Qualifying Work

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1. Theme: Supporting Distance Education Services for library services.
2. Confirmed by University order № ____ from « ____ » _____ 2014
3. Submission term finished work _____
4. Source data to work: scientific and technical literature, Internet sites, Distance Education service in libraries, programming language.
5. Content of estimated explanatory records (questions list of elaboration): Introduction, Distance Education Service (E-learning), International comparisons, Characteristics of the service, Algorithm and Functional Structure of VRS, Security of life activity, Conclusion
6. List of graphic materials: Presentation slides of Microsoft PowerPoint program
7. Date of task issue _____

Supervisor _____
(signature)

Task received _____
(signature)

8. Consultants on separate parts of final qualifying work

Units	Name of Instructor	Signature date	
		Task issued	Task received
Main part	Rakhmatullaev M.A.		
SLA and ST	Tursunova A.		

9. Schedule of work implementation

№	Title	Term of implementation	Mark of instructor
1.	The Analyze of the nowadays Bookstores condition		
2.	Information Pattern and algorithms of the creation of Electronic books		
3.	Functional and Organizational structure and exploitation of the Online Bookstore		
4.	Technical safety work defense information library place		

Graduate _____

« ____ » _____ 2014

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« ____ » ______2014

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THE SUMMARY

The present final qualifying work is devoted for a facilitating of the online bookstores services among readers. It contains basic concepts of a speciality, and their tendency all over the world. Here, we analysed all created web sites and create the new one which can service all reader from network. Here also organizational, functional structures and using guide for users.

MAZMUNNOMA

Ushbu BMIda – kitobxonlar talablarini qondirishni yengillashtirish maqsadida yangi onlayn internet kitob do’koni yaratish borasida so’z yuritiladi. Unda sohaga oid tushunchalar, ularning jaxondagi tendensiyalari haqida tushuncha, bu xizmatning afzalliklari o’rganilgan va tahlil ilingan hamda onlayn internet kitob do’koni dasturiy ta’minotni yaratish texnologiyalari, ularni ko’rinishlari aks ettirilgan. Internetda xizmat ko’rsata oladigan dastur yaratilgan va uning qo’llanish yo’llari ko’rsatilgan.

АННОТАЦИЯ

В настоящем Выпускная работа посвящена для стимулирует, услуг интернет-магазинах среди читателей. Он содержит основные понятия специальности и их склонность во всем мире. Здесь, мы проанализировали все созданные веб-сайты и создать новый, который может обслуживать все

читателя от сети. Здесь также организационные, функциональные структуры и используя руководство для пользователей.

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Introduction

The information revolution beginning at the early 21 century has essentially changed the role of libraries. Usage of new information technologies hundred times increased the opportunities of access to information.

In purposes of creation cordially new information centers, based on regional universal scientific libraries, oriented on satisfaction of intellectual needs of young generation, preservation cultural, moral and spiritual values, creation of all necessary conditions for wider in information supply, therefore the President of the Republic of Uzbekistan Islam Karimov's Decision №381 of June 20, 2006 «About organization of information-library service to the population of the Republic» became an important step in library service development. There were created information-librarian centers in Karakalpakstan Republic, 12 regions and in Tashkent city with transmission it from Ministry of culture and sport to Uzbek agency of communication and information. In purposes of coordination, development of information-librarian centers, the Ministry of Republic of Uzbekistan accepted a decree №178 from the 1th August 2006, where with the order of organizational structure definition there were determined the propositions of Centre. According to new decree of Uzbek agency communication and information were determined the range of questions, propositions and worked out the plan of arrangements. In this way the Republic information-librarian center was organized, confirmed the Statute, and worked out job instructions of Centre's staff. The Centre has government registration, opened accounts in bank etc.

Degree of research of the work: Although some scientists' researches have simulated methods of creation and using online bookstores for people who want to get full text of the book in electronic version. Nowadays, a number of work has been announced creation electronic library. The main conception, definition, explanations of the terms about electronic catalogue, folding electronic catalogue and electronic libraries have been dedicated and said trend of electronic library creation in researches of ShraybekYa. L, Borodovskiy A.I, Antopolskiy A.B, Boroyanskiy F.S. Technologies for electronic library creation and methods of

using their sources have been indicated in researches of Uzbek scientists who is Umarov A.O, Rakhmatullayev M.A, Karimov U.F, Mukhammadiyev A.Sh, Atadjanov J.A. A lot of work which was created electronic catalogues and teaching how to use by using multimedia handbooks was composed by Karimov who works in Tashkent University of Information Technologies.

The purpose of the work: is to create the online bookshop by the mastering methods and provide the open access to them.

The tasks of the work:

- To analyze the tendency of developing online bookstores in the world.
- To create the models and algorithms of online bookstore and developing its base.
- To create functional and organizational structure of system for online bookstores creation and using them.

The object and subject of the research: The object of research is information process in creation electronic library, the subject of the research is web site's sources and forms, instruments and methods of using them.

The methods of the research: the methodological principles of aforementioned research consist of scientific literatures relating to theory and proceeding of the field, various documents which are indicated to develop online stores among peoples. Electronic cataloguing, new technologies, analyze documents and other methods of the research are methods of research too.

Practical importance of the consequences of the research: Users can learn English from the web site and using electron catalogues. And they can easily get full texts of the book from the online bookstore.

News of research consists of the following: Online bookstores has not been created in Dublin Core our Republic till present. One of the scientific researches consists of forming electronic library's fund and using it, electronically cataloguing electronic books and handbooks.

Scientific assumption of the research is composed of the following: if online bookstore will be created it will be useful for readers, as a result, process of getting information will go up in new step.

Structure and order of the work: Final qualifying work consists of introduction, 4 chapters, conclusion, invitations, the list of used literature. The first chapter was named “The Analyze of the nowadays Bookstores condition” and information about the analysis of the creation technology which is online bookstores and data base, electronic library: Terms, definitions and main conceptions, the view of created online bookstore has been given here. The second chapter was named “Information Pattern and algorithms of the creation of Electronic books” and information about the classification of the online bookstore, information model of forming online bookstores’ database of electronic library, the algorithm of the electronic library creation has been given. The third chapter was named “Functional and Organizational structure and exploitation of the Online Bookstore” and information about the functional and organizational structure of online bookstore creation, shaping database of electronic library of online bookstore for users, the instruction relating to using from created electronic library for users of the site. Theme of fourth chapter in final qualifying work was named “Technical safety and work defense in the information library places” were shown.

I. THE ANALYSE OF THE NOWADAYS BOOKSTORES CONDITION

1.1. Designing and analyzing today's online bookshops condition

The Best Book Shop order to provide online services to improve profit and extend their marketing, they invite us to design one online bookshop system.

Internet shopping is a process to allow consumers to purchase goods or services directly from a seller in real time, without intermediary services on the Internet. If there is an intermediary service is called e-commerce. An online shop, eshop, e-store, internet shop, webshop, webstore, online store, or Virtual store evokes the physical simulation to purchase products or services in a brick and cement retailer or shopping mall. This process is known as business to consumer (B2C) online shopping. When companies buy other companies, is known as the Business to Business (B2B) online shopping. B2C and B2B both in the form of e-commerce online shopping.

In order to design bookshop system, we will visit simple online bookshop for feasibility study. Create project planning to control work flow, design the program and related database system, we will provide installation guide and user guide as the same time. We will present our work with several documents, each document is dependent showing their individual information. There are feasibility report, project planning, program design, installation guide and user guide. Open those documents you can find what details we are working.

A context diagram is a data flow diagram, with only one massive central process that subsumes everything inside the scope of the system. It shows how the system will receive and send data flows to the external entities involved. The online book shop system including three functions: customer, Supplier, and The best book shop. Clients apply for membership and can buy book online. The member function is mainly for purchasing book online. When guest be a member of online book shop, they can purchase view the3 book detail and purchase it

online though credit card. The supplier will provide book's information to the best book shop, after that, their book will be a product of online book shop; they will return profit and book selling status. The best book shop mainly provides the online platform and maintain for it.

The aim of the research program is to develop an online book shop .The intention is to understanding of the modeling and installation of a data-driven system, information systems planning, project management, rapid application development and end-user systems development.

Objectives:

To develop a user-friendly e-commerce website.

To provide different books for customer to choose

To develop a web interface for administrator access to update book store

To provide information of book

To setup the book price and purchase online

The first step in the process of buying the product is to apply for membership. After registered, user's data will store in database and only registered member can see book detail and purchase. Then, customer will choose their wish list and add in the cart, after that, the data will store in database. While client click go to payment, it will redirect to payment gateway to process it. Whatever the payment is success or not, the payment gateway will return. If payment success, book shop will prepare the delivery.

The online book shop will provide login and password to supplier. When supplier login into the system, they can update their book information and add some new book into the system. While submitted the data, the online book shop will approve or reject the product. If approved the product, the book will display on the book store.

The best book shop is the administrator of the website; they provide maintain and update product information. After administrator login into system, they will update the website data, approve the product provide from supplier or download sales report, purchase report else.

The Figure shows the entity life history for a member. A member begins its life by a "New member", and ends it by a "Close". When a member join the membership and confirmed, it will start the member lift cycle (purchase book the website).

Kent (1978) explained that database is a model of some aspect of the reality of and organization. A data model allows us to treat a database as an abstract machine. In other words, we can concentrate on the principles of design divorced from an immediate concern with implementation.

There have three database packages suitable for their website, relational database, object –oriented database and Object-relational database. The basic data structure of the relational model is the table, thus all relations (tables) in a relational database have to adhere to some basic rules to qualify as relations. An object- oriented database can be said to provide a middle ground between relational database and object-oriented database, which means it included with a programming API for storing and retrieving objects, and little or no specific support for querying. An Object-relational database is a database management system (DBMS) similar to a relational database, but with an object-oriented database model: objects, classes and inheritance are directly supported in database schemas and in the query language.

Three database packages would be suitable for the setup business directory.

Edgar F. Codd (1970) invented the relational database in 1970, relational database are based on relational set theory which is the structure of a database. A database is simply a collection of one or more relations or tables with columns and rows. Because of serials relations of tables, Normalization is a vital component of relational model of database. Normalization was an integral part of the relational model which increases complexity and processing.

Benefits of relational database are that the system is simple, flexible, and productive. Because the tables are simple, data is easier to understand and communicate with others. Relational database are flexible because users do not have to use predefined keys to input information. Also, relational database are

more productive because SQL is an easy and human-readable language. SQL instructions are in the form of plain instructions, which can be put to the database for implementation. This allows users to spend more time inputting instead of learning. The other important advantages of relational database include their performance, power, and support to new hardware technologies as also flexibility and a capacity to meet all types of data needs. More importantly, relational database biggest advantage is the ease with which users can create and access data and extend it if needed

But there are limitations to the relational database management system. First, relational database do not have enough storage area to handle data such as images, digital and audio/video. The system was originally created to handle the integration of media, traditional fielded data, and templates. Another limitation of the relational database is its inadequacy to operate with languages outside of SQL. After its original development, languages such as C++ and JavaScript were formed. However, relational database do not work efficiently with these languages. A third limitation is the requirement that information must be in tables where relationships between entities are defined by values.

The three fundamentals of a relational database are that all information must be held in the form of a table, where all data are described using data values. The second fundamental is that each value found in the table columns does not repeat. The final fundamental is the use of Standard Query Language (SQL), such as MYSQL or Microsoft's Access.

MYSQL Available from: <http://www.mysql.com/> [Accessed 23 January, 2009]

Microsoft's Access Available from: <http://office.microsoft.com/en-us/access/default.aspx> [Accessed 23 January, 2009]

To combat the limitations of relational database and meet the challenge of the increasing rise of the Internet and the Web, object-oriented database developed in the 1980s. The most important characteristic for object-oriented database is the

joining of object-oriented programming with database technology, which provides an integrated application development system.

The object-oriented database has many advantages and benefits. First, object-oriented is a more natural way of thinking. Second, the defined operations of these types of systems are not dependent on the particular database application running at a given moment. Third, users are allowed to define their own methods of access to data and how it will be represented. It can store more types of data, and access this data, and much faster than relational database. Another benefit of object-oriented database is that relationships are represented explicitly, it support large number of relationships between the objects.

However, object-oriented database also has disadvantages or limitations. One disadvantage of relational database is that it lacks a common data model. There is also no current standard, since it is still considered to be in the development stages. Also there are unavailability of object-oriented CASE tools and confusion with too many different object-oriented development methods.

Object-oriented database use a query language called object query language (OQL) to manipulate and retrieve data. object query language supports object referencing within tables. Objects can be nested within objects. Python is an example of Object-oriented database.

Python Available from: <http://python.org/> [Accessed 23 January, 2009]

Object-relational database management systems grew out of research that occurred in the early 1990s. It can handle new types of data such as audio, video, and image files that relational database were not equipped to handle. In addition, its development was the result of increased usage of object-oriented and a large mismatch between these and the DBMS software. Object-relational database are systems that “attempt to extend relational database systems with the functionality necessary to support a broader class of applications and, in many ways, provide a bridge between the relational and object-oriented paradigms.”

One advantage of ORDBMS is that it allows organizations to continue using their existing systems, without having to make major changes. This can be referred

to as reuse. It gives rise to increased productivity both for developer and end-user. A second advantage is that it allows users and programmers to start using object-oriented systems in parallel. Also, it is able to handle and query large and complex applications.

Though Object-relational databases have some advantages by the way of using object-oriented features, it is also not fully solving the problems. Object-oriented databases have some disadvantages like Complexity and SQL is now extremely complex thus query is hard to optimize.

Many SQL object-relational databases are extensible with user-defined types and custom-written functions, such as Oracle.

To deploy a database on the internet, we need a server process to do it. The client side can use a browser as a tool to access the database. The server side has to set up a web server. The client sends the request to the server through the browser. When the database saves the record and it sends back a response through the browser. The browser processes all the database actions. We can build and design the web site by using Dreamweaver.

We can install IIS as our web server in the Windows platform. IIS supports Active Server Pages (ASP) which is a technology that enables you to make dynamic and interactive web pages. ASP pages have the extension .asp instead of .htm, when a page with the extension .asp is requested by a browser the web server knows to interpret any ASP contained within the web page before sending the HTML produced to the browser. This way all the ASP is run on the web server and no ASP will ever be passed to the web browser. Access or SQL server can be used for the database.

Linux is a perfect platform for setting up a web server. We can install Fedora as our OS. Apache would be the best web server. On the program side we can use PHP which is a freeware for building up a web page. The database can use MySQL as a database server, it's a relational database.

Install MYSQL database server

Once implement bookshop system, we need create related database for record information that create by bookshop system or input from users. Bookshop system is using MYSQL for backend database system, please visit <http://www.mysql.com> for more information and download MYSQL DBMS software.

Fist visit <http://www.mysql.com> , you will see “download (GA)” on the top of the web page, click this button and the page of body will change to download information, scroll down the web page, you can find MYSQL Community Server, it will show a short description and version no of this DBMS. Click “download” button (with red circle remark on figure) to enter download MYSQL DBMS.

After enter download page, you will see different package of database system, you need to choice which operating system for your database server. For example, if you are using windows server, please choice Microsoft Windows, and there have 32bits and 64bits version for user install. We recommend download package that with installation execute.

Directly double click the file you download from mysql.com for MYSQL server installation, setup program will ask you question step by step to help you install MYSQL DBMS in to windows system, such as where you want to install MYSQL DBMS, and which component you want to install. We recommend you setup MYSQL on the root of the server that such as “C:\MYSQL” on windows system. It is because it let user easier to operate and manage data on database system. And we recommend user use “complete” method to setup MYSQL, it make setup program install all of MYSQL DBMS component into the windows server, it reduce the problem that we may need reinstall some components when MYSQL system report something missing when system running. Please follow below pictures to setup MYSQL DBMS.

Double click “mysql-essential-ver-win32.msi” that you downloaded from mysql.com

Straight forward to DBMS

Click “Next”

We recommend choice “Complete” to let setup program to install all MYSQL components into windows system.

Click “Install” to start installation.

Waiting setup software copy file.

Install procedure completed, and program will ask you to configure MYSQL server, we recommend configure it as the same time.

After setup procedure, now we are going to MYSQL database server configure wizard, it is one important procedure that it may affect database server performance. The method of database setting is as same as installation procedure that setting database step by step. Please follow below step to configure database server for bookshop.

The first question asking by configuration wizard is detailed configuration or standard configuration, standard configuration is one simply configuration way that configuration wizard will set all setting with default setting, but this setting cannot satisfy heavy work loading of bookshop system, so, please choice detailed configuration, detailed configuration requires users to configure database server step by step, there are server type, database usage, data file location, users connection number, service port, character set, services install and root account setup. Follow below step to modify setting for suitable with bookshop system.

Server type have three options, they are developer machine, server machine, dedicated MYSQL server machine. Developer machine is one setting environment that provides for programmer to develop program and database, under this setting, MYSQL server will not use all of memory and CPU power for database running, it stays enough power for programmer for program coding and testing.

Dedicated MYSQL server machine is one setting environment for one computer machine that it only have MYSQL database server one services are running. In this case of setting, MYSQL will use all of CPU power and memory for push up database working performance, It is the fastest mode of those server type setting.

Server machine is a balance setting environment, it suitable for some server they need to running MYSQL database server, web server and backend CGI programming together. In this setting, MYSQL will measure CPU work load of web server and CGI program to configure power use of self database services, it can make sure a lot services are running smooth. Server machine is the setting that we recommend to choice for our bookshop system.

Database usage is one setting to ask user how to use the database system, multifunctional database is one setting that database include all query, analysis, calculation and report function, suitable for large size and major database for data analysis. Transactional database only is one setting that effort more power for query first, but user still can use data analysis and data report. Non-transactional database only is one setting only for data query with analysis etc function. We recommend using transactional database method for bookshop system.

Data file location is asking you where data file of database system storing to. IF computer machine without specific detailed hard drive for storing data, we recommend choice default setting “C:\MYSQL_DATA”.

Services port setting, MYSQL provide function of query data record by network, so it must provides one port number for network services, sometime, we may modify port number for security issue. And this time, we recommend using default port number 3306 for MYSQL service setting.

Character Set is one important setting of database, it control database record information with which language. Nowadays, a lot of systems they are stepping to international, multi language (Unicode) are most popular setting when setting database.

Next, configure wizard will ask you install windows service, it make windows administrator can control MYSQL database by windows service panel. And configuration wizard will ask for services name, default setting “MYSQL” is most popular choice. After this, wizard will ask you for root password, please setup your own password here.

Finish answers all setting, the final stage is creating database system, presses execute only and waiting configuration wizard completes all process. When all procedure complete, press Finish complete database configuration.

Since database server setup success, you need to storage database information into server. Once you installed MYSQL database server, MYSQL management console was already installed on system. Please run “C:\Program Files\mysql\bin\mysql.exe -h localhost -u root -p” to run database management console. Console will require you to enter root password, please enter the password that you setup before. We had prepared MYSQL statement on bookshop installation package, please download and copy it on MYSQL management console as follow step.

After create database, tables and relationship, database were setup completed. And next, you need to create web server.

Enter root password to login MYSQL management console.

Create database first

Create table Book

Create table book_picture

Create table member

Create table member_order

Create table member_order_detail

Create table publisher

Create relationship with different tables

Installation Guide

Web Server & PHP

You need to setup web server once database server setup complete. Web server is use to provide bookshop interface for users and customers. Apache and IIS are most popular web server software. IIS are default service provider of windows server series, and apache are always use on Linux platform. But sometimes, user may wish to provide web services on windows XP or Windows 7 platform, at that time, apache is a good solution for non server series.

Apache web server are one open source web services, user can download source program on apache web site <http://www.apache.org>. Please follow below step to download source program.

On download page, apache.org provide several mirror site for user download, they will provide one mirror server that the nearest your location, click this link for best quality and fastest download speed.

Enter download server, there have a list provide different version of apache server for different operating system. There have four versions for windows, the different between those four versions is bundle openssl or not and 32/64 bits option. Bookshop system provide online payment system, openssl can provide encrypt connection between server and client computer. It required by bookshop system.

After download then run the setup program, it will show you version number and using agreement, choose accept and click next then straight forward to setup apache server.

Next, setup program will show you some new feature of latest version apache server and request you fill in domain name, server name and administrator's email, please fill those information that showing at above figure.

After that, setup program with ask you setup method, we recommend typical installation that program will install all of component, it make sure web page running smooth. Then, program will ask you locate of the program, default is C:\Program Files\Apache Group.

After answer all question, click install to let setup program copy and install file to machine, after all of procedure, program will you message and click finish to complete installation.

Bookshop system are one web base program, that mean it not only require apache provide web services, a backend CGI program are required by bookshop system too. PHP is the CGI program that bookshop system using. So, when complete setup apache web server, please setup PHP CGI runtime environment.

PHP is open source CGI environment, user can download source program on PHP web site <http://www.php.net>. Please follow below step to download source program.

Visit <http://www.php.net>, you can see stable releases on top right corner, click stable link to enter download page.

Enter download page, php.net will list different version of PHP environment for different operating system. We recommend user download windows binaries with installer (the link of red circle)

Please run setup program when download complete, accept license agreement and click next to forward setup procedure.

After that, installer will ask for your setup location, and CGI running options, IIS FastCGI is using for Windows IIS web services, and Other CGI is using for apache and other web server program. You had installed apache and it match with Other CGI option.

Next, Installer will show the module and asking you for install to machine, we recommend copy extensions only because we wish PHP only working for web server, after select modules then click installs to start coping file to machine.

Finally, waiting for installer copy file to machine, click finish when installer complete install PHP runtime environment.

Now, all of components install success, we need to implement bookshop system. We provided one package call “bookshop.rar”, open with winrar or winzip, you may see the source program files, copy those program files to apache server provide font end interface. Details procedures please follow below figures.

Open “bookshop.rar” by winrar or winzip, you can see the source program.

Go to Apache’s folder (default is C:\Program Files\Apache Group\Apache2\htdocs”), there have some demo page designed by apache.org for administrator running simple test of web server, and now, delete all demo pages from this folder first.

Uncompress those sources file from “bookshop.rar” to apache’s folder htdoc. After this step, all of install procedure complete, you can open bookshop system by your browser.

Use your browser visit <http://localhost/staff/login.php> to open bookshop management system, default login is “admin” and password is “ad1234”, we strongly recommend modifying admin password after login for security issue.

Use your browser visit <http://localhost/index.php> to open bookshop front end interface, this page provide books catalog and books information for customer visit and buy books.

If front end interface and back end bookshop management system both running fine, installation procedure are totally completed.

Asking for ISP provider update DNS record to implement to internet.

1.2. The flexibility studies and differences between online bookstores

Feasibility study is one important studying that to consider the project we go do or not. Feasibility study was to evaluate a proposal to determine the specific difficulties of the task. In general, the first feasibility studies and technology development projects. In other words, the feasibility study, evaluation or analysis of the potential impact of the proposed project.

In case of our feasibility studying, first we will visit one popular online bookshop to get more information about this bookshop system, and then we use the information we collected to analysis the feasibility to implement new online bookshop.

Amazon.com, Inc. is a US-based multinational e-commerce company. Headquartered in Seattle, Washington, which is the largest online retailer, has nearly three times the runner-up Internet sales, Staples Company, as of January 2010. Amazon.com, founded in 1994 and 1995 the company launched on the web. The company was originally called Cadabra company, but the name has changed, people found that people sometimes hear the name of "body." Amazon.com also

chose this name because the Amazon is the world's largest river, so the name implies large size, but also in part because it 'a', so the letter will appear near the beginning of the list. Amazon.com started as an online bookstore but soon diversified, selling the DVD, CD, MP3 download, computer software, video games, electronics, clothing, furniture, food, toys and so on. Amazon has established separate websites in Canada, Britain, Germany, France, Japan and China. It also provides international shipping of some products in certain countries. 2009 survey found that Amazon is the UK's favorite music and video retailers, retailers and third overall.

The company began as an online bookstore, and the largest brick and cement bookstores and mail order catalog of books may provide 20 million titles, one can provide more online bookstore. Bezos company named "Amazon", the world's largest river. Since 2000, Amazon's identity is an arrow leading from A to Z, on behalf of customer satisfaction (because it forms a smile), one goal is to make each product in the alphabet.

Amazon was founded in 1994, in Washington State. July 1995, the company began to sell its services, and the first book in amazon.com - Douglas Hofstadter's Fluid concepts and creative analogies: computer models of the basic mechanisms of Thinking. In 1996, it was reincorporated in Delaware. Amazon launched its IPO on May 15, 1997, trading companies Nasidake NYSE AMZN, in the initial public offering price of \$ 18.00 per share, USD (\$ 1.50 after stock split three in the late '90s).

Amazon's initial business plan was unusual: the company does not expect profit of 4 to 5 years. It's "slow" growth caused complaints from shareholders, the company has not reached profitability fast enough. When the Internet bubble burst, many e-companies went out of business, Amazon persevered and finally turned its first profit in the fourth quarter of 2001: 500 million, or 1 cent per share, on revenues over one billion U.S. dollars, but modest It is important to the profits of the business model can prove to be profitable. In 1999, Time magazine named

Bezos Person of the Year, recognizing the company's successful promotion of online shopping.

Amazon's product line includes books, music CD, video and DVD, software, consumer electronics, kitchen supplies, tools, lawn and garden supplies, toys and games, baby supplies, clothing, Tiyuyongpin, food, jewelry, clocks and watches, health and personal care products, beauty products, musical instruments, clothing, industrial, scientific supplies and groceries.

The company launched amazon.com auction, the auction Web service, in March 1999. However, it did not take the chip in the industry pioneer eBay's large market share. amazon.com auction followed by the introduction of a fixed-price market operations, zShops, 1999 年 9 months, and the now defunct Sotheby's / Amazon Cooperation as amazon.com November. Amazon Auctions and zShops evolved into the market in 2001, launched a service to allow customers to sell used books, CD, DVD and other products with new projects. Today, the market's main rival Amazon, eBay's Half.com service.

August 2005, Amazon began selling its products in its own brand "", flat cases," said the trademark application, the label will be used for textiles, kitchen utensils, household goods. In March 2007 the company expanded to cover more trademark applications for diverse list of goods and register a new design consisting of "letters to form words Hiramatsu letter O and space gaps appear in the" one o'clock "position.". Reported by the trademark grew to include items such as paint, carpet, wallpaper, hair accessories, clothing, footwear, headgear, cleaning products and jewelry. September 2008, Amazon filed under famous. United States Patent and Trademark Office has completed the review of the application, but Amazon has not yet received official registered name.

Amazon MP3, its own online music store, launched in the United States September 25, 2007, sales of MP3 format, download no digital rights management. This is the first available online DRM - free music of all four major record companies.

The domain amazon.com attracts tourists, at least 615 million U.S. dollars, double the 2008 number of walmart.com. Amazon attracts approximately 65 million customers to its site each month in the United States.

Amazon allows users to submit comments to the page of each product. Reviewers rate the products, must be in a rating scale from one to five stars. Amazon provides an optional comment badge options that the real name of the reviewer (based on confirmed credit card account) or that Reviewer is a review by popularity.

Amazon.com customer reviews are monitored obscene, but allow negative comments. Specter, the book on amazon.com, describes how "when publishers and authors asked Bezos why the negative comments will be published amazon.com, defended his approach, claiming that amazon.com is' taking a different way ... We hope to enable each book - good, bad, ugly truth ... let loose "(Sipeikete 132). Allegations have been made, Amazon has a negative evaluation of the selective deletion of related projects, despite the views of Scientology compliance with the guidelines.

"Book Search" is a feature that allows customers to search for keywords in the text in many books directory. The function started with 120,000 titles (or 33 million pages of text) October 23, 2003. Currently about 25 million books in the program. Amazon has about 130 publishers and allows the user to perform these searches.

In order to avoid copyright infringement, amazon.com does not return a machine-readable text book. Instead, it returns pages that match a picture to prohibit printing, and proposed to limit the number of pages in a single user can access. In addition, customers can purchase online access to some of the same book through the "Amazon Upgrade" program.

About forty percent from sales of the Amazon Amazon associate and affiliate marketing so-called third-party sellers who sell their products in Amazon [citation needed]. Customers associate commission referred to the Amazon Amazon link placed on its Web site, the results of the sale if the referral. In Shijiefanwei, the

Amazon has "over 900,000 members" in its affiliate program. Amazon reported over 1.3 million sellers sold products through Amazon's Web site in 2007. Unlike eBay, Amazon sellers do not have to maintain separate payment accounts, payment processing of all the Amazon.

Employees can directly access the catalog on its Web site using Amazon Amazon Web Services (AWS) of the XML service. A new subsidiary products, aStore, the association is embedded in a subset of Amazon products, or link to another site. June 2010, Amazon launched product recommendations seller (said to be internally referred to as "Genesis Project") to provide more transparency, vendor-specific products recommended for sale to a third party Amazon seller. Product recommendations are based on customer's browsing history.

January 2010 survey found that third-party vendors Auctionbytes.com, Amazon fourth. amazon.com second "profit." The lowest rating, but still above average, in the "ease of use." Amazon seller that clearly defined rules, provides a steady stream of traffic list, with a focus on reducing part of the community. amazon.com came in second place in the sales recommendation category.

Focus on amazon.com bookshop system, there has several important features that we need to know, first is clearly item catalog system, Amazon have many items are selling on their web site, such as books, digital devices, shoes, clothes, Toys, etc. although there are too much items on bookshop system, it is very clearly and easy to find, as the same time, Amazon provide a powerful item search engine for user to search their favorite products. It is one feature that Amazon to attract users visits them and purchase items.

Another important point is shopping cart system and member system. Amazon provides are powerful member system that every customer need create one member account on Amazon.com for purchase items and transfer payment. Looking for Amazon's member system, it must have enterprise level database server to support large size transfer and member record.

Shopping cart is one system on Amazon that we need to pay attention to. When user browsing and shopping on Amazon.com, if they have some favor item

they want to buy, they can put it into shopping cart. Finally, they may go to shopping cart page to check what they had bought, if user accept to buy all items, they may direct transfer payment. If user's order has any change, they can remove any item from shopping cart, that will not to pay extra charge and the total amount will real time change.

After studding Amazon.com, we are summary that online bookshop system is one good idea to develop. We are focus on marketing and technical.

In recent years, online shopping has become popular, but it still caters to upper middle class. For online shopping, must be able to have access to a computer, bank accounts and debit cards. Shopping has evolved with the growth of technology. It is found that e-commerce in the diary, if we focus on the demographic characteristics of shoppers in the family, in general, the higher the education level, income, occupation of head of household, a more favorable perception of non-store shopping. An influential factor in consumer attitudes of non-store shopping is exposure to technology, because it has been demonstrated to increase the probability of exposure to technology development to increase the favorable attitude of the new shopping channel.

Expanded the target audience online shopping men and women of the middle class. Initially, the main users of online shopping is young men, high income level and university education. This profile is changing. For example, the early years of the Internet in the United States there are very few women users, but to women in 2001 were 52.8% of the online population.

Focus on technical of bookshop system, nowadays, hardware and software develop maturity for use to design powerful web programming and database system, we have a lot of choice to implement bookshop system, such as Windows server, Linux, Solaris, UNIX and AIX system for operating system. Database systems have MYSQL, MSSQL and Oracle. CGI Programming had PHP, Perl, C++ and Framework .Net. We are most likely to choice open source resources. They are Linux, Apache, MYSQL and PHP. The advantage of open source

resources are low cost for develop. It is very suitable for us that we without too much develop capital.

User Guide

The online book shop is an content management system. In most cases, content will refer to individual web pages, though it can also include images, videos, and other types of media. For now, we're just going to focus on written content.

Firstly, admin must login into the system:

Menu

First, you access them through the System. The left hand side is the search function, you can search the book data and order on the left side. And the right side is the data list. You can click edit and edit the data.

Books

Book management is a section to manage the book stores. Again, you must assign each book to both a category otherwise it won't be saved.

There are a few options that book have that the Categories don't and you can find those options in the parameters boxes on the right-hand side of a New or Edit Article page.

A few highlights:

You can choose the category start and end dates.

You must enter book detail data, such as name and price

Edit an book

When press the "Edit" button on the right side, it show more details and user allow to edit the data like below. After that you can edit the information like create an book.

Delete a book

Click the delete button on the bottom, and an popup will ask if you want to delete this book. Please note that if delete the book, you must sure not order in processing.

Add a category

When you access them through the Category Manager. Then click the create button and enter the information such as category name, and click “save” to store the data.

In case of book shop program development, we are following system design life cycle to allocate jobs to our team members. The advantage of system design life cycle is we can follow a standard system design method to design and build up out product with a right ways, right path. It can reduce a lot of wasted time when we are missing on some problem we hit. Different jobs information is breaking down as below:

First mission of program development is feasibility study, this mission has two breaking task, case study and feasibility analysis, and first we need to study different similar book shop such as Amazon.com, 24reader.com, bookshop.hktdc.com and shopinhk.com for studying their feature, operating method and collect useful information for program develop. After that we will provide a feasibility report after studying and feasibility analysis. It can make sure the product is running smooth and functional. Feasibility study requires one week putting into practice.

The second task is requirement analysis, collects requirement or suggestion from users, it can let us know what they need and what they want on the book shop, we may be need to talk with more than one user, bookshop manager, bookshop staffs, customers, after collect requirement, doing analysis to consider practicability and feasibility of those suggestion. I had allocated four days for this task.

After requirement analysis is program analysis and design, there have three major breakdown tasks and those have some breakdown missions. There are database design, program design and bookshop layout design. We allocate total ten days for those tasks:

Database design, one of major part is database design, there have two breakdown missions, table relationship and normalization, those missions are working parallel and that require 5 days to fulfill. First, we analysis bookshop

which of information need to record in database system, such as book name, editor name, company name, stocking, etc. Not only design record information, database table relationship is most important for database running too. After designing, we need to do a normalization to make sure database without side effect when bookshop implement. The purpose of storing information into database system make easier to update information by users of bookshop by contact management system.

Program design, second major part is program design, there have four breakdown missions, there are entity diagram, context diagram, system flow and data flow. Different diagram showing different information make clearly for programming. Entity relationship model is a database modeling method, used to produce a type of conceptual model or semantic data model systems, usually a relational database, it requires a top-down fashion. Context diagram is the highest level of a system, similar to the block diagram, showing, may be based on the software, the system as a whole, and its input and output from / to external factors. System flow and data flow are one diagram that showing abstract computing processing by image, it make program flowing clearly showing to programmer, reduce develop problems. We allocate total 8 days for program design.

Layout Design, layout design is the last major task of program analysis and design, the aim of task is designing bookshop layout, design will follow user requirement that we collect on before task. We allocate one day on this task.

After program analysis and design, we start program coding. There have three areas need to be create, SQL statement coding, Program coding and Layout coding. SQL statement is using to create database for storage data that using by program. SQL coding will follow database design that on before task. Program coding is the core function of the bookshop, the program will coding by PHP and program will follow system flow and data flow that we had designed before. Layout coding follow designed layout to build up bookshop web interface with HTML, Java script and CSS language. Program coding are one mission that wit heave work load, so, we allocate total 21 days (SQL statement coding 5 days, program coding 14 days

and layout coding 3 days.) for programmer build up program and doing self unit test themselves.

If finish all of program unit and passed unit test, we will go to next procedure, integration test. Integration test will group all unit programs we coding before to do a test together. In this test, we will running a bookshop program for demo, we will try to input some invalid data into system for bug discover. Stress test is important test too, we will try running system for a long time and we try to make a lot of information query from web interface and a lot of database process on system backend at the same time for testing system running with heavy work loading. Stress test need more time to achieve more accurate results, all of integration test need seven days putting into practice. After that, we will go to create prototype and document.

After integration test, we need to create prototype and writing document, we will create some documents for users, such as install manual and user guilds, to teach user how to configure the bookshop system. We may create one web base user guilds for bookshop visitors too. We need 14 days to doing those tasks.

Finally, we doing system and acceptance test, in this tasks we doing test with customer, first, we will provide document to customer that we prepared before to teach them how to running system, maybe we will provide training course to customer at the same time, after that we will let users try to configure and running system, the advantage of this test is customer may find out some problems on the system that they are using their viewpoints. After we make sure all parts running smooth, whole system running robust and customer accepted all the setting, we will implement the system. All of system test require seven days to complete.

There are a top of options. AMAZON, HALF, eBAY, a used bookstore – but which one is the *right* one? Will you make more if you sell with one vs. the other? I've used a combination of all of the above, because each venue serves a different purpose. But I'll tell you first and foremost that I favor Half.com for selling all of my media.

Here's why:

1. I already have a seller's account with eBay (in case you didn't know, Half is owned by eBay so their accounts are one in the same).
2. I find the user interface incredibly easy.
3. The fees are much better than on Amazon.

To illustrate the point on fees, here's a quick comparison.

Say you sell a hardback book for \$10.

Amazon Fees & Shipping Credits

- <\$0.99> – transaction fee
- <\$1.50> – 15% referral fee
- <\$1.35> – closing fee for books
- +\$3.99 – shipping credit
- <\$2.99> – actual shipping cost (hypothetical)

Net earnings = **\$7.16**

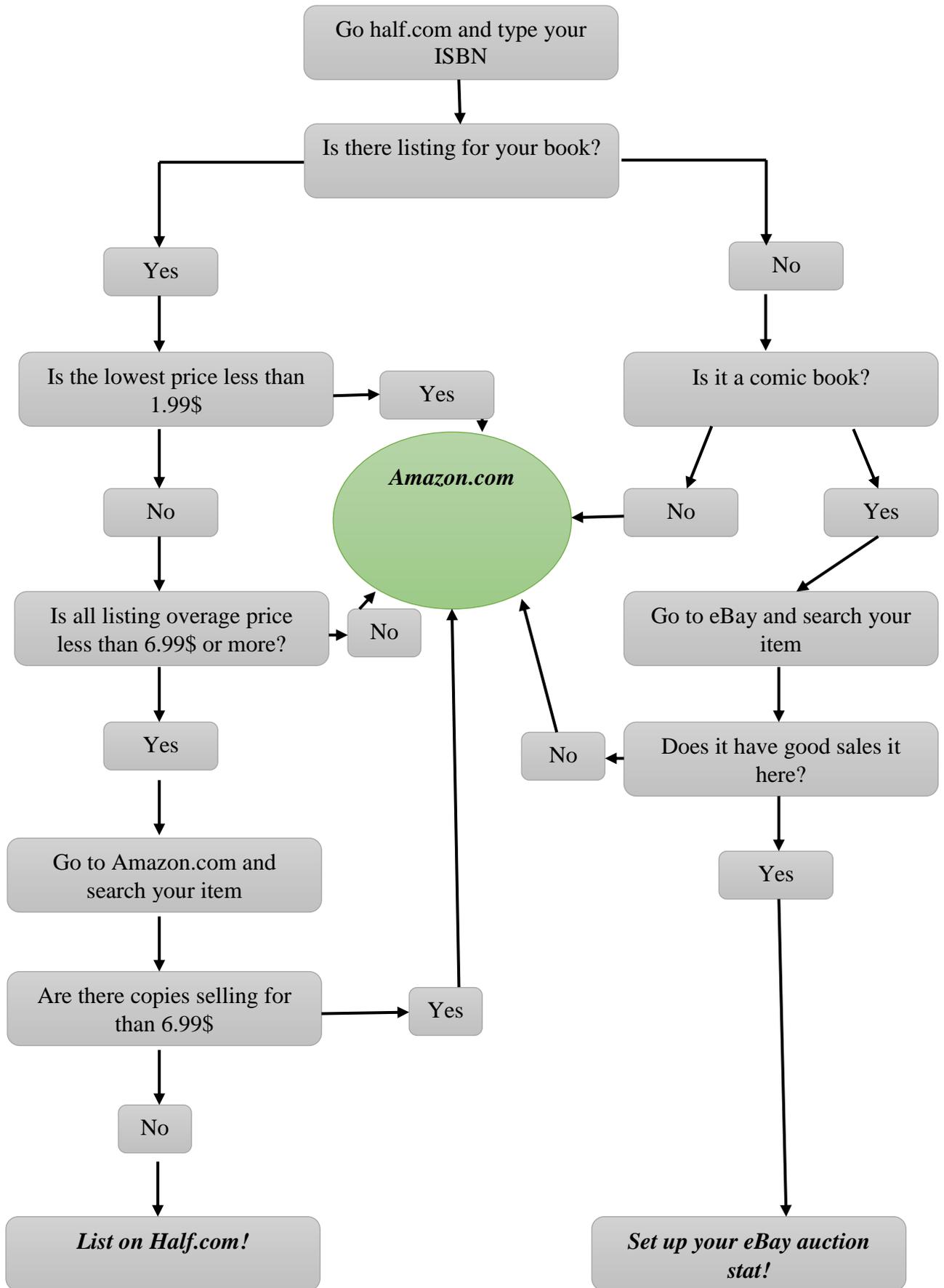
Half Fees & Shipping Credits

- <\$1.50> – 15% sale fee for books less than \$50
- +\$3.99 shipping credit
- <\$2.99> – actual shipping cost

Net earnings = **\$9.50**

See what I mean?

Now go through the process of listing. If you have a large box of books, chances are not all of them are worth selling online because they aren't worth your time to do so. To illustrate how I weed out what gets listed and what doesn't, I've created this lovely flow chart.



Conclusion

Creating online bookstores and database have been analyzed. Nowadays majority of online bookstores for people were created in HTML, Java, PHP and other languages, and their databases were created mostly in MySQL. That's why creating online bookstores for learning this programmes one of peak matters.

As above mentioned, we saw that the working system and differences between most popular online stores like a "amazon.com", "eBay.com", and "half.com". And, we create the graph that which store is the most suitable for us. In ending the graph we could see that "amazon.com" is the most suitable and comfortable choice. Because, it has about 70 millions of electronic books in 82 languages.

Continuing the view of this online stores we mentioned that they have not the electron catalogue which created the "Dublin core" version. After this view I adopt the resolution that creating the online bookstore with classification "Dublin core".

II. INFORMATION PATTERN AND ALGORITHMS OF THE CREATION OF ELECTRONIC BOOKSHOP

2.1. Information structure of bookshop

In my qualification work, I had to create electronic books' data base for my online bookshop. I used PHP in my site to resolve this problem. Here I want to give some information about creating electronic books.

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. As of January 2013, PHP was installed on more than 240 million websites (39% of those sampled) and 2.1 million web servers. Originally created by Rasmus Lerdorf in 1994, the reference implementation of PHP is now produced by The PHP Group. While PHP originally stood for Personal Home Page, it now stands for PHP: Hypertext Preprocessor, a recursive backronym. PHP code can be simply mixed with HTML code, or it can be used in combination with various templating engines and web frameworks. PHP code is usually processed by a PHP interpreter, which is usually implemented as a web server's native module or a Common Gateway Interface (CGI) executable. After the PHP code is interpreted and executed, the web server sends resulting output to its client, usually in form of a part of the generated web page – for example, PHP code can generate a web page's HTML code, an image, or some other data. PHP has also evolved to include a command-line interface (CLI) capability and can be used in standalone graphical applications. PHP is free software released under the PHP License. PHP has been widely ported and can be deployed on most web servers on almost every operating system and platform, free of charge.

There are two primary ways for adding support for PHP to a web server – as a native web server module, or as a CGI executable. PHP has a direct module interface called Server Application Programming Interface (SAPI), which is supported by many web servers including Apache HTTP Server, Microsoft IIS,

Netscape (now defunct) and iPlanet. Some other web servers, such as OmniHTTPd, support the Internet Server Application Programming Interface (ISAPI), which is a Microsoft's web server module interface. If PHP has no module support for a web server, it can always be used as a Common Gateway Interface (CGI) or FastCGI processor; in that case, the web server is configured to use PHP's CGI executable to process all requests to PHP files.

PHP-FPM (FastCGI Process Manager) is an alternative FastCGI implementation for PHP, bundled with the official PHP distribution since version 5.3.3. When compared to the older FastCGI implementation, it contains some additional features, mostly useful for heavily loaded web servers.

Installation and configuration

When using PHP for command-line scripting, a PHP command-line interface (CLI) executable is needed. PHP supports a CLI SAPI as of PHP 4.3.0.^[95] The main focus of this SAPI is developing shell applications using PHP. There are quite a few differences between the CLI SAPI and other SAPIs, although they do share many of the same behaviors.

PHP can also be used for writing desktop graphical user interface (GUI) applications, by using the PHP-GTK extension. PHP-GTK is not included in the official PHP distribution, and as an extension it can be used only with PHP versions 5.1.0 and newer. The most common way of installing PHP-GTK is compiling it from the source code.

When PHP is installed and used in cloud environments, software development kits (SDKs) are provided for using cloud-specific features. For example:

- Amazon Web Services provides the AWS SDK for PHP
- Windows Azure can be used with the Windows Azure SDK for PHP.

Numerous configuration options are supported, affecting both core PHP features and extensions. Configuration file `php.ini` is searched for in different locations, depending on the way PHP is used. The configuration file is split into

various sections, while some of the configuration options can be also set within the web server configuration.

PHP is a general-purpose scripting language that is especially suited to server-side web development where PHP generally runs on a web server. Any PHP code in a requested file is executed by the PHP runtime, usually to create dynamic web page content or dynamic images used on websites or elsewhere. It can also be used for command-line scripting and client-side graphical user interface (GUI) applications. PHP can be deployed on most web servers, many operating systems and platforms, and can be used with many relational database management systems (RDBMS). Most web hosting providers support PHP for use by their clients. It is available free of charge, and the PHP Group provides the complete source code for users to build, customize and extend for their own use.

PHP acts primarily as a filter, taking input from a file or stream containing text and/or PHP instructions and outputting another stream of data. Most commonly the output will be HTML, although it could be JSON, XML or binary data such as image or audio formats. Since PHP 4, the PHP parser compiles input to produce bytecode for processing by the Zend Engine, giving improved performance over its interpreter predecessor.

Originally designed to create dynamic web pages, PHP now focuses mainly on server-side scripting, and it is similar to other server-side scripting languages that provide dynamic content from a web server to a client, such as Microsoft's ASP.NET, Sun Microsystems' JavaServer Pages, and mod_perl. PHP has also attracted the development of many software frameworks that provide building blocks and a design structure to promote rapid application development (RAD).

Some of these include PRADO, CakePHP, Symfony, CodeIgniter, Laravel, Yii Framework, and Zend Framework, offering features similar to other web application frameworks.

The LAMP architecture has become popular in the web industry as a way of deploying web applications. PHP is commonly used as the P in this bundle

alongside Linux, Apache and MySQL, although the P may also refer to Python, Perl, or some mix of the three. Similar packages, WAMP and MAMP, are also available for Windows and OS X, with the first letter standing for the respective operating system. Although both PHP and Apache are provided as part of the Mac OS X base install, users of these packages seek a simpler installation mechanism that can be more easily kept up to date.

As of April 2007, over 20 million Internet domains had web services hosted on servers with PHP installed and `mod_php` was recorded as the most popular Apache HTTP Servermodule. As of October 2010, PHP was used as the server-side programming language on 75% of all websites whose server-side programming language was known (as of February 2014, the percentage had reached 82%), and PHP was the most-used open source software within enterprises. Web content management systems written in PHP include MediaWiki, Joomla, eZ Publish, SilverStripe, WordPress, Drupal, Moodle, the user-facing portion of Facebook, and Digg.

For specific and more advanced usage scenarios, PHP offers a well defined and documented way for writing custom extensions in C or C++. Besides extending the language itself in form of additional libraries, extensions are providing a way for improving execution speed where it is critical and there is room for improvements by using a true compiled language. PHP also offers well defined ways for embedding itself into other software projects. That way PHP can be easily used as an internalscripting language for another project, also providing tight interfacing with the project's specific internal data structures.

PHP received mixed reviews due to lacking support for multithreading at the core language level, though using threads is made possible by the "pthreads" PECLextension.

In 2013, 9% of all vulnerabilities listed by the National Vulnerability Database were linked to PHP; historically, about 30% of all vulnerabilities listed since 1996 in this database are linked to PHP. Technical security flaws of the

language itself or of its core libraries are not frequent (22 in 2009, about 1% of the total although PHP applies to about 20% of programs listed). Recognizing that programmers make mistakes, some languages include taint checking to automatically detect the lack of input validation which induces many issues. Such a feature is being developed for PHP, but its inclusion into a release has been rejected several times in the past.

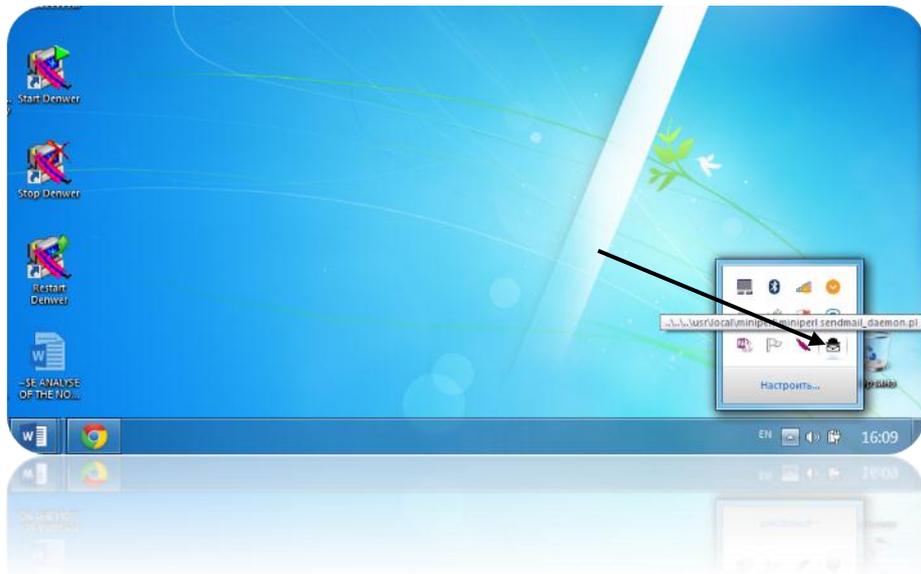
There are advanced protection patches such as Suhosin and Hardening-Patch, especially designed for web hosting environments.

Security vulnerabilities can be created by certain language features, induced by some of the historically default values for their associated runtime settings. Among these settings, `magic_quotes_gpc` and `register_globals` configuration directives are the best known; the latter made any URL parameters become PHP variables, opening a path for serious security vulnerabilities by allowing an attacker to set the value of any uninitialized global variables and interfere with the execution of a PHP script. Support for "magic quotes" and "register globals" has been deprecated as of PHP 5.3.0, and removed as of PHP 5.4.0.

Another example for the runtime settings vulnerability comes from failing to disable PHP execution for the directory where uploaded images are stored; leaving the default settings can result in execution of malicious PHP code embedded within the uploaded images. Also, leaving enabled the dynamic loading of PHP extensions in a shared web hosting environment can lead to security issues.

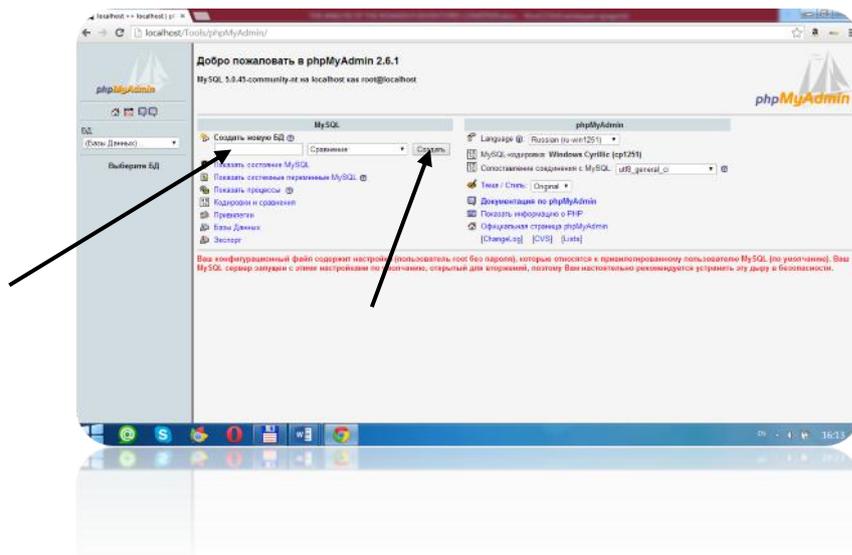
Here I want to show some researches creating the data base:

Step 1: first we have to start our “denwer”



2.1. 1-picture.

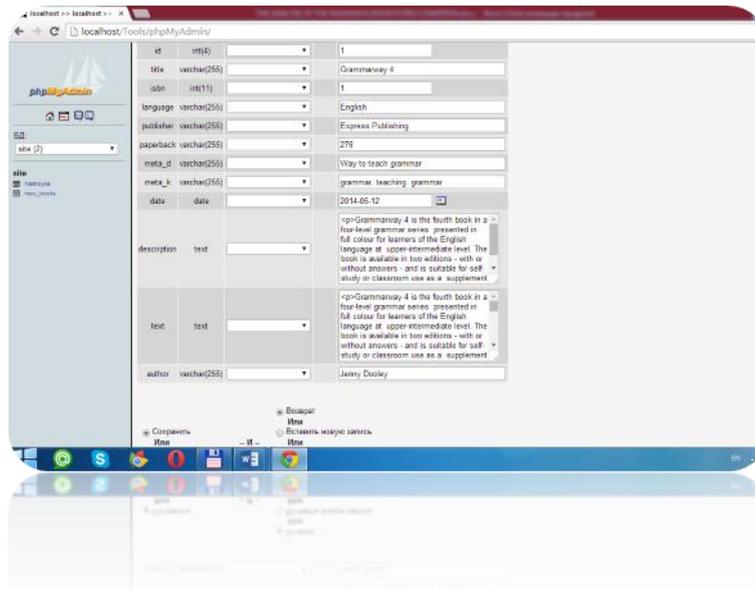
Step 2: go web browser and enter the <http://localhost/Tools/phpMyAdmin/>



2.1. 2-picture.

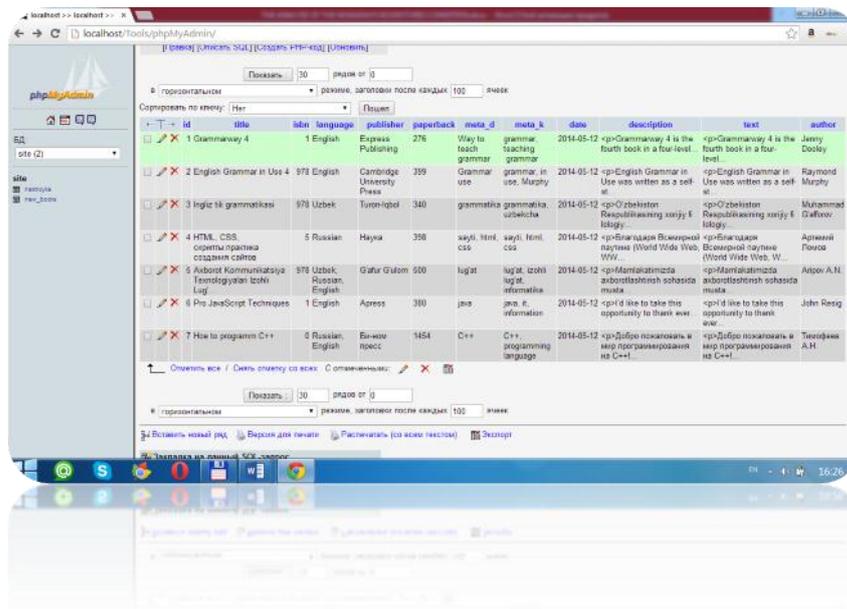
Step 3: create new base. As for me I create the “site” base for my bookshop

Step 4: then, create the table for your books which contains your base. There you can write some spheres, like “id of the book”, “title of the book”, “author of the book”, “key word for book”, “date on inserting book”, “publisher of the book”, “paperback of the book” and “full text of the book”.



2.1. 3-picture.

Step 5: and now, you need to fill all created spheres. After that you can get full created electron books catalogue, its dublincore and full text version



2.1. 4-picture.

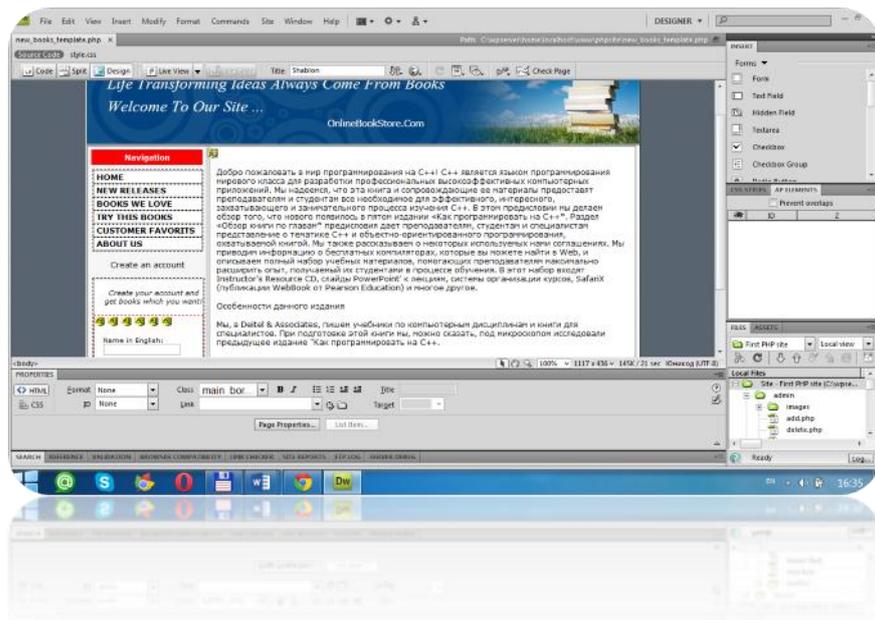
Step 6: to bind the data base with our web site, we write some php codes in our html code.

Step 7: we bind all section in our work

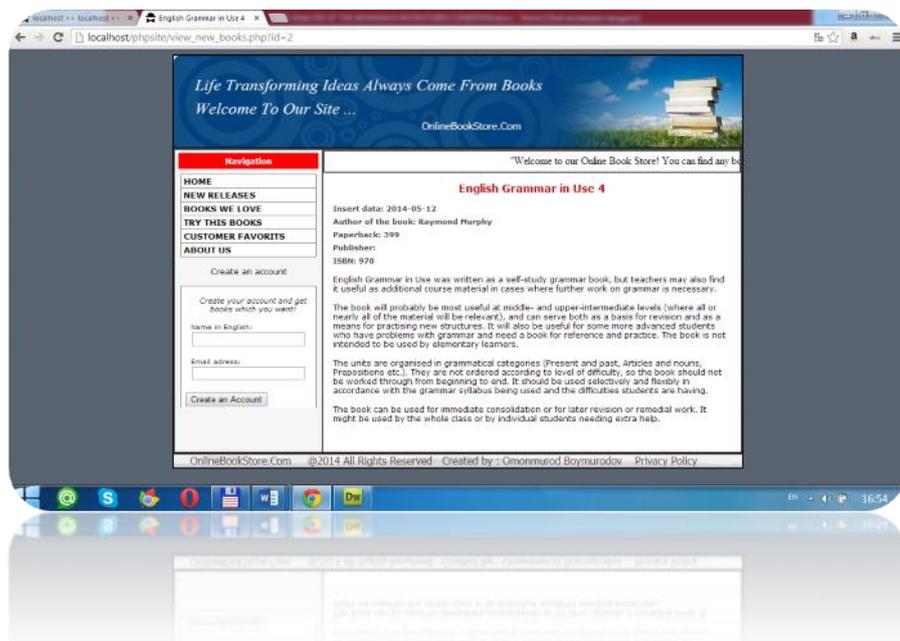
```
<?php echo $myrow['text']; ?>
```

```
<?php echo $myrow['meta_d']; ?>
```

```
<?php echo $myrow['meta_k']; ?>
```



2.1. 6-picture



2.1. 7-picture

2.2. Electronic bookshops' data base and its algorithms creation

Add new e-books searching system algorithm

Every step in online bookstores like taking whole electronic version or for booking some books from online bookshop, you have to defeat two operations: sample search and complex search.

Sample search – title of the book, name of the author, publishing house name, published year of the book, bibliography details, searching completed and booking searching results.

Complex search - in the complex we combine the bibliographic descriptions to help with the logical operations and create the “word” which is to help to the search and book the book we want.

Now we will see the algorithm of the sample and complex search on buying books from the online bookstores. Firstly, let's see what is the “algorithm”? Why do we need it? Where we can use it and why?

Algorithm

In mathematics and computer science, an algorithm is a step-by-step procedure for calculations. Algorithms are used for calculation, data processing, and automated reasoning.

An algorithm is an effective method expressed as a finite list of well-defined instructions for calculating a function. Starting from an initial state and initial input the instructions describe a computation that, when executed, proceeds through a finite number of well-defined successive states, eventually producing "output" and terminating at a final ending state. The transition from one state to the next is not necessarily deterministic; some algorithms, known as randomized algorithms, incorporate random input.

Though al-Khorasmi's algorithm referred to the rules of performing arithmetic using Hindu–Arabic numerals and the systematic solution of linear and quadratic

equations, a partial formalization of what would become the modern algorithm began with attempts to solve the Entscheidungs problem (the "decision problem") posed by David Hilbert in 1928. Subsequent formalizations were framed as attempts to define "effective calculability" or "effective method"; those formalizations included the Gödel–Herbrand–Kleene recursive functions of 1930, 1934 and 1935, Alonzo Church's lambda calculus of 1936, Emil Post's "Formulation 1" of 1936, and Alan Turing's Turing machines of 1936–7 and 1939. Giving a formal definition of algorithms, corresponding to the intuitive notion, remains a challenging problem.

In Algorithm, has many functions like:

- Formalization;
- Implementation;
- Computer algorithms;
- Algorithmic analyses;
- Classification

To express the algorithms that we create, we usually use the “flow charts”.

Flowcharts are used in designing and documenting complex processes or programs. Like other types of diagrams, they help visualize what is going on and thereby help the people to understand a process, and perhaps also find flaws, bottlenecks, and other less-obvious features within it. There are many different types of flowcharts, and each type has its own repertoire of boxes and notational conventions. The two most common types of boxes in a flowchart are:

- a processing step, usually called activity, and denoted as a rectangular box
- a decision, usually denoted as a diamond.

A flowchart is described as "cross-functional" when the page is divided into different swimlanes describing the control of different organizational units. A

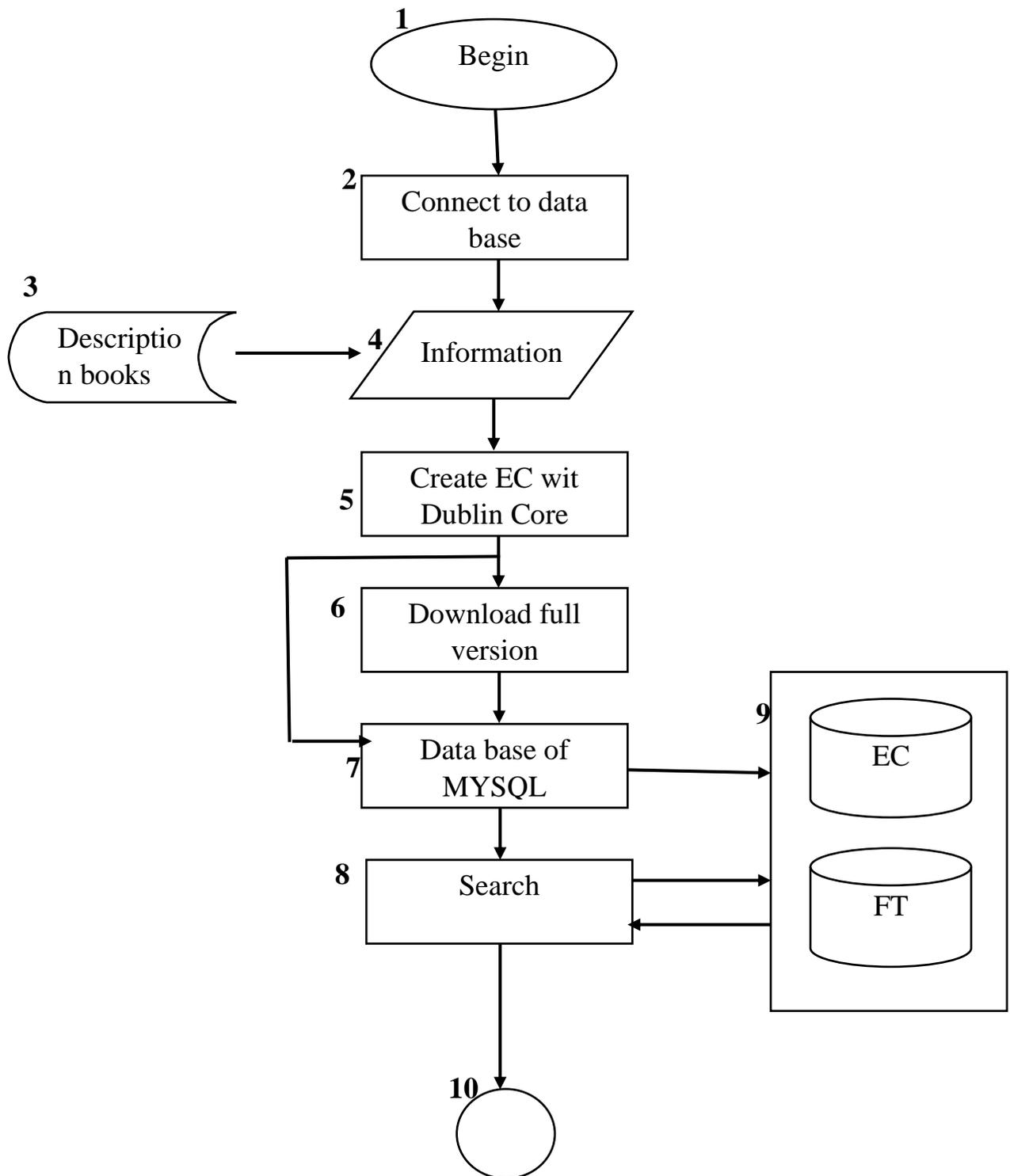
symbol appearing in a particular "lane" is within the control of that organizational unit. This technique allows the author to locate the responsibility for performing an action or making a decision correctly, showing the responsibility of each organizational unit for different parts of a single process.

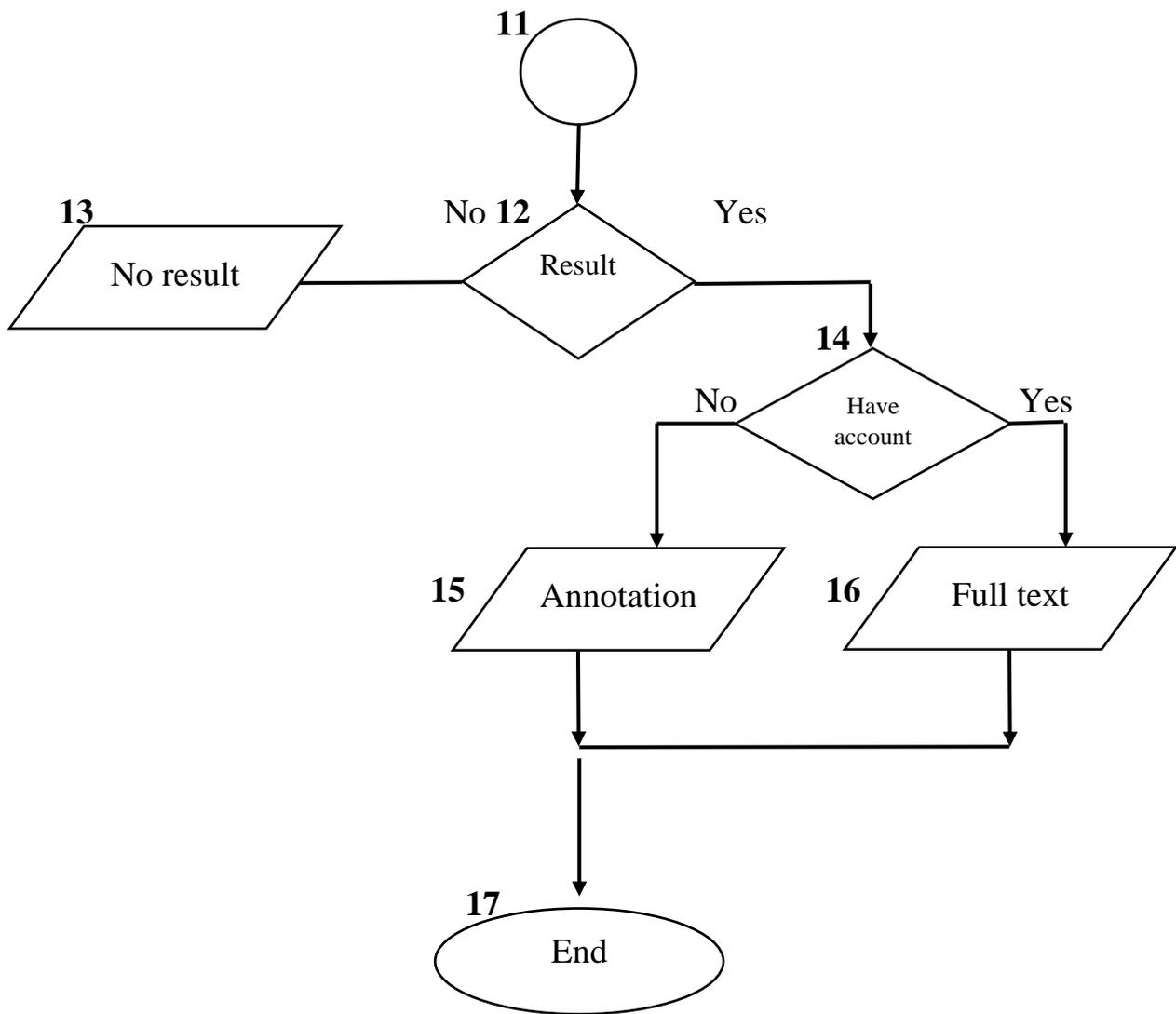
Flowcharts depict certain aspects of processes and they are usually complemented by other types of diagram. For instance, Kaoru Ishikawa defined the flowchart as one of the seven basic tools of quality control, next to the histogram, Pareto chart, check sheet, control chart, cause-and-effect diagram, and the scatter diagram. Similarly, in UML, a standard concept-modeling notation used in software development, the activity diagram, which is a type of flowchart, is just one of many different diagram types.

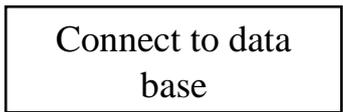
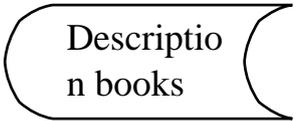
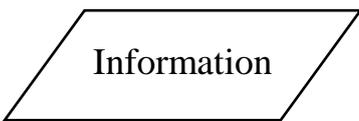
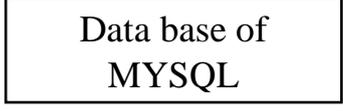
Nassi-Shneiderman diagrams and Drakon-charts are an alternative notation for process flow.

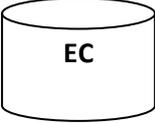
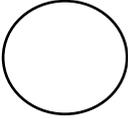
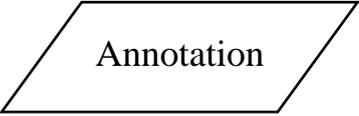
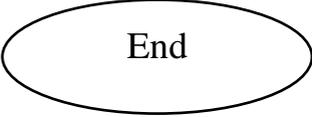
Common alternative names include: flowchart, process flowchart, functional flowchart, process map, process chart, functional process chart, business process model, process model, process flow diagram, work flow diagram, business flow diagram. The terms "flowchart" and "flow chart" are used interchangeably.

Algorithm of the searching books from internet

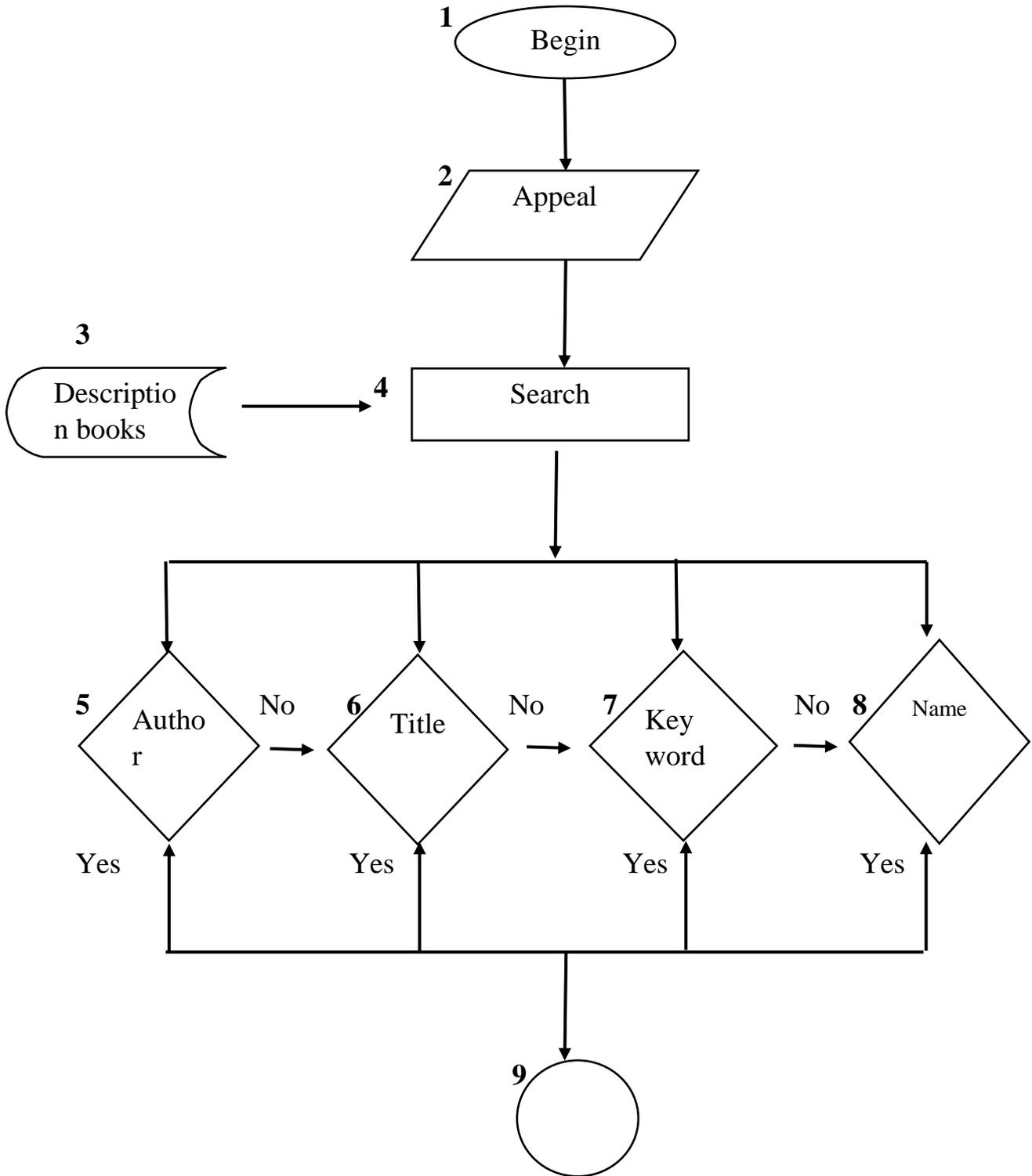


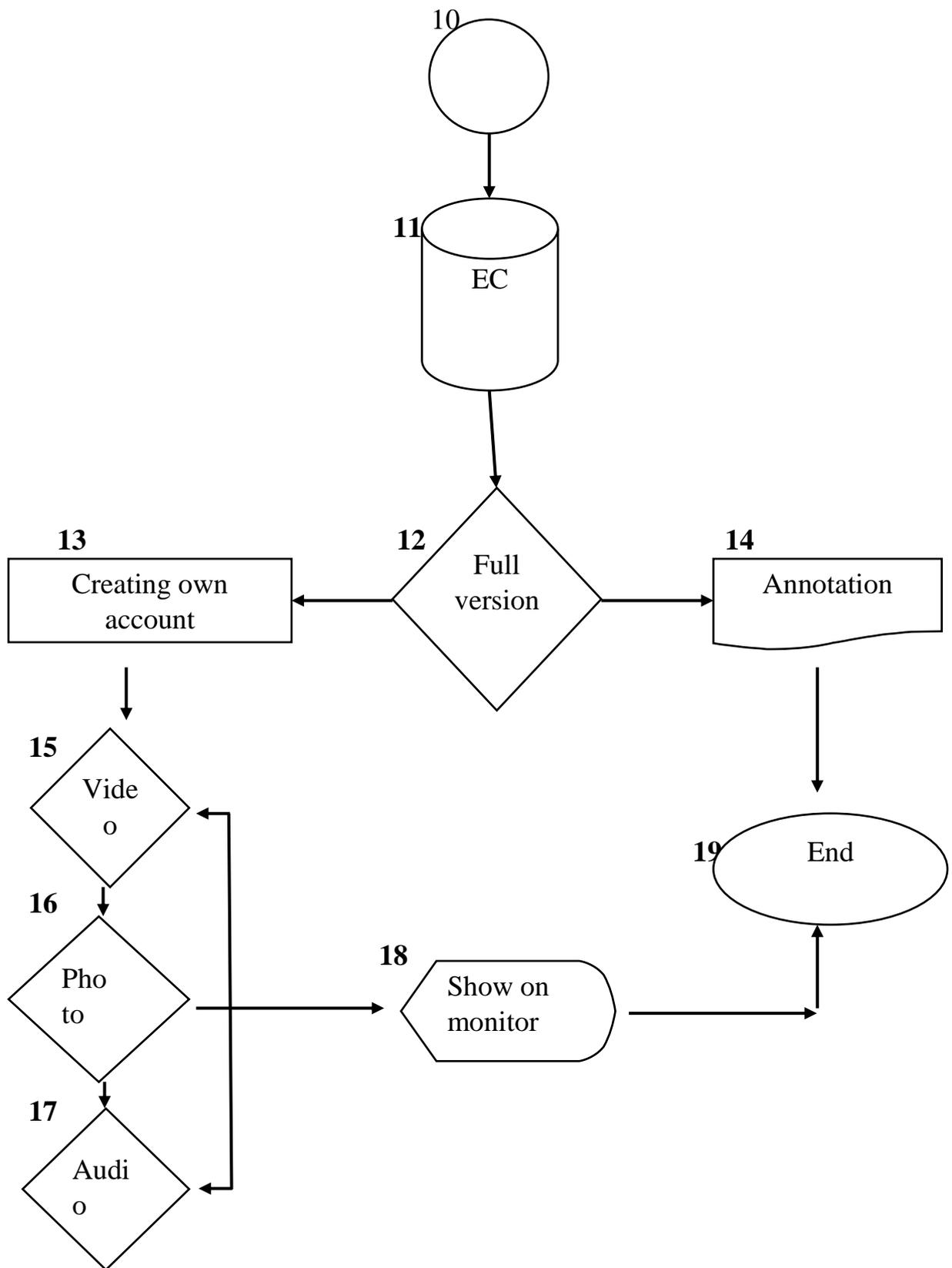


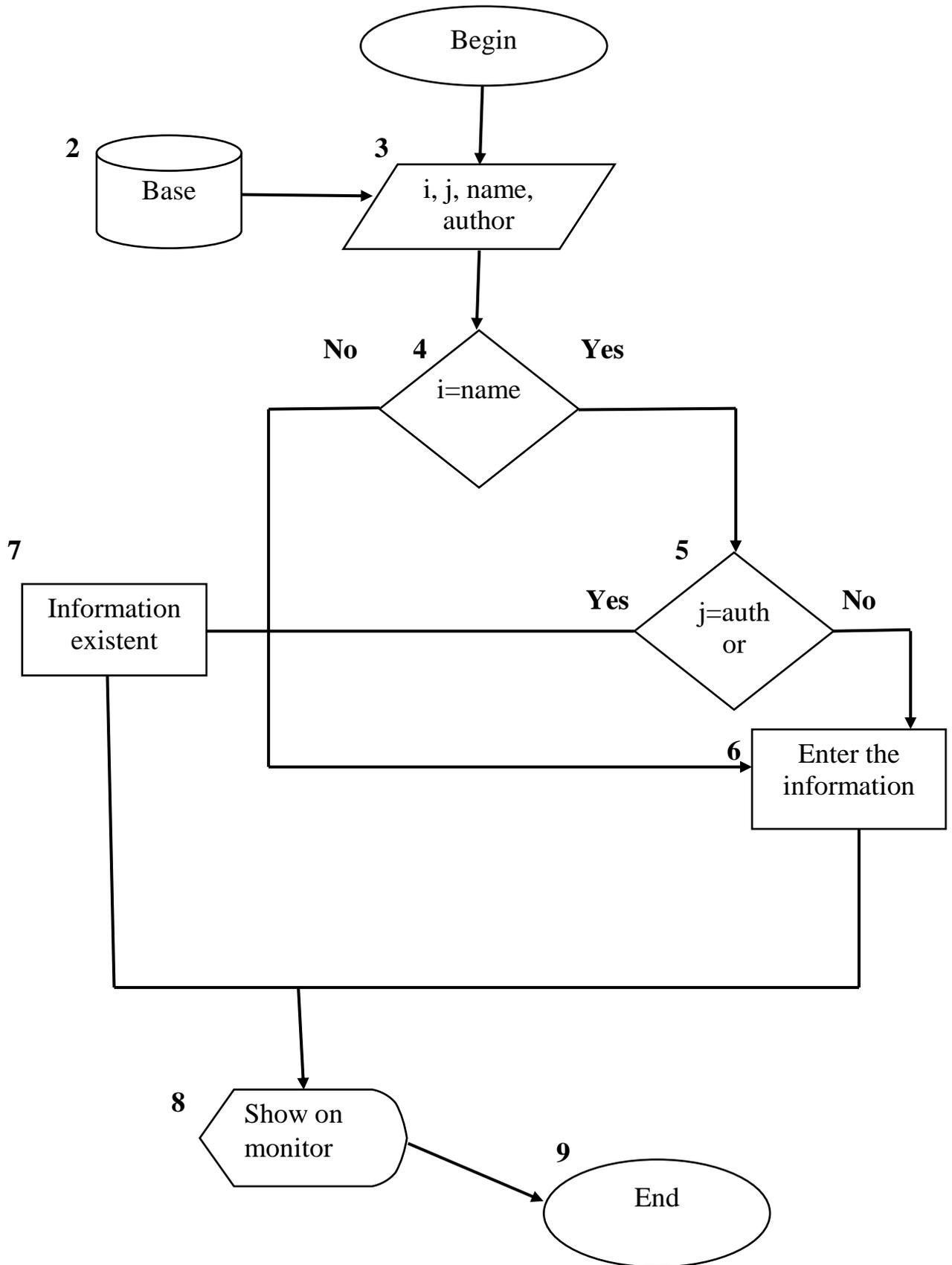
№	Shape name	Description of the shape
1	<p style="text-align: center;">Terminal or Terminator Shape</p> 	<p>This shape tells you where the flowchart begins and ends. It shows the entry point of your flowchart and the exit point. To designate the start of your flowchart, you would fill this shape with words like Start or Begin. The words you use are up to you.</p>
2	<p style="text-align: center;">Rectangle</p> 	<p>In most flowcharts, the rectangle is the most common shape. It is used to show a process, task, action, or operation. It shows something that has to be done or an action that has to be taken. The text in the rectangle almost always includes a verb. Here, it operated connection to data base.</p>
3	<p style="text-align: center;">Stored Data</p> 	<p>This shape represents stored data. The data may be stored on a hard drive, magnetic tape, memory card, of any storage device. Here it shows books' EC and their descriptions.</p>
4	<p style="text-align: center;">Input/Output</p> 	<p>A parallelogram is used to show input or output. Examples of input are receiving a report, getting an e-mail, getting an order, receiving data in some format, etc. Examples of output are generating a report, sending an e-mail, faxing a message, etc. And here the parallelogram is input information from the stored data.</p>
5	<p style="text-align: center;">Rectangle</p> 	<p>In this part rectangle is used to create e-books Electron Catalogues with helping Dublin Core.</p>
6	<p style="text-align: center;">Rectangle</p> 	<p>And then we download full version of the book from the internet for improving our online bookstores data base. After that users can easily get full version of the books.</p>
7	<p style="text-align: center;">Rectangle</p> 	<p>After completing the Electron catalogue, we add the e-catalogue in our MySQL data base.</p>
8	<p style="text-align: center;">Rectangle</p> 	<p>We can search the book from the online bookstore. If the there has any information it will show in our pc monitor.</p>

9	<p style="text-align: center;">Database</p> 	<p>A cylinder represents a data file or database. This shape can also represent the magnetic disc itself. A hard drive is referred to as direct access storage since any sector on the drive can be accessed. A tape is sequential access storage as the data has to be read sequentially. We can search the EC and FT from our data base.</p>
10	<p style="text-align: center;">Circle</p> 	<p>If you need to connect to another page or another section of the chart, and can't draw a line, you can use a circle. You draw the line to the circle and label the circle with a letter. Then you place a copy of the circle where you want the flow to continue. This should be avoided, but sometimes is necessary. Originally the circle was used only to reference another part of the chart and the off page connector, shown later, was used to go to another page. However, the circle is now often used for both.</p>
11	<p style="text-align: center;">Decision</p> 	<p>A decision asks a question. The answer to the question determines which arrow you follow out of the decision shape. For example, in the shape below, if it is cloudy, you follow the arrow down near the word Yes. If it is not cloudy, you follow the arrow to the right near the word No.</p> <p>Here user get the result but if he/she has not create his/hers account he/she can not get full text</p>
12	<p style="text-align: center;">Input/Output</p> 	<p>If user has no account he can only get the annotation of the book on output shape.</p>
13	<p style="text-align: center;">Terminal or Terminator Shape</p> 	<p>This shape tells you where the flowchart begins and ends. It shows the entry point of your flowchart and the exit point. To designate the start of your flowchart, you would fill this shape with words like Start or Begin. The words you use are up to you.</p>

Algorithm of the searching books with its name, author, title and key words







Conclusion

This chapter is the preparing chapter for the following chapter. We will see this at the end of the chapter. In the following chapter I will write functional and organizational structure, the exploitation of creating site.

In the 2nd chapter I prepare my base of program with helping algorithms. I created three algorithms: for searching information, adding information and searching for its functions. In the first section of the site I wrote some information how to create e-book base and using and installing MySQL in your laptop.

III. FUNCTIONAL AND ORGANIZATIONAL STRUCTURE AND IMPLEMENTATION OF THE ONLINE BOOKSTORE

3.1. Functional and Organizational structures of the online bookstore

An organizational structure defines how activities such as task allocation, coordination and supervision are directed towards the achievement of organizational aims. It can also be considered as the viewing glass or perspective through which individuals see their organization and its environment.

Organizations are a variant of clustered entities.

An organization can be structured in many different ways, depending on their objectives. The structure of an organization will determine the modes in which it operates and performs.

Organizational structure allows the expressed allocation of responsibilities for different functions and processes to different entities such as the branch, department, workgroup and individual.

Organizational structure affects organizational action in two big ways. First, it provides the foundation on which standard operating procedures and routines rest. Second, it determines which individuals get to participate in which decision-making processes, and thus to what extent their views shape the organization's actions

A functional organizational structure is a structure that consists of activities such as coordination, supervision and task allocation. The organizational structure determines how the organization performs or operates. The term organizational structure refers to how the people in an organization are grouped and to whom they report. One traditional way of organizing people is by function. Some common functions within an organization include production, marketing, human resources, and accounting.

This organizing of specialization leads to operational efficiency where employees become specialists within their own realm of expertise. The most typical problem with a functional organizational structure is however that communication within the company can be rather rigid, making the organization slow and inflexible. Therefore, lateral communication between functions become very important, so that information is disseminated, not only vertically, but also horizontally within the organization. Communication in organizations with functional organizational structures can be rigid because of the standardized ways of operation and the high degree of formalization.

As a whole, a functional organization is best suited as a producer of standardized goods and services at large volume and low cost. Coordination and specialization of tasks are centralized in a functional structure, which makes producing a limited amount of products or services efficient and predictable. Moreover, efficiencies can further be realized as functional organizations integrate their activities vertically so that products are sold and distributed quickly and at low cost.^[11] For instance, a small business could make components used in production of its products instead of buying them.

Even though functional units often perform with a high level of efficiency, their level of cooperation with each other is sometimes compromised. Such groups may have difficulty working well with each other as they may be territorial and unwilling to cooperate. The occurrence of infighting among units may cause delays, reduced commitment due to competing interests, and wasted time, making projects fall behind schedule. This ultimately can bring down production levels overall, and the company-wide employee commitment toward meeting organizational goals.

The flat structure is common in small companies (entrepreneurial start-ups, university spin offs). As companies grow they tend to become more complex and hierarchical, which leads to an expanded structure, with more levels and departments.

However, in rare cases, such as the examples of Valve Corporation, GitHub, Inc. and 37signals, the organization remains very flat as it grows, eschewing middle managers. All of the aforementioned organizations operate in the field of technology, which may be significant, as software developers are highly skilled professionals, much like lawyers. Senior lawyers also enjoy a relatively high degree of autonomy within a typical law firm, which is typically structured as a partnership rather than a hierarchical bureaucracy. Some other types of professional organisations are also commonly structured as partnerships, such as accountancy companies and GP surgeries.

Often, growth would result in bureaucracy, the most prevalent structure in the past. It is still, however, relevant in former Soviet Republics, China, and most governmental organizations all over the world. Shell Group used to represent the typical bureaucracy: top-heavy and hierarchical. It featured multiple levels of command and duplicate service companies existing in different regions. All this made Shell apprehensive to market changes, leading to its incapacity to grow and develop further. The failure of this structure became the main reason for the company restructuring into a matrix.

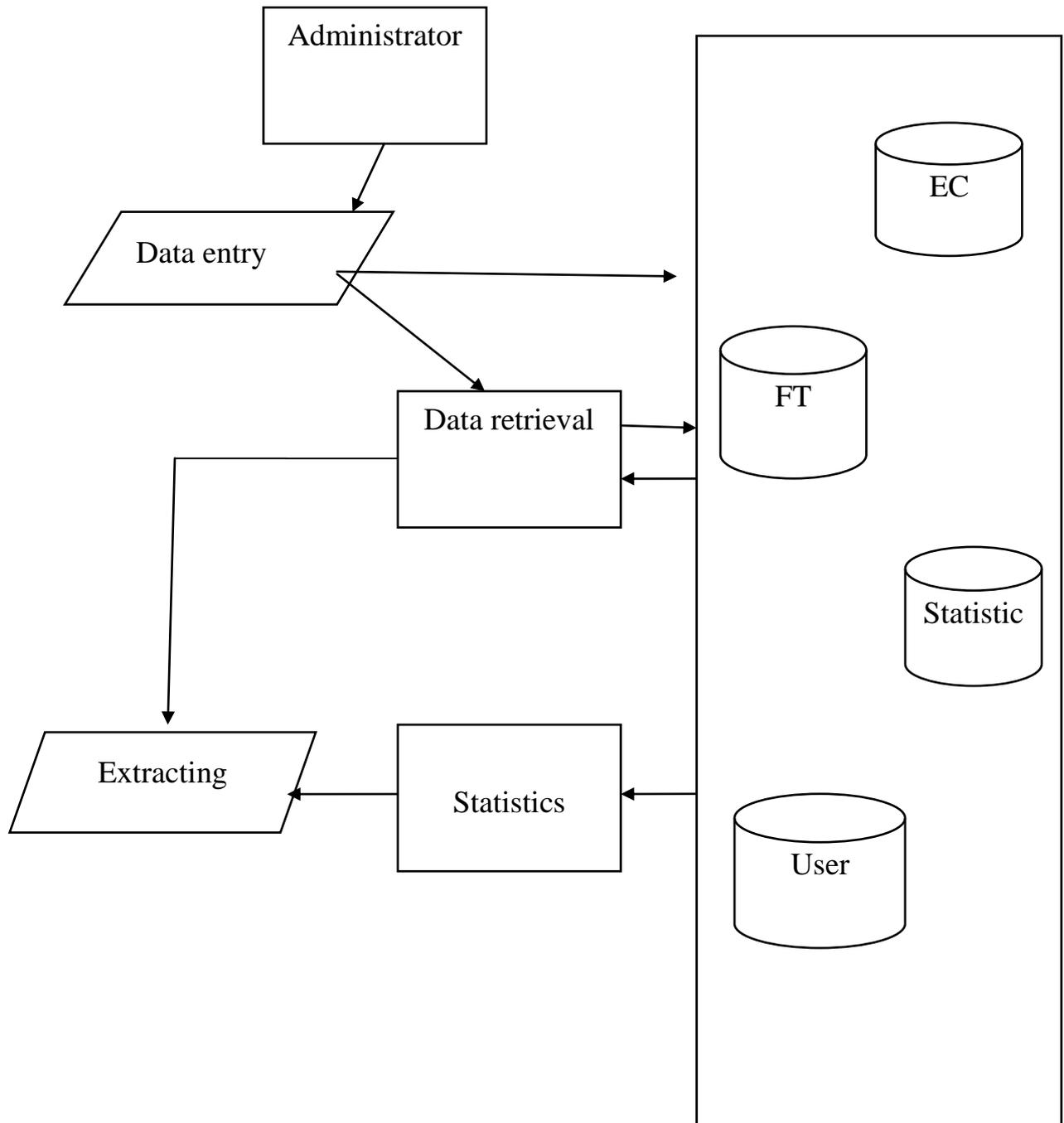
Starbucks is one of the numerous large organizations that successfully developed the matrix structure supporting their focused strategy. Its design combines functional and product based divisions, with employees reporting to two heads.^[14] Creating a team spirit, the company empowers employees to make their own decisions and train them to develop both hard and soft skills.

Some experts also mention the multinational design, common in global companies, such as Procter & Gamble, Toyota and Unilever. This structure can be seen as a complex form of the matrix, as it maintains coordination among products, functions and geographic areas.

In general, over the last decade, it has become increasingly clear that through the forces of globalization, competition and more demanding customers, the

structure of many companies has become flatter, less hierarchical, more fluid and even virtual.

Functional structure



Administrator. In this section administrator manage to do everything he want.

Insert Informations. You have to insert all needed informations: author, title, full text or information about searching full text.

Searching. After inserting needed informations, search them from EC or FT.

Statistics. In this section, you can take the number of users and theirs trade from online bookstore.

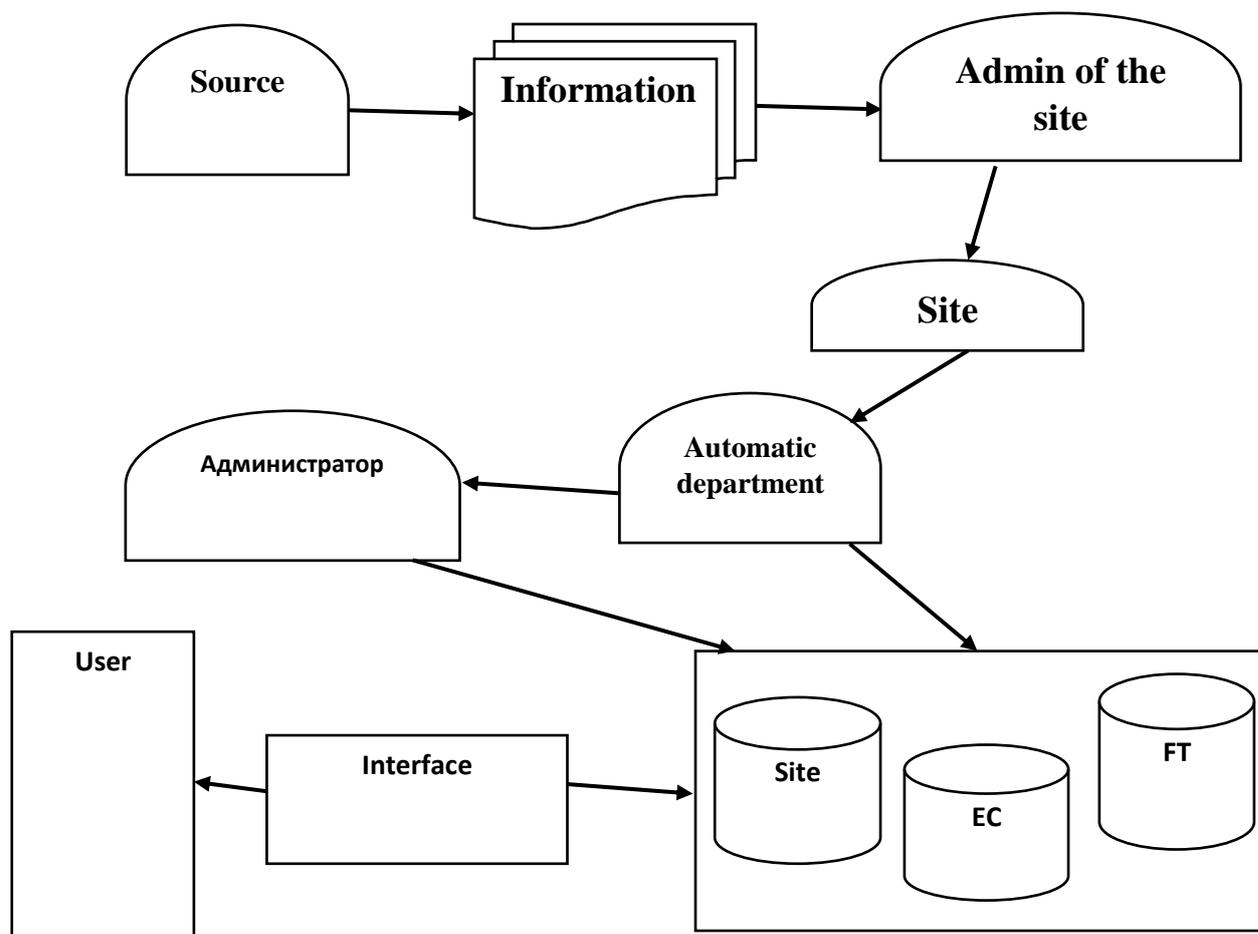
Extracting informations. Extracting searching informations. For instance: how many users using from this site, their tournament, used informations and so on.

EC- Electron catalogue

FT- Full text

The Divisional structure or product structure is a configuration of an organization, which breaks down the company into divisions that are self-contained. A division is self-contained and consists of a collections of functions which work to produce a product. It also utilizes a plan to compete and operate as a separate business or profit center. According to Zainbooks.com, divisional structure in America is seen as the second most common structure for organization today.

Organizational structure



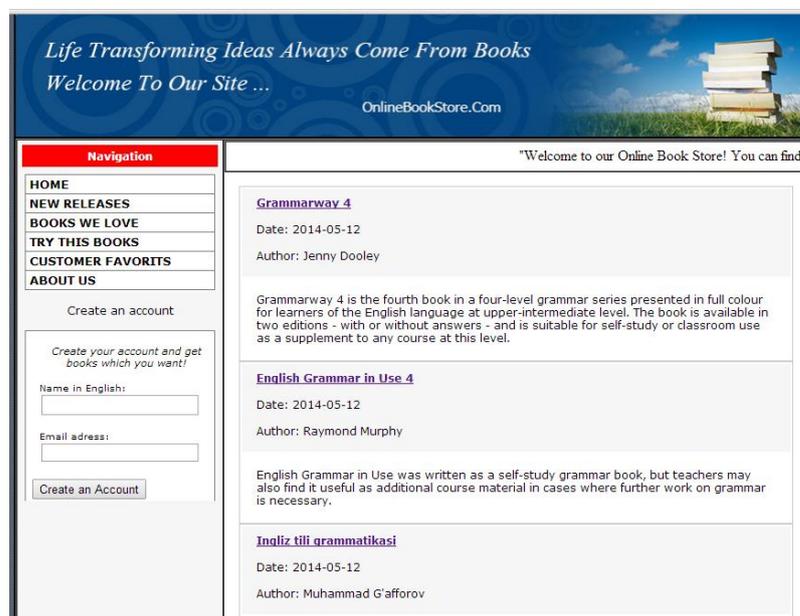
1. **Administrator of the site** – collect the information which is need for users of the online bookstore. And he add and confirm the information. In addition to this, he create the electron catalogue.

2. **Automatic department** – get the digital information from administrator. And he classify information. After that he divide information.

3. **Data base of electron catalogue and full text** are the main fund of the online bookstore.

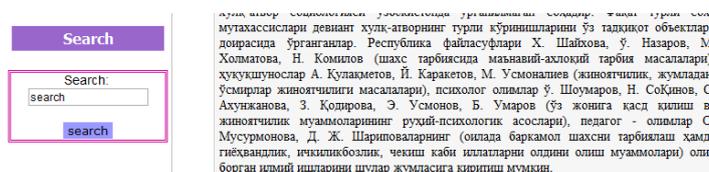
3.2. Exploitation of the created site and its using guide

Main menu. To go to the desired section, click on the corresponding icon. In the "New releases" you will find a complete list of new books, published announcements of fresh revenue publications, presented at site. Section "Books we loved" you will find a list on the site book which users' most loved books. "Try this book" section placed recommended books. "Customers favourit" contains most downloaded and viewed books. Section "About us" you're currently get information about us, and how to connect with us.



3.2. 1-picture

Site Search. In the upper right corner of the search form on the site. Enter a word or phrase you want to find and click on the "search" button. You can also specify search settings, or use the advanced search allows you to define more criteria, so you get more accurate results.

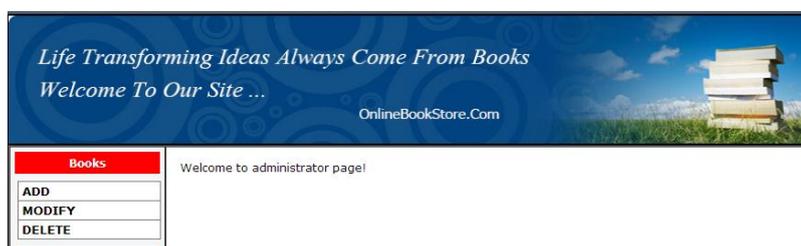


3.2. 2-picture.

Favorites. Below the main menu is a menu "Favorites." In order to be able to use the "Favorites", you need to sign in by clicking on the icon "Login" or register by clicking on the icon "Register". More information about registration will be discussed in the appropriate section.

Under "Settings" you can choose you are interested in sports, then click "Save Changes." To remove a selected sport in the drop-down list, select the empty box, and then click "Save Changes." Also in the configuration section you can choose one or several languages. After that, the site will display only the documents in the selected language or languages.

In the folder "Favorites" you can store all the documents that you seemed interesnyimi. Dlya this go to any section of the system and click on the "Favorites" next to the desired document.



3.2. 3-picture.

Sources and documents. Under the menu "Favorites" is a list of popular sources. If you want to view all sources, click on "All". After selecting the source, you will see a list of documents. To view a brief summary, then click on "Summary".

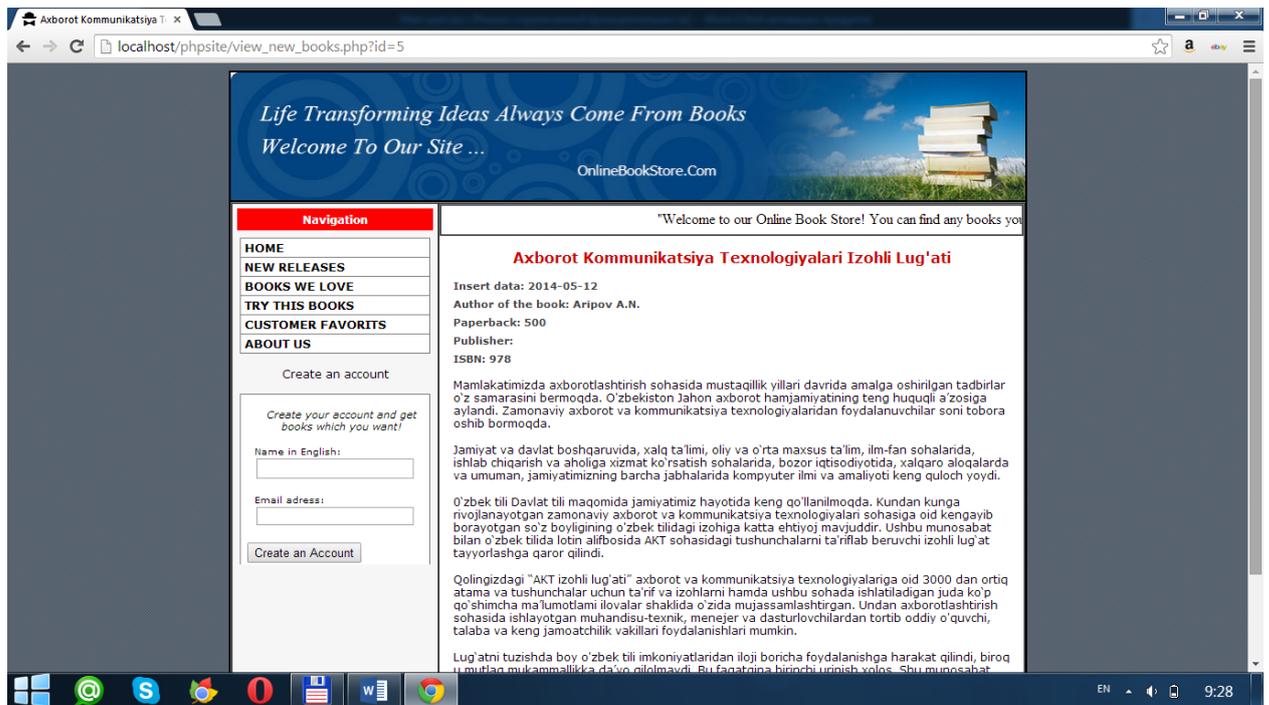
To switch between the pages of the document list, click on the page number before or after the list of documents you are interested nego. Chtoby open document, click on the document title. At the top of the page mozhnovybrat all documents relating to the sport, select all documents pertaining to the region;

select all the documents related to this istochniku. V left chastistranitsy can set up filters documents:

For periodicals select Year and number of publication;

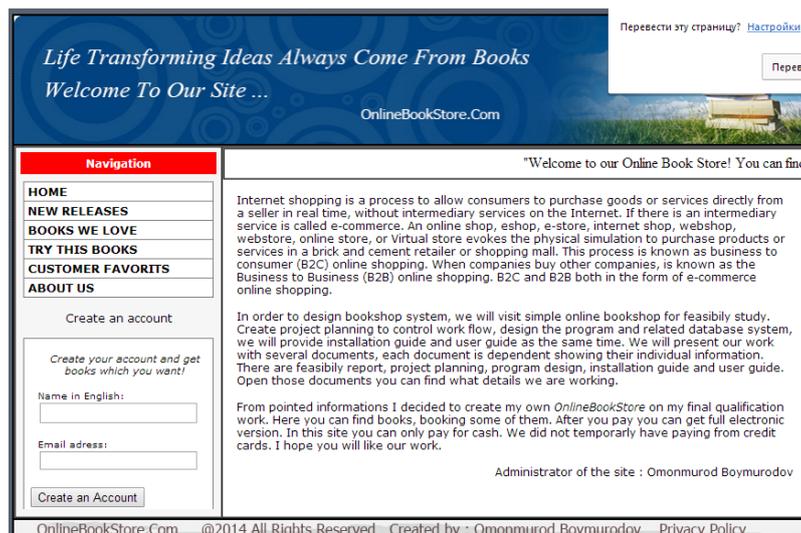
- Select the desired category;
- Select the desired Sports;
- Select the desired region;
- Select the desired tags;
- Show tolkopolnotekstovye issues;
- Show only issues in book format;
- Show only the documents in the selected languages;
- Show documents in the last day / week / month / year;
- Show only issues in the public domain;

Central unit. In the center of the main pages are advertising blocks popular magazines, newspapers, and books. To select the desired publication hover over a block - navigation arrows will appear. Using the navigation arrows to select the desired publication and click on the title.



3.2. 4-picture.

Format "book." Format "book" - a modern and convenient format for displaying magazines, books and newspapers. If the right of the title of the article you see the icon, then this article is available as a "book." Click on the icon, and the book will open in a new window. To work format "book" you need to install the player FlashPlayer. The latest version of the player can be attributed from Adobe.



3.2. 5-picture.

Conclusion

This chapter is the main chapter of the final qualifying work. In this chapter I created functional structure and organizational structure of creating online bookstore. In this chapter I created my site and wrote its interface. At the end of the chapter I wrote some information about my online bookstore. After that I wrote some using guide for my online bookshop.

IV. TECHNICAL SAFETY AND WORK DEFENCE IN INFORMATION LIBRARY

4.1. Rational organization of work place

The complexity of production processes and equipment changed the functions of the person in modern industry: increased responsibility of tasks; increased volume of information perceived by the working and the performance of the equipment. A person's work has become more difficult, increased load on the nervous system and increased physical load. In some cases, the man has become the least reliable link of the system «man-machine». There is a task of providing reliability and safety of persons at work. Solves this task ergonomics and engineering psychology.

Ergonomics (from the Greek ergon work and nomos - law) is the scientific discipline that studies the human in terms of its activities related to the use of machines. The goal of ergonomics - optimization of conditions of work in the system "man-machine". Ergonomics defines the requirements of the person to technology and to the conditions of its functioning. The ergonomics of the equipment is the most generalized index of properties and other characteristics of equipment.

The connection of the man with the environment and the parameters of the workplace. Working place, this is the area in which the committed work of the performer or group of performers. Jobs may be individual and collective, universal, specialized and special.

General requirements, which must be observed when designing jobs, the following:

- adequate working space for the person;
- optimum position of the body of the worker;
- sufficient physical, visual and auditory communication between man and machine;

- optimal allocation of working space in the room;
- the permissible level of action of factors of production conditions;
- the optimal placement of the information and the motor field;
- availability of means of protection from hazards.

Design should provide the zone of optimum and easy reach of the motor field of the workplace and the optimal area of the information field of the workplace. Angle of view in relation to the horizontal should be 30-40 degrees. The choice of working arrangements should take into account the efforts expended by the man, the magnitude of the movements, the need for movement, the pace of operations. The choice of working postures should take into account the physiology of man and parameters of working places determined by the choice of the position of the body at work (standing, sitting, a variable). Jobs for work «sitting» are organized in an easy job and middle severity, and the severe - working posture - "standing".

In the design of equipment and organization of a job it is necessary to foresee the possibility of regulating the individual elements, in order to ensure the optimum position of the operator.

The design of the equipment must ensure that it meets the anthropometric and bio mechanical characteristics of the individual on the basis of accounting change dynamics of the amount of heat when you move, the range of motion in joints.

For the account in the design of equipment anthropometric data should:

- determine the contingent of people for whom is designed equipment;
- select a group of anthropometric characteristics;
- install the percentage of working, which must meet the equipment;
- determine the boundaries of the interval size (efforts), which should be implemented in the hardware.

When designing the use anthropometric dimensions of the body, and take into account the differences in the sizes of the body of men and women, nationality, age, professional. To determine the boundaries of the intervals, which

take account of the percentage of the population, the system is used pertseteley. Design of the equipment should provide the ability to use at least for 90% of consumers.

To work in a position "sitting" are used by various operating seats. Distinguish workers seat for long and short term use. General requirements for the seat of long use of the following: the seat should ensure position, minimizing the statistical work of muscles; create conditions the possibility of changes in working postures; not to obstruct the activities of the systems of the body; to ensure the free movement relative to the working surface, have adjustable parameters; have the floor upholstery. For short-term use is recommended hard chairs and a different type of stools.

In the conditions of growing mechanization and automation of production processes is of special significance means of display of the information about the object of management. Widespread use of the received information model, that is organized according to certain rules information about the status of the object of control.

The information models of the following requirements:

- the content of the information model should adequately display the object of management;
- information model should provide the best information balance;
- the shape and composition of the information of the model must be consistent with the labor process and possibilities of man for the reception of the information.

Practice makes it possible to outline the sequence of the development of an information model: definition of the objectives of the system, the sequence of their decisions and sources of information; drawing up a list of control objects and their characteristics; the distribution of objects on the degree of importance; the distribution of functions between automation and man; the choice of coding of objects and drawing up of the overall composition models; determination of Executive actions of man.

In the process of constructing information model are determined by the location of the media in the workplace, are selected dimensions of marks and the layout of. Displaying means are placed in the field of view of an observer with the account of optimum corners and observation areas. Dimensions signs monitoring are determined taking into account maximum accuracy and speed of perception of the information, as well as the brightness of the character, magnitude contrast, the use of color. Optimum brightness are considered to be the value at which the maximum contrast sensitivity. The value of it will be greater, the smaller the size of the object of discrimination. Optimal area size contrast is 60-90%. In the work of the eyes is a place of a certain inertia, which requires taking into account the time of exposure of the optic signal and the time intervals for the sense of separate signals the following one after the other. In most cases, the exposure time of the signal should be no less than 50 MS. Each variety of indicators has its area of use: indicators backlit used for the display of high-quality information that requires an immediate response of the operator; gauges are used for the reading of the measured parameters; integral indicators for combining information immediately on several parameters.

The structure and dynamics of the controlled object are usually with the help of a chip. In some cases the scoreboard used to display information and perception of the team of operators.

In the design of the workplace should take into account the rules of the economy's movements: when using two hands of their motion should be simultaneous and balanced; movement should be smooth and rounded, rhythmic and customary for working. The design of the equipment shall take into account the rules relating to the speed and accuracy of workers ' struggles. For example, the most rapid movement to itself; in the horizontal plane of the hand speed more than in the vertical; the accuracy of movements better in a sitting position, than standing, etc. Controls, used in the workplace must comply with the General requirements of ergonomics: and direction of the management bodies must comply with the movement associated with him indicator; the compliance of the location

of the management bodies of the sequence of work of the operator; ease of use; the creation of the bodies of the Board of mechanical resistance and etc. In addition, for each type of bodies of pressure corresponds to a specific area of use and the special requirements of the size, form, effort, etc.

The automated workplace of the operator-Communicator (the operator in the control room) in the General case are used:

- means of mapping the information of individual use (imaging units, signaling devices, and so on);
- means of control and input of information (remote the display, keyboard control, separate controls, and so on);
- devices of communication and transmission of information (modems, telegraphic and telephone sets):
- the device documentation and storage of information (printing devices, magnetic recording and so on);
- auxiliary equipment (means of office equipment, the storage media, the device of local lighting).

At the automated working place should be provided with information and constructive compatibility used by technical means, of anthropometric and physiological characteristics of the person.

At optimization of the procedures of interaction between operators of telecommunications workers with technical means in the conditions of automation ergonomic factors act as the main determining the probability-time characteristics and the intensity of the work. These factors are sensitive to variations of individual properties of the operator.

Working the furniture should be comfortable for the execution of planned operations. The design of the working furniture: table, chairs is of great importance for the creation of healthy environments and highly productive work. Working the furniture is designed with consideration of anthropometric data of a human, technical, aesthetic and economic factors.

In the complete set of the working furniture of great importance is the design of the production of a chair, as it depends on the attitude of the employee and, therefore, energy consumption and the degree of its strain. Operating the seat must have the required dimensions, the relevant anthropometric data of the person and be flexible. The most comfortable chairs and seats with adjustable back tilt and height of seat. Changing the height of the seat from the floor and back angle, you can find the most appropriate labour process and the individual characteristics of the employee.

As a rule, all the surface of the written and desktops should be at the level of the elbow in the position of a person. When choosing the height of the table should be considered a man sits during work or stands.

The inconvenient of the table height reduces the efficiency of work and causes rapid fatigue. The lack of sufficient space for the knees and feet cause constant irritation of the employee. Minimum operating table height should be not less than 725 mm. As practice shows, for the working medium height the height of the desktop is accepted 800 mm. For the employee of another growth you can change the height of the working chair, or the position of the boards so that the distance from the object processing before the eyes of the working height is equal to approximately 450 mm.

Accommodation of the technical means and the chair of the operator in the working zone should provide easy access to the main functional nodes and units of equipment for conducting technical diagnostics, preventive inspection and repair; the ability to quickly occupy and to leave the work area; the exception of accidental actuation means of control and input of information; comfortable working posture and position of rest. In addition, the scheme of accommodation should meet the requirements of integrity, compactness and technical and aesthetic expressiveness of the working postures.

The display must be placed on a table or stand so that the distance of observation on the screen does not exceed 700 mm (optimal distance of 450 - 500 mm). Display screen height must be located so that the angle between the center of

the screen and horizontal line of sight was 200. Horizontal viewing angle of the screen should not exceed 600. The remote display to be placed on a desktop or stand so that the height of the keypad in relation to sex was 650 - 720 mm. When placing the remote control on a standard desktop height of 750 mm it is necessary to use the seat with height adjustable seat (450 - 380 mm) and the footrests. Document (form) for entry operator data it is recommended to have at a distance of 450 - 500 mm from the eyes of the operator, predominantly on the left, with the angle between display screen and the document in the horizontal plane shall be 30 40 degrees. The tilt angle of the keyboard should be equal to 15 degrees.

Display screen, documents and keypad display should be located so that the difference of brightness surfaces, depending on their location relative to the source of light, not more than 1:10 (the recommended value 1:3). At nominal values of brightness of the image on the screen 50 - 100 CD/m² illumination of the document should be 300 - 500 Lux.

Working place should be equipped in such a way that the movement of an employee would be the most efficient, least tedious.

The device documentation and other, rarely used by technical means, it is recommended to concentrate on the right from the operator in the zone of maximum reach and means of communication to the left, to free the right hand for the entries.

4.2. Psychophysiological load per person.

In the section of psychophysiological stress the most important is stress and fatigue.

Under stress is understood the emotional state that arises in response to all sorts of extreme exposure.

When stress ordinary emotions are replaced by anxiety, causing disturbances in physiological and psychological terms. This concept was introduced by Hans Selye to refer to non-specific response of the body to any adverse effects. His

research showed that the various adverse factors - fatigue, fear, hurt, cold, pain, humiliation, and more in the body cause the same kind of comprehensive response regardless of what kind of stimulus acts on it at the moment. Moreover, these stimuli need not exist in reality. A man reacts not only to the actual danger and the threat or reminder of her.

Human behavior in situations of stress is different from the affective behavior. Under stress a person can usually control their emotions, to analyze the situation, make appropriate decisions.

Currently, depending on the stress factor identify different types of stress, including the pronounced physiological and psychological. Psychological stress, in turn, can be divided into information and emotional. If a person is unable to cope with the problem, do not have time to make the right decisions at the required rate with a high degree of responsibility, ie, when there is information overload may develop informational stress. Emotional stress arises in situations of danger, resentment, etc. Hans Selye identified in the development of stress three phases. The first stage - the alarm reaction - the mobilization phase defenses, which increases the stability with respect to a particular traumatic stress. In this case, there is a redistribution of body reserves: our primary objective is due to minor problems. The second step - the stabilization of parameters derived from the balance in the first phase, fixed at a new level. Externally, the behavior is not very different from the norm, as if everything is adjusted, but internally is overrun adaptive reserves. If the stressful situation persists, there comes the third stage - exhaustion, which can lead to a significant deterioration of health, various diseases, and in some cases death.

Stages of development of the state of stress in humans:

- build-up of tension;
- proper stress;
- Reduction of internal tension.

In its first phase duration is strictly individual. Some people "plant" for 2-3 minutes, and another increase in stress can take place over several days or even

weeks. But in any case, the state and behavior of the person who is in stress, change pas' opposite sign. "

So, quiet reserved person becomes fussy and irritable, he may even become aggressive and violent. And the person in real life lively and agile, it becomes dark and taciturn.

In the first stage of stress weakens a person self-control: it gradually loses the ability to knowingly and intelligently regulate their own behavior.

The second stage of the stress state is manifested in the fact that man is a loss of effective self-conscious (full or partial). "The Wave" destructive stress damaging to the human psyche. He can not remember what he said and did, or be aware of their actions, rather vague and incomplete. Many then noted that under stress they have done that in a tranquil setting would not have done. Usually all later regret it very much.

Also, like the first, the second phase in duration strictly individual - from several minutes or hours - several days or weeks. Having exhausted its energy resources (achieving higher voltage observed when a person feels the devastation, fatigue and

Stress conditions significantly affect the activities of man. People with different features of the nervous system to react differently to the same psychological burden. In some people there is increased activity, mobilization of forces, improve business performance. On the other hand, the stress can cause disruption of the sharp reduction of its effectiveness, and total inhibition of inactivity.

Human behavior in a stressful situation depends on many factors, but primarily on the psychological preparation of a person, which includes the ability to quickly assess the situation, the instantaneous orientation skills in unexpected circumstances, a strong-willed discipline and determination, experience, behavior in similar situations.

Methods of dealing with stress

Stress - the feeling that one experiences when she believes that it can not effectively cope with the situation.

If the situation is causing stress depends on us, a more rational to focus on how to change it. If the situation is not up to us to accept and change your perception, your attitude to this situation.

In most situations, the stress goes through several stages.

1. Phase anxiety. This mobilization of energy resources of the body. Moderate stress useful in this step, it leads to higher efficiency.

2. Phase resistance. This is a balanced spending reserves. Outwardly, everything looks normal, people effectively solves the problems faced by them, but if this step takes too long and is not accompanied by relaxation, then, the body works hard.

3. Phase depletion (distress). Man feels weakness and fatigue, reduced performance, dramatically increases the risk of disease. Short time this can still fight at will, but then the only way to restore power - it's a solid rest.

One of the most common causes of stress - the contradiction between reality and perceptions of man.

Stress response is equally easy to run as real events, and existing only in our imagination. In psychology this is called "the law of the emotional reality of the imagination." As psychologists have calculated, about 70% of our experiences come about events that do not exist in reality, but only in the imagination.

By the development of stress can lead not only negative but also positive life events. When something changes dramatically for the better, the body also reacts to this stress.

Usually, the fatigue is understood the reduction in the workability caused by previous work, which has a temporary character. If it occurs during mental activity, talk about mental fatigue. State of fatigue is manifested in changes physiological processes, reducing productivity and techno-economic indicators, change in mental status.

Psychologists say that the development of fatigue, the person has a special psyche, which is called the fatigue - a subjective reflection arising in processes in the body, leading to fatigue. It appears long before the loss of productivity lies in the fact that there is a special experience painful stress and uncertainty. Manage feels that he could not continue to work properly. Thus there is a disorder of attention - in the development of fatigue, people are easily distracted, becomes sluggish, inactive, or, on the contrary, it appears chaotic mobility instability. There are disturbances in the sensory area - for fatigue changes work receptor, for example, there is a visual fatigue - decreased ability to process information coming through the visual analyzer, with the duration of manual work is reduced tactile and kinaesthetic sensitivity. Lead to abnormalities in the motor area: a slowing of movements, movements appear haste, rhythm disorder, weakening the accuracy and co-ordination of movements, de-automatization of movements. There are defects in memory and thinking, weakened the will, determination, endurance, self-control. With strong fatigue, somnolence.

Intensity of change depends on the depth of fatigue. For example, significant changes in mental status almost there, and with fatigue all these changes is extremely pronounced.

Due to changes in the mental state of a number of physiologists has isolated 3 stages of fatigue. Stage 1: When her with the feeling of fatigue significantly, labor productivity is not reduced. Stage 2 - characterized by a significant reduction of labor and severe mental changes. The third stage, which some scholars regard as acute fatigue, accompanied by the expression experience fatigue.

Utation can be physical (musclenym) or neuropsychiatric (central). Both forms of fatigue combined with hard work, and they can not be strictly separated from one another. Heavy physical work leads primarily to muscle fatigue, and enhanced mental functions or monotonous work is tiring of central origin. It should be a clear distinction between exhaustion and fatigue, caused need for sleep.

In addition, determine the primary Utition, which is developing quite rapidly at the beginning of the work shift and is a recognized com - insufficient consolidation of skills, it can be overcome in the process, resulting in an "second wind" - a significant increase workable STI. Secondary, slowly progressive fatigue actually tiringtion, which occurs after about 2.5-3 hours from the beginning of the work shift, and to remove it needs rest.

Fatigue or chronic fatigue - another type of fatigue. It is due to the lack of proper rest between each working day, is regarded as a pathological condition. Manifests the general decline in productivity, increased incidence, the slowdown in the cultural and technical level and skills of running, decreased creativity and mental capacity, changes in the cardiovascular system.

According to K.K Platonov are four degrees of fatigue restarting, lung, and severe, each of which requires appropriate methods of struggle. So, to relieve fatigue suf beginning precisely regulate the regime of work and rest. Mild fatigue optionally sary to wait for release and use it effectively. In marked overworked SRI urgent needs rest, better organized. In severe pereutomtion to treatment.

Conclusions to Chapter IV

In this Chapter I learn ergonomics and Psychophysiological load per person. I understood importance of this.

TOTAL CONCLUSION

Creating online bookstores and database have been analyzed. Nowadays majority of online bookstores for people were created in HTML, Java, PHP and other languages, and their databases were created mostly in MySQL. That's why creating online bookstores for learning this programmes one of peak matters.

As above mentioned, we saw that the working system and differences between most popular online stores like a "amazon.com", "eBay.com", and "half.com". And, we create the graph that which store is the most suitable for us. In ending the graph we could see that "amazon.com" is the most suitable and comfortable choice. Because, it has about 70 millions of electronic books in 82 languages.

Continuing the view of this online stores we mentioned that they have not the electron catalogue which created the "Dublin core" version. After this view I adopt the resolution that creating the online bookstore with classification "Dublin core".

This chapter is the preparing chapter for the following chapter. We will see this at the end of the chapter. In the following chapter I will write functional and organizational structure, the exploitation of creating site.

In the 2nd chapter I prepare my base of programme with helping algorithms. I created three algorithms: for searching information, adding information and searching for its functions.

In the first section of the site I wrote some information how to create e-book base and using and installing MySQL in your laptop. This chapter is the main chapter of the final qualifying work. In this chapter I created functional structure and organizational structure of creating online bookstore. In this chapter I created my site and wrote its interface. At the end of the chapter I wrote some information about my online bookstore. After that I wrote some using guide for my online bookshop.

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APPENDIX

Page Home

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<meta name="keywords" content="This site is about getting books ">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<title>Home</title>

<link href="style.css" rel="stylesheet" type="text/css">

</head>

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</tr>

<tr>

<td><table width="859" border="1" cellspacing="0" cellpadding="0">

<tr>

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<p align="center" class="title">Navigation</p>

<div id="coolmenu">

<a href="index.php">HOME</a>

<a href="new_books.php">NEW RELEASES</a>
```

BOOKS WE LOVE

TRY THIS BOOKS

CUSTOMER FAVORITS

ABOUT US

</div>

<p align="center" class="title2">Create an account</p>

<div id="coolmenu" class="formm" width="80%">

<p class="form3" align="center">Create your account and get books which you want!</p>

<form name="SR_form" method="post" target="_blank" action="http://smartresponder.ru/subscribe.html" onSubmit="return SR_submit(this)">

<input type="hidden" name="version" value="1">

<input type="hidden" name="tid" value="34769">

<input type="hidden" name="uid" value="27025">

<input type="hidden" name="charset" value="utf-8">

<input type="hidden" name="lang" value="1">

<input type="hidden" name="did[]" value="9267">

<p class="form1">Name in English:

<input type="text" name="field_name_first" size="23" value="" maxlength="50" style= 'border :1px" #c1c1c1 solid; font-family: Verdana; font-size:11px; width: 120px; color: #424242;'>

</p>

<p class='form1'>Email adress:

<input type="text" name="field_email" size="23" value="" maxlength="50" style= 'margin:0px; padding:0px; border :1px" #c1c1c1 solid; font-family: Verdana; font-size:11px; width: 120px; color: #424242;'>

</p>

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<p style='margin:5px; margin-top:10px; padding:0px; '>
<input type="submit" name="SR_submitButton" value="Create an Account"
align= "center" style= 'border :1px grey solid" #c1c1c1 solid; font-family:
Verdana; font-size:11px; width: 120px; height:11px; background-color: #f6f6f6;
color: #424242; font-weight:bold; margin-left:10px ' >

</p>

</form>

</div>

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<td width="687" valign="top"><table width="635" height="33" border="1"
cellpadding="0" cellspacing="0">

<tr>

<td width="640" height="31"><marquee>"Welcome to our Online Book Store!
You can find any books you want from here. We are glad to help you with
it..."</marquee></td>

</tr>

</table>

<p align="center"><em>Now-a-day, books sell from online is one of the popular
methods in the world. Before using this method, people will go book shop to buy
the book that they want. By using this method, people can save time and they can
search quickly by typing author name or book name that they want. That is why I
create this site for you. I hope that you like it and enjoy to use it.</em><br>

<br>

</p></td>

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</tr>

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</body>
</html>
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Page New Releases

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<body>
<table width="759" border="1" align="center" cellpadding="0" cellspacing="0"
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<td></td>
</tr>
<tr>
<td><table width="859" border="1" cellspacing="0" cellpadding="0">
<tr>
<td width="185" valign="top" class="left">
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<p align="center" class="title">Navigation</p>
<div id="coolmenu">
<a href="index.php">HOME</a>
<a href="new_books.php">NEW RELEASES</a>
<a href="foreign_books.php">BOOKS WE LOVE</a>
<a href="booking_page.php">TRY THIS BOOKS</a>
<a href="pay.php">CUSTOMER FAVORITS</a>
<a href="contacts.php">ABOUT US</a>
</div>
<p align="center" class="title1">Create an account</p>
<div id="coolmenu" class="formm" width="80%">
<p class="form3" align="center"><em>Create your account and get books which
you want!</em></p>
<form name="SR_form" method="post" target="_blank"
action="http://smartresponder.ru/subscribe.html" onSubmit="return
SR_submit(this)">
<input type="hidden" name="version" value="1">
<input type="hidden" name="tid" value="34769">
<input type="hidden" name="uid" value="27025">
<input type="hidden" name="charset" value="utf-8">
<input type="hidden" name="lang" value="1">
<input type="hidden" name="did[]" value="9267">
<p class="form1">Name in English:
<input type="text" name="field_name_first" size="23" value="" maxlength="50"
style="border :1px" #c1c1c1 solid; font-family: Verdana; font-size:11px; width:
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</p>

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</p>
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<p style='margin:5px; margin-top:10px; padding:0px; '>
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<input type="submit" name="SR_submitButton" value="Create an Account" align= "center" style= 'border :1px grey solid" #c1c1c1 solid; font-family: Verdana; font-size:11px; width: 120px; height:11px; background-color: #f6f6f6; color: #424242; font-weight:bold; margin-left:10px '>
```

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</p>
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</form>
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</div>
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</td>
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```
<td width="687" valign="top"><table width="635" height="33" border="1" cellpadding="0" cellspacing="0">
```

```
<tr>
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```
<td width="640" height="31"><marquee>"Welcome to our Online Book Store! You can find any books you want from here. We are glad to help you with it..."</marquee></td>
```

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</tr>
```

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</table>
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<p class='lesson_name'><a href='view_new_books.php?id=1'>Grammarway 4</a></p>
```

<p lesson_adds>Date: 2014-05-12</p>

<p lesson_adds>Author: Jenny Dooley</p>

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<tr>

<td><p>Grammarway 4 is the fourth book in a four-level grammar series presented in full colour for learners of the English language at upper-intermediate level. The book is available in two editions - with or without answers - and is suitable for self-study or classroom use as a supplement to any course at this level.

</td>

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</table><table class='lesson' align='center'>

<tr>

<td class='lessons_title'>

<p class='lesson_name'><a href='<u>view_new_books.php?id=2</u>'>English Grammar in Use 4</p>

<p lesson_adds>Date: 2014-05-12</p>

<p lesson_adds>Author: Raymond Murphy</p>

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<td><p>English Grammar in Use was written as a self-study grammar book, but teachers may also find it useful as additional course material in cases where further work on grammar is necessary.</p></td>

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grammatikasi</a></p>

<p lesson_adds>Date: 2014-05-12</p>

<p lesson_adds>Author: Muhammad G'afforov</p>

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<td><p>O'zbekiston Respublikasining xorijiy fi lologiya, huquqshunoslik, sharq
tillari, iqtisod<br></p></td>

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<td class='lessons_title'>

<p class='lesson_name'><a href='view_new_books.php?id=4'>HTML, CSS,
скрипты: практика создания сайтов</a></p>

<p lesson_adds>Date: 2014-05-12</p>

<p lesson_adds>Author: Артемий Ломов</p>

</td>

</tr>

<tr>

<td><p>Благодаря Всемирной паутине (World Wide Web, WWW) сети
Интернет публикация практически любой информации стала в наши дни
фантастически доступной.</p></td>

</tr>

</table><table class='lesson' align='center'>
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<tr>

<td class='lessons_title'>

<p class='lesson_name'>Axborot
Kommunikatsiya Texnologiyalari Izohli Lug'ati</p>

<p lesson_adds>Date: 2014-05-12</p>

<p lesson_adds>Author: Aripov A.N.</p>

</td>

</tr>

<tr>

<td><p>Mamlakatimizda axborotlashtirish sohasida mustaqillik yillari davrida
amalga oshirilgan tadbirlar o‘z samarasini bermoqda. O‘zbekiston Jahon axborot
hamjamiyatining teng huquqli a’zosiga aylandi. Zamonaviy axborot va
kommunikatsiya texnologiyalaridan foydalanuvchilar soni tobora oshib
bormoqda.</p></td>

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Techniques</p>

<p lesson_adds>Date: 2014-05-12</p>

<p lesson_adds>Author: John Resig</p>

</td>

</tr>

<tr>

<td><p>I’d like to take this opportunity to thank everyone who made this book
possible. It was a tremendous amount of work, and I appreciate all the help and
guidance that I received along the way</p></td>

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</tr>

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<p lesson_adds>Date: 2014-05-12</p>

<p lesson_adds>Author: Тимофеев А.Н.</p>

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<td><p>Добро пожаловать в мир программирования на C++! C++ является
языком программирования мирового класса для разработки
профессиональных высокоэффективных компьютерных приложений.</p>

</td>

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<p>&nbsp;</p></td>

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<tr>

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</body>

</html>

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Page About Us

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<title>About us</title>
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</head>

<body>

<table width="759" border="1" align="center" cellpadding="0" cellspacing="0"
bgcolor="white" class="main_border">

<tr>

<td></td>

</tr>

<tr>

<td><table width="859" border="1" cellspacing="0" cellpadding="0">

<tr>

<td width="185" valign="top" class="left">

<p align="center" class="title">Navigation</p>

<div id="coolmenu">

<a href="index.php">HOME</a>

<a href="new_books.php">NEW RELEASES</a><a
href="foreign_books.php">BOOKS WE LOVE</a>
```

TRY THIS BOOKS

CUSTOMER FAVORITS

ABOUT US

</div>

<p align="center" class="title1">Create an account</p>

<div id="coolmenu" class="formm" width="80%">

<p class="form3" align="center">Create your account and get books which you want!</p>

<form name="SR_form" method="post" target="_blank" action="http://smartresponder.ru/subscribe.html" onSubmit="return SR_submit(this)">

<input type="hidden" name="version" value="1">

<input type="hidden" name="tid" value="34769">

<input type="hidden" name="uid" value="27025">

<input type="hidden" name="charset" value="utf-8">

<input type="hidden" name="lang" value="1">

<input type="hidden" name="did[]" value="9267">

<p class="form1">Name in English:

<input type="text" name="field_name_first" size="23" value="" maxlength="50" style="border: 1px solid #c1c1c1; font-family: Verdana; font-size: 11px; width: 120px; color: #424242;">

</p>

<p class="form1">Email adress:

<input type="text" name="field_email" size="23" value="" maxlength="50" style="margin: 0px; padding: 0px; border: 1px solid #c1c1c1; font-family: Verdana; font-size: 11px; width: 120px; color: #424242;">

</p>

<p style="margin: 5px; margin-top: 10px; padding: 0px;">

```
<input type="submit" name="SR_submitButton" value="Create an Account"
align="center" style="border:1px grey solid" #c1c1c1 solid; font-family:
Verdana; font-size:11px; width: 120px; height:11px; background-color: #f6f6f6;
color: #424242; font-weight:bold; margin-left:10px '>
```

```
</p>
```

```
</form>
```

```
</div>
```

```
</td>
```

```
<td width="687" valign="top"><table width="635" height="33" border="1"
cellpadding="0" cellspacing="0">
```

```
<tr>
```

```
<td width="640" height="31"><marquee>"Welcome to our Online Book Store!
You can find any books you want from here. We are glad to help you with
it..."</marquee></td>
```

```
</tr>
```

```
</table>
```

```
<p>Internet shopping is a process to allow consumers to purchase goods or
services directly from a seller in real time, without intermediary services on the
Internet. If there is an intermediary service is called e-commerce. An online shop,
eshop, e-store, internet shop, webshop, webstore, online store, or Virtual store
evokes the physical simulation to purchase products or services in a brick and
cement retailer or shopping mall. This process is known as business to consumer
(B2C) online shopping. When companies buy other companies, is known as the
Business to Business (B2B) online shopping. B2C and B2B both in the form of e-
commerce online shopping.</p>
```

```
<p>In order to design bookshop system, we will visit simple online bookshop for
feasibility study. Create project planning to control work flow, design the program
and related database system, we will provide installation guide and user guide as
the same time. We will present our work with several documents, each document
is dependent showing their individual information. There are feasibility report,
project planning, program design, installation guide and user guide. Open those
documents you can find what details we are working.</p>
```

```
<p>From pointed informations I decided to create my own
```

`OnlineBookStore` on my final qualification work. Here you can find books, booking some of them. After you pay you can get full electronic version. In this site you can only pay for cash. We did not temporarily have paying from credit cards. I hope you will like our work.`</p>`

`<p align="right">` Administrator of the site : Omonmurod Boymurodov`</p>`

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`</td>`

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`</table></td>`

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`<tr>`

`<td></td>`

`</tr>`

`</table>`

`</body>`

`</html>`