

**MINISTRY OF DEVELOPMENT OF INFORMATION TECHNOLOGIES  
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**KHIKMATULLAEVA (MAKHMUDOVA) DILAFRUZ AVAZJON KIZI**

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# CONTENT

## INTRODUCTION

### **Chapter I ANALYSIS OF SOFTWARE AND METHODS TO CREATE A DATABASE OF ELECTRONIC JOURNALS**

- 1 Analysis of founding of electron journal base in the world
- 2 Analysis of technology to create a database of electronic journals in the world
- 3 Analysis of open resources of the world information
- 4 Analysis of the electron scientific journals of Uzbekistan and secure of the authors rights

Conclusion of the chapter I

### **Chapter II Model and algorithm of the founding of electron base of journals**

- 1 Model of creating of the base of electron journals
- 2 Structure of creating of the base of electron journals
- 3 Algorithm of creating of the base of electron journals
- 4 Structure of the WEB-PORTAL of electron journals

Conclusion of the chapter II

### **Chapter III FUNCTIONAL AND ORGANIZATIONAL STRUCTURE OF THE CREATING OF THE ELECTRON JOURNALS PORTAL**

- 1 Functional structure of the creating of the electron journals portal
- 2 Instructions of the work with the web-portal

Conclusion of the chapter III

**Conclusion**

**Literature**

**Appliction**

## INTRODUCTION

**Relevance of the topic:** Nowadays, when the modern computer generations are increasing and communication tools are improving, electronic journals have occupied an important place in the life of society as a recipient of the information. To ensure the high level scientific work, scientists and researchers' ability to get acquainted with the achievements of scientific knowledge, to save them through journals in digital form, read e-journals at any time and from different places – are some of existing problems which are awaiting solution . Therefore, creation of electronic scientific journals' portal is one of the most pressing issues.

There have been doing a lot of works on the development of science and on support to scientific researchers in Uzbekistan. Following works are done:

- The Decree of the President of the Republic of Uzbekistan of 24 July 2012 №4456 “About further movement of the system of development and certification of research and scientific and educational personnel” and the Decree of the Cabinet of Ministers of 28 December, 2012 year №365 "On measures for further improvement of postgraduate education and certification of scientific and scientific-pedagogical specialist", which is the main tasks to ensure the implementation of the doctoral thesis to the society with the results of scientific tests, further deepening of cooperation in the sphere of science, in addition, in order to previse of cases of excessive bureaucratism and to ensure the transparency and openness of the decision of certification bodies, are the purposes of the Presidium of the HAC of December 30, 2013;[7]
- in order to ensure the implementation of resolution № 1875.10 December 2012, of the President of the Republic of Uzbekistan "On measures to improve foreign language learning" of creating a foreign languages "portal electronic journal", there was enacted a decree of the Cabinet of Ministers of the Republic of

Uzbekistan (the Law of the Republic of Uzbekistan, 2013, N 42, 559), to create a professional e-journal and Internet portal. [8]

In contrast to the print journal electronic journal has a number of advantages: to the electronic journal online scientific information be immediately entered, studying article and feedback writing structure, the electron sign. This will increase the number of Uzbekistan scientists of different science spheres, develop scientific researches, ensure the use of reliable resources, activity of publishing, collection scientific journals in one place and the expansion of the capacity to use them openly, and ability to have timely and reliable information.

**Target of Research:** The process of formation of electronic journals basis.

**Research subject:** Forms, methods and tools of formation of electronic journals basis and software.

**Work objective:** The development of methods and appropriate software for the creation of an electronic database of scientific journals.

**Research tasks:**

The following tasks have been identified for development of electronic journals database and software support:

- Study database of scientific journals to learn performing a comparative analysis on the basis of world experience;
- analysis of the available scientific journals in Uzbekistan;
- creating an electronic database of scientific journals to develop models and algorithms;
- creating the structure of the database of electronic journals;
- develop the electronic structure of the Web portal;
- develop functional and organizational structures of electronic scientific journals.

**The level of scientific novelty of the research:** Currently, a number of scientific publishers in the world are providing scientific resources to users in the

open regime. Uzbekistan's publishing houses are also publishing scientific journals in print and electronic form for their users. However, currently Uzbekistan does not have unified online system of submitting scientific articles and their feedback, sharing views on science and journals, and there is no single rating system. The creation of electronic journals web portal aims a solution of the above problems. This proves the scientific innovation of our research.

**Research questions and hypotheses.** If there is worked out ways of development electronic journals' database and launch electronic journals' web portal, undergraduates, young researchers, even the scientists can use it. This will contribute to common knowledge and the development of science.

**Literature analysis on the research subject.** To create a database of electronic journals more of tests carried. However, Ханнанов Н.К., Ханнанова А.Н. Проблемы создания баз данных научных публикаций российских авторов в области возрастной физиологии и коррекционной педагогики//Проблемы современного образования.-2010.-№3.-С.55-57.,Электрон нашрларга оид муаллифлик ҳуқуқлари / Масъул муҳаррир М.А. Раҳматуллаев. – Т.: Тошкент юридик институти нашриёти, 2013. – 251 б.

**The description of the methods used in the study.** The research methodology basis provides for the use of electronic scientific journals and describes methods to create a database of electronic journals for scientific researchers and scientists. The analytical analysis, monitoring and test methods are used in the research.

#### **Methodological basis of the study:**

- in order to ensure the implementation of resolution № 1875.10 December 2012, of the President of the Republic of Uzbekistan "On measures to improve foreign language learning" of creating a foreign languages "portal electronic

journal", there was enacted a decree of the Cabinet of Ministers of the Republic of Uzbekistan (the Law of the Republic of Uzbekistan, 2013, №42, 559), to create a professional e-journal and Internet portal.

- December 28, 2012, the Cabinet of Ministers of the Republic of Uzbekistan, approved by Decree №365 "Regulations on the Supreme Attestation Commission under the Cabinet of Ministers of the Republic of Uzbekistan".

- **The reliability and validity of the research.** The reliability and validity of the research is based on the results' honesty and reliability factors, conduct research goals and objectives that have been reached, the methods used in the electronic database of scientific journals and the creation of a web portal.

**The practical importance of the research and its application:** As a result of this scientific research we created the electronic scientific journals web portal which allows users to highlight their research achievements and speed up searching procedures through this portal.

speed of electronic scientific journals.

**The announced results.** The practical results, based on this scientific research, were announced at the 60-year anniversary of the Tashkent University of Information Technologies.

**Research structure and contents:** Master's thesis content, introduction, 3 chapters, conclusion, references applications and 73 pages. The main text of the research.

# **I CHAPTER. ANALISYS OF SOFTWARE AND METHODS TO CREATE A DATABASE OF ELECTRONIC JOURNALS**

## **1. Analisis of methods to create a database of electronic journals in the world**

As the XXI century is the information age and the age of information and communication technologies are used in science development, technology, the economy, the development of all areas is being improved. Today's younger generation should get high-level knowledge and must appropriately use the created for him opportunities.

According to our President's words, which took place in his work named "High spirituality is an invincible force", "The education reform started in the first years, I had based on the best experiences of the world and life, which soon proved the truth came out, and if it's successful, we will soon carry out our life in a positive way with so called "blast effect", which means a new educational model that can give the strong effect".

In fact, the period of independence, which has created all the conditions of academic lyceums and professional colleges, higher education institutions, student, professional and learn the secrets of science and education, already speak two or three languages fluently thousands of students into the life, show their talent and potential of young professionals in the case of such dreams and aspirations today are seeing the fruit of their most profitable.[1]

As you know, the issue of ensuring the rights and freedoms of citizens in the field of information a person to obtain information and the right to distribute their own personal opinion and embodies the freedom, which is an essential condition for building the foundations of a democratic society, has become the cornerstone.

"The principles and guarantees of freedom of information" everyone's access to information and the adoption of the Law as well as the implementation of the

right to freely use and protection of information, the individual, society and the state plays an important role in ensuring information security.[2]

Electronic magazines, periodicals, which allows you to get through the computer. They are spread by means of the Internet network or any information. In contrast to the print magazine electronic magazine of interactive elements and a variety of games, tests and the like are characterized by the presence of a number of advantages. The growth of the descendants of the computer and communication tools are becoming increasingly necessary in a period of electronic journals has occupied an important place in the life of society as a recipient of the information. In addition to electronic magazines feature is the presence of a new subscription to the article. Another preferred by the readers of articles of negotiations and exchange of views.

There are 3 groups of electron journals:

- parallel electron magazines - print version of traditional publication i.e. print and electron versions are similar;
- integral electron magazines - are printed in two points of view i.e. that the first part completes the second one;
- original electron magazines - are printed only in a electron view.

It plays an important role by successful studying process, culture, educational and development process etc. Today it is important to have an online resources for studying and scientific improvement. We have to pay attention to the activity of big foreign organizations.

It is a big part not only of educational process also of the state industrial development.

World informational resource is the leading product of the work of giant companies of the world which is directed to the development of the science and education. Naturally, companies providing this kind of production are legal entities with the main activities like business etc. These are such companies like annual reviews, AEA journals, JSTOR, EBSCO, PROQUEST, EMERLAND, WILEY ONLINE, LIBRARY, TAYLOR&FRANCIS, SPRINGER LINK, OXFORD JOURNALS, CAMBRIDGE JOURNALS ONLINE, IVIS and others. Each company has its own resources content. I.e. that they have informational base directed to any science sphere.

EBSCO is the one of the biggest and leading company with scientific resources. EBSCO industries was founded by Elton Brison Stevens dated 1994 in state of Alabama, USA.

EBSCO Industries company, which includes 30 different companies. The company in 1984 as a magazine in print and popular publications EBSCO Publishing company was founded. 2013 year 1 july EBSCO Information Services (information services). 83,3% USA academic libraries EBSCO recognize basic scientific information as a search tool. EBSCO contain an open service delivery platform EBSCO Discovery Service, the entire collection for any organization in a single system, through various types of service providers.

EBSCO - the English-language periodicals, which allowed the use of the database service. The full text of some articles in the database, only some of the annotation. EBSCO some in conjunction with the most recent issues of the journals included in the number of magazines in the 1950s.

Unlimited access to database have over the organization's IP or can be accessed through the proxy server.

Articles may not be used for commercial purposes, and only he can read and use. The copyright law is also given special attention. Reference links to articles that are.

EBSCO database placed in publications <http://www.ebscohost.com/academic>. List is updated on a regular basis. For more information about the list of publications included in the base form (full text or abstract and bibliographic), publishing, theme, etc. [18]

Our institute is also a member of the EBSCO database. 1-year agreement gives us the right to move our base resources. The license agreement is carried out through the system. Site consists a License Agreement.

EBSCO company's products and services focus on support for users. This <http://support.ebsco.com> special support is placed on the site are as follows:

- manual;
- webinars and online training schedule;
- resources for further advancement materials: bookmarks (you can also order the printed version), databases, logos, advertising materials, window designer, etc.

#### **The company's databases and resources:**

*Academic Search Premier* - scientific journals consists of database.

*Business Source Premier* - economics, finance, management, marketing and accounting bases.

*MASTER FILE Premier* - a universal sense DATABASE, and bibliographic access to the links.

*MEDLINE* - Medical DATABASE.

*Inspec* - one of the leading English-language abstract of scientific and technical DATABASE.

*Newspaper Source* - daily newspapers DATABASE.

*Regional Business News* - Regional news in the field of full-text DB.

*Health Source: Nursing / Health Academic Edition* DATABASE.

*Eric* DATABASE on the problems of education.

*Clinical Pharmacology*- clinical pharmacology DATABASE.

*Health Source- Consumer Edition* - health care and medical DATABASE.

*Library, Information Science & Technology Abstracts (LISTA)* - in the field of library DATABASE. [11]

### **Springer**

Springer journals, including outdoor magazines (Open Access Journals). Most of the journals Scopus, PubMed and registered at Thomson Reuters (Journal Citation Reports) and factors Mavera,.

Springer is not allowed to use conditions, which are not allowed and the lock icon will appear. Allow the use of pink and do not lock. How to use these resources can be allocated.

Computer system and IP have free unlimited access to the organization. Have access to all the journals and articles. Home phone and other devices access to the system, the system will need to be registered, then you will allow your administrators. Journals and articles in various categories in the search, view and download options. Instructions for authors, has been developed and placed on the system. Analysis of the technology to create a database of electronic journals in the world.[20]

## **2. Analisis of technology to create a database of electronic journals in the world**

To create a database of electronic journals on a variety of different methods of approach. Currently, publishers and companies providing electronic information resources not only to provide only read the journals, and arrange for the use of high-tech type of complex system have been developed and a wide range of services to users.

For example, the case of ProQuest, verified and reliable information of the people is the main goal. During the company's 70 years of work, dissertations, government archives to research through the provision of resources to form a new knowledge of the world and opened the door to a new "gateway" to reach the next level.

ProQuest includes the following components:

ProQuest®, Bowker®, Dialog®, ebrary®, Ebook Library (EBL) and Serials Solutions®. / [21]

ProQuest full-text scientific journals including hundreds of thousands of scientific articles. Physics, chemistry, mathematics, engineering, nanotechnology, electronics, telecommunications and a range of several scientific journals, newspapers and videos to enhance the efficiency of research through to find trouble.

Accounting of ProQuest database of articles, books, monographs, field books, dissertations, patents, scientific organizations and laboratories report, the conference took place. This librarians and researchers, published in the world technology creating opportunity for people to miss important information.

ProQuest Illustrated by users unable to make the traditional means of information (tables, graphs, images, maps) can not find a look for a moment. Images description of all the important characters are as follows: Formula

References to specific terms of numbers and letters, etc. Wide selection of photos for the investigation of a wide range of areas for special search module.

ProQuest's database on the new platform in the Russian-language interface and a very large mass of information in order to receive the maximum level, the net result for the storage and processing with the most modern services. Facet widely used in navigation. Integrate software, such as RefWork. RSS technology is not only the subject, but a report published on.

Unlimited access to database have over the organization's IP or can be accessed through the proxy server.

In addition, ProQuest expanded opportunities and global library of e-books, including his own Ebook Library (EBL) at the end of the work. This is followed by the company in accordance with the purpose of the data in different formats, namely, books, magazines, newspapers, books and videos to enhance the efficiency of research through to find trouble.

Ebook Library (EBL) - the collection of e-books in the world is the world leading system research services to corporate and academic libraries. EBL - ProQuest in part, representatives of many countries. [22]

A database of electronic journals of the Russian Federation " computational technology" journal, at the electronic structure of the journal consists of 2 parts:

- reader;

-publications

Reader to view an electronic version of the journal, as well as authors and articles are designed to search for information about the database.

Publishers to support the exchange of documents as part of the editorial articles intended for the formation of preparing and printing the journal and 2 www interface:

- author interface;
- editor interface.

Starter editions of the authors and their articles www interface, or via e-mail, as well as information about the articles.

Editor interface to print articles and preparation, as well as electronic versions of journals designed for area integration.

Electronic version of the journal consists of 3 main database:

- authors of the database;
- articles database;
- reviewers database.

In addition to the main database to database, there are cities, countries, titles, positions, etc.

Authors and Reviewers database contains the following information: surname, first name, last name, date of birth, academic title, academic degree, job title, address (home), telephones (office and home), fax, e-mail the URL to your personal page, information about the authors of the scientific and interests ( Russian and English languages). Some of the areas in accordance with the requirements of the journal mandatory to complete some of the fields to be filled in accordance with the request of the author.

Articles database consists of the following information: authors, titles, journal ID, key words, annotation, and the HTML file of the article, the article TeX file, the full text of the article, all the English and Russian languages. [15]

### **3. The analysis of the sources of global information resources.**

Today the Internet for all media. We are looking for answers to their questions quickly via the Internet, can enrich our knowledge of the world and learn. Internet plays a special role in disseminating knowledge. In addition, knowledge of science portals and sites, e-libraries can be an example.

Information resources of the Internet, electronic catalogs, electronic journals, books and newspapers, dictionaries, encyclopedia, reference books, online book stores and other resources can be. Sources of information placed on the Internet to find information quickly, and get acquainted with the scientific work and the opportunity to participate directly in this process. Now a study of the global information resources, and are trained to use them. The National Library of Uzbekistan named after Alisher Navoiy the world that are open source. Readers to visit this institution which they can obtain the necessary information for free.

Open Access (OA) is a free public Internet connection, and users to read, download, copy, distribute, print, search, and quotes, indices, data or other purposes, the integrity of the work in the direction of the authors only keeping.

Open Access concept, researchers, academics, library professionals, scientists, financiers, civil servants, and will be discussed among publishers.

Today, the judge from the view of the storage journals 90%, 10% open this link.

The first important international link is stored in the clear in the conference in Budapest in February 2002. Then in June 2003, the Declaration of Berlin in October 2003, the statement Bifez and links to the scientific and social knowledge. The link to the free movement of 14 years ago. Today, the National Library of Uzbekistan named after Alisher Navoiy users of the library network of 33 public unlisted information resources.[23]

Knowledge quickly spread to overestimate the role of public resources. At first placed on system resources and increase the nudatabaseer of scientists that the development of the country, and during these great discoveries, technological development, the development of the society, the news will increase it. Knowledge quickly spread to overestimate the Role of public resources. At first placed on system resources and increase the nudatabaseer of scientists that the development of the country, and during these great discoveries, Technological Development, the development of the society, the news will increase it. the large nudatabaseer of references to this question in their articles, which have an impact over the growth factor in its ratings, famous in the world, offers a variety of conferences, with interest all over the world begin to be answered.

The world now has a lot of resources, including, we may include the following:

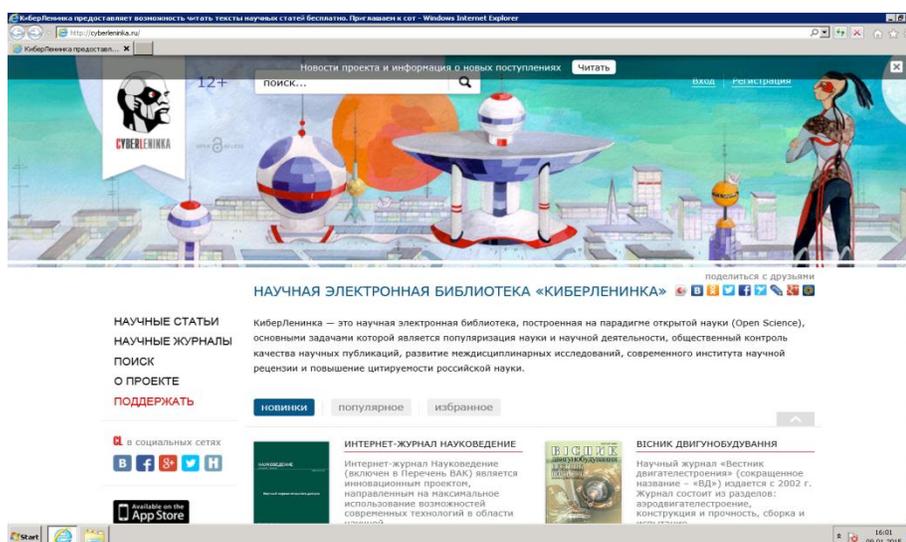
- [Aluka](#)
- [Cadatabaseridge JOURNALS](#)
- [EastView](#)
- [InstituteofPhysics \(IOP\)](#)
- [IQlib.ru](#)
- [OECD iLibrary](#)
- [RoyalSocietyPublishing](#)
- [arXiv.org](#)
- [BioMedCentral](#)
- [ChroniclingAmerica](#)
- [DOAB \(Directory of Open Access Books\)](#)
- [DOAJ \(Directory of Open Access Journals\)](#)
- [EncyclopaediaIranicaOnline](#)
- [FolgerShakespeareLibrary](#)

- [FreeMedicalJournals](#)
- [GATEWAY FOR FREE E-JOURNALS](#)
- [Information Center for Social Sciences, RUC](#)
- [iDEA](#)
- [LibraryandArchivesCanada](#)
- [NationalCenterforBiotechnologyInformation](#)
- [NationalLibrarySingapore](#)
- [PLOS \(Public Library of Science\)](#)
- [ScienceBooksOnline](#)
- [TheWorldBankMicrodataLibrary](#)
- [The World Bank Open Financial Data](#)
- [The World Bank Open Knowledge Repository](#)
- [TheWorldBankProjects](#)
- [TheWorldBankOpenData](#)
- [VostochnayaLiteratura](#)
- [KIBERLENINKA](#)
- [MSB \(Mirovayasifrovayabiblioteka\)](#)
- [FEK \(Fundamentalelektronkutubxona\)](#)
- [ESM \(Ekonomika.Sotsiologiya. Menejment\)](#)

### **In Russia's example: The open resource "CYBERLENINKA"**

**Cyberleninka** is a scientific electronic library. Its main objective is a popularization of scientific activity, improvement of the quality of scientific publications, development of scientific research and an increase in quotation of Russia subject. Cyberleninka is built on the base of knowledge paradigm. Cyberleninka library is enriched by scientific articles from journals' which are published in Russia and other foreign countries located nearby, and scientific journals which consist of the thesis(dissertation) research results of leading

publishing houses enrolled to the Higher Attestation Commission of Russian Federation (НАС РФ). This is a very convenient system, through which you can have an access to regularly updated flow of information about scientific journals, scientific articles and projects. Currently, the fund consists of nearly 1 000 000 scientific articles and 1000 scientific journals. It has 330 000 registered users, nearly 2 000 000 guests and visitors up to 4 000 000. The advantages of Cyberleninka system are in convenience of search system, the possibility of free uploading of journals, the width of database and in opportunity of downloading the necessary information in pdf. [24]



In the item “Scientific journals”, we can find the list of journals and their nудatabaseer, the nудatabaseer of journals approved by Higher Attestation Commission (НАС), the nудatabaseer of journals in the base and the nудatabaseer of journals in Scopus. When one journal is selected there will come the information about this journal, e.g. ISSN nудatabaseer, the theme relevance of its articles, a brief description of the journal.

When clicked on the cover of journal, there will be such kind of information as the list of all articles, authors, dates and volumes, etc. If the article is selected there will come information about this article, annotation and its full text. You can view or download this article. **“DOAJ” (Directory of Open Access Journals).**

The Directory of Open Access Journals (DOAJ) was established in 2003 in the library of Lund University in assistance of financial support of Open Society Institute in Sweden. The Directory of Open Access Journals (DOAJ) includes all spheres of science such as technology, medicine, social and humanitarian sciences. This system is free, full-text, had passed scientific expert reviews on different categories and includes multi-language journals. Currently, there are more than 10 000 journals of 134 countries. The main goal of the Directory of Open Access Journals (DOAJ) is to perform free services through internet, to ensure the popularity of scientific journals, an arrangement of open journal movement systems in the world and assistance in publishing issues of publishing offices.

The search can be done in several ways:

- by the name of journal;
- by articles;
- by a keyword;
- by subject (medicine, science, medical sciences, medicine(General), Social sciences, internal medicine, technology, biology and life sciences, biology, technics and technology);
- by journals license;
- by ISSN;
- by published country;
- by journals language (English, Spanish, Portugal, French, Russian, German, Italian, Turkish, Castilian and Chinese languages );
- by the name of publishing house;
- by the time categories of adding to DOAJ.

This simplifies the search system and gives the possibility of quick search for necessary information. [ 25]

# DOAJ search system

The screenshot shows the DOAJ homepage. At the top left is the DOAJ logo and the text "DIRECTORY OF OPEN ACCESS JOURNALS". To the right is a "SUPPORT DOAJ" button. Below the logo is a navigation menu with links: Home, Search, Apply, News, About, For Publishers, and a Login link. A search bar is located in the center, with a dropdown menu showing "journals" selected and "articles" as an option. To the right of the search bar is a search icon and a link to "[Advanced Search]". Below the search bar is a section titled "Directory of Open Access Journals (DOAJ)" with a brief description. To the right of this section is a statistics box showing: 10,161 Journals, 6,045 searchable at Article level, 136 Countries, and 1,820,941 Articles. Below the statistics is a "FAQs" section with links to Features, Open Access Information, Best Practice, Download metadata, and New Journals Feed. At the bottom right are social media icons for Facebook, Twitter, and LinkedIn. The browser's address bar shows "http://doaj.org".

The screenshot shows the DOAJ search results page. At the top left is the DOAJ logo and the text "DIRECTORY OF OPEN ACCESS JOURNALS". To the right is a "SUPPORT DOAJ" button. Below the logo is a navigation menu with links: Home, Search, Apply, News, About, For Publishers, and a Login link. A search bar is located in the center, with a dropdown menu showing "order by ... relevance" and "search all". Below the search bar is a pagination bar showing "1 - 10 of 1831120". Below the pagination bar is a list of search results. The first result is titled "Recombinant in vitro assembled hepatitis C virus core particles induce strong specific immunity enhanced by formulation with an oil-based adjuvant". Below the title is the abstract text, which includes subjects, authors, publisher, date of publication, and keywords. The browser's address bar shows "http://doaj.org/search".

#### **4. The copyright protection and analysis of electronic scientific journals in Uzbekistan.**

Nowadays, as in many developed countries, in Uzbekistan some of the scientific, popular-scientific journals are available not only printed but electronically, either. Although these are a few indicators. The limited number of journals, disproportional distribution to the readers and the fact that they are not common all over the Republic is, of course, one of the most important problems in our list. Publishing journals, both in print and electronically is very useful, as it gives the consumers an opportunity to have an access through internet.

To implement the performance of objectives determined in the Decree of President of the Republic of Uzbekistan from 24<sup>th</sup> of July №.PF-4456 “About further improvement of attestation and the preparation of high-skilled scientific and scientific-pedagogical personnel” and in the resolution of the Cabinet of Ministers from 28<sup>th</sup> December №365 “About further improvement of attestation of high-skilled scientific and scientific-pedagogical personnel and postgraduate education”, the Decisions of The Presidium of Higher Attestation Commission of Republic of Uzbekistan (HAC RUz) were approved to ensure the public acquaintance of main scientific results of doctoral theses (dissertations), approbation of maintained results, deepen the cooperation in the sphere of science, as well as avoidance of unnecessary bureaucratic circumstances and assurance the transparency and openness in the work of attestation authorities.[7]

Higher Attestation Commission (HAC) in the 1<sup>st</sup> of January 2010 has composed “The lists of journals in which the scientific articles of Doctoral and master's theses (dissertations) should be published”, which was approved by The Presidium of Higher Attestation Commission on 30<sup>th</sup> of December 2013. According to “The lists of journals in which the scientific articles of Doctoral and master's theses (dissertations) should be published” there are some established

requirements for publishing of scientific articles of Doctoral and master's theses (dissertations). Journals are divided to all fields of science, among them we can notice as well as journals published in the Republic of Uzbekistan, Europe, America and other developed countries in such areas.

The applicants for PhD and Doctor of science on following subjects should announce their scientific articles on thesis (dissertation) works according to the list below:

- Physical and Mathematical Sciences;
- Physics and Mathematics (Mechanics);
- Physical and Mathematical Sciences (physics);
- Technical disciplines (mechanics, engineering, construction);
- Earth Sciences (geology and mineralogy);
- Earth Sciences (Geography);
- Technical disciplines (management, IT, XT);
- Technical Studies (communication);
- Technical Sciences (energy sector);
- Chemical Sciences;
- Technical Science (Chemical Engineering);
- Pharmaceutical Sciences;
- Biological Sciences;
- Agricultural Sciences;
- Veterinary Sciences;
- Economics;
- History;
- Philosophy;
- Law;
- Oriental studies;

- Sociology;
- Political Science;
- Philology;
- Pedagogical Sciences;
- Psychological Sciences;
- Art;
- Architecture.

In addition to ensure the implementation of the Decree of President of Republic of Uzbekistan from 10<sup>th</sup> of Decedatabaseer 2012 №. PQ-1875 “About further development activities of foreign language learning system” the resolution of the Cabinet of Ministers on creation of e-journal portal “About the establishment of electronic journal and internet portal named ‘Foreign languages in Uzbekistan’”(Collection of the legislation of Republic of Uzbekistan, 2013, № 42, art.-559 ) was approved.

Its main function is determined as follows:

- Coverage of theoretical and methodological problems related to foreign language learning in accordance with the state priorities in republican scale;
- Announce to the public attention achieved results on innovation projects and their practical use, scientific research and methodological-educational work in the area of foreign philology and foreign language learning;
- Coverage of different nations’ culture and cultural interaction affairs on foreign language learning;
- Popularization of project results on international educational programs and continuous education system, establishment of modern educational technologies in foreign language learning;
- Coverage of news and relevant materials.

In journal and internet portal are announced the open scientific research resultson foreign language learning and theoretical and practical linguistics of citizens engaged in scientific activities from higher educational institutions as well as on the basis of personal initiative. [17]

This, in its turn, provides self-development (improvement)among all students and researchers and contributes the science development, improvement of scientific potential, increase in the nudatabaseer of scientists and augmentation of news.

### **Copyright issues**

Currently, the data reception, transmission, storage is carried out on the basis of information technologies on the fly. Contains all the necessary information through the Internet search us out of a lot of results. However, the use of many of their long safety insignificant information can also be obtained from other sources. At present, electronic publications, and the author does not provide permission to use the system to download. Indeed, in assessing the work of the author, wants to see the fruits of his labor.

Copyright literature, science, art, medieval expressed in concrete form. The format of expression, sydatabaseols, music, images, three-dimensional objects or forms may be codatabaseinated (eg videofilm, new plays, opera). Copyright any kind of work to show to spectators unsanctioned copying, publications and other forms of protection.

However, copyright does not protect ideas expressed in this game. For example, if you invented a new device and announced in the journal, your violation of the copyright is only multiplied by the journal without a warrant, any person reading the journal, as well as the establishment and the right to sell the device. [12]

Facing the countries of the world, in developed countries, the copyright law is very strong. Everyone has his work through the sale or offer the use of their own

open access to it. Otherwise, the author copying trial to compensation for material and moral damage.

Our copyright issues are now considered a serious step in the country established the Seine. The "Copyright and Related Rights" (21.07.2006), as defined by the copyright laws of the Republic of Uzbekistan. Chapter 6 of the law consists of 70 articles:

- chapter I. General rules;
- chapter II. Author rights;
- chapter III. Typical rights;
- chapter IV. Collective managing of the property rights;
- chapter V. security of the author rights and typical rights;
- chapter VI. Finally rules.

The electronic media fully covered by copyright law, however, the library works in electronic form, made available to them, increasing the issues.

The purpose of scientific, literary and artistic works (copyright), performances, phonograms, broadcasting or cable broadcasting or broadcasting organizations (related rights) arising in connection with the creation and use of the regulation of relations.

Disclosures work in personal purposes without the consent of the author or other legal owner and remuneration, shall be allowed to repeat, with the exception of the cases provided for in Article 33 of this Law.

The provisions of the first part of this article:

- reproduction of architectural works in the form of buildings and structures;
- reproduction of databases or their significant parts;
- Except in the cases stipulated by law, computer software;
- books (in full) and musical texts reprographic reproduction is not applied.

Audiovisual work or phonogram income for personal purposes without the

author's executor and the consent of the audiovisual work, but they are allowed to pay to repeat. The remuneration is paid for the use of equipment (audio and video tape recorders and other equipment) and material objects (audio or video tapes and cassettes, compact discs and other material objects) to be paid by producers and importers.

The list of manufactured and imported equipment and material objects, as well as the collection fee rates, terms and conditions of its collection procedures determined by the Cabinet of Ministers of the Republic of Uzbekistan.

This is stipulated in Article collection and distribution of authors, producers of phonograms producers and performers property rights on collective basis by one of the organizations that are carried out in accordance with the agreement between the organizations. If this is not stipulated in the agreement, remuneration is distributed in the following proportion: forty percent - to authors, thirty percent - to executors, thirty percent of phonograms or audiovisual works.

Provided in this article to control the collection and distribution schemes, as well as carried out by specially authorized state body. [4]

## **The conclusion of Chapter I**

World experience has shown that electronic journals are now popular around the world. Demand in both the print edition and electronic edition of the journal. Analysis of the experience of the World, e-journals are always easy to use, news features high speed print journals else and I came to the conclusion that the opportunities to find information. The formation of a database of electronic journals of all the public, using a variety of methods and technologies to it, that's their approach to style. Database design is desirable to create an electronic library resources. The electronic library is created, it reflects the correct and complete bibliographic records in the electronic catalog.

Some journals, open access to the network again if someone paid information services. The advantages of open information resources, and the nudatabaseer of applications and is characterized by the increase in the rating of the journal and the authors of the articles, all the resources are characterized by the use of the preservation of the rights of the copyright license agreement.

At present, the development of science and education, the importance of the use of electronic journals and log them into the role. As a result of the development of information and communication technologies such resources, and a growing need for electronic versions of journals. Various thematic articles in various languages through the effective use of scientific studies, books, training manuals to create. Researchers their articles published in journals, log in to your feedback on articles by proofreaders, an assessment of the level of their scientific work, advice necessary to carry out work on the monitoring system that allows the rapid spread of information, and the opportunity to increase the quality of scientific work. Only the use of open systems in higher education institutions, teachers, scientists, researchers not only a significant role in the training of students, undergraduates and strengthening independent knowledge, to expand the range of knowledge, of course, additional information may be familiar with the scientific research

understand the nature of the work, and play an important role in the creation of news. This, in turn, a basis for expanding scientific research.

Increasing the electronic versions of journals and online There are many reasons for the present system, the production of low-circulation journals distributed to all the readers and this is the biggest problem. If the journal is also published in print and electronic form presented them to use the system, this would be a very great achievement. The journal published in different parts of the province to another is unlikely to reach the region. Who knows. As a solution to create e-journals portal, log on, no matter where the distance to be able to familiarize with the latest scientific data, it would be equal to the right. Taking into account these issues to create a database of electronic journals and electronic scientific journals aim to create a web portal. In order to solve these issues in the next chapter algorithm to create a database of electronic journals, models, structure and structure of the web portal will be developed.

## **CHAPTER II. ELECTRON JOURNALS BASE MODEL AND ALGORITHM.**

### **1. The model of creating a database of electronic journals**

Chapter I in the world of open information resources, including research papers, scientific journals and their resources, location, portal into the online system, the database how to read and download articles and such a study and analysis of the experiences of a nudatabaseer of the world. The nudatabaseer of scientific inventions and innovations created as a result of an increase in interest young people in science, and at the same time increasing opportunities to learn about the development of information technologies increasingly growing need for the creation of electronic journals, Web portal, opening of resources to provide even more opportunities witness to give. Of course, a lot of the advantages of an open system of information resources of the world, we need to practice and compare them to the owners of the importance for researchers carrying out scientific research in the country, masters, for scientific journals, and the necessary resources to cover the creation of a single portal we found it to be. The location of the electronic scientific journals, articles in scientific journals portal, feedback, such as the publication of the article in a series of models, algorithms, and like structures. The functions carried out by first creating an electronic database of scientific journals journals were identified and formed the basis of the same base. Electronic journals,by the founding of electronic journal databases catalog system which is formed by the same electronic format. Library work developing an automated system of library way different formats of the library system started to work. Libraries around the world and the establishment of the exchange of information on both of these formats is very important. E-mail today the formation of the catalogs of libraries in various formats, such as library MARC, USMARC, Dublin Core, MODS, and others have been to form a Faton formats, such as electronic catalogs. I am implementing electronic scientific journals portal

Technologies ARM particular aim. Technologies Armenian IRC system is connected to the electronic system of electronic catalog of scientific journals portal Armenian performance target. Shield system is based on the MARC21 format, the electronic catalog.[14]

MARC 21 is being a special format complex includes the following formats:

- bibliographic information;
- authority for the information;
- for more information about the stock;
- classification;
- the information society.

Bibliographic data which is readable format and is designed to carry out its catalog. It can be used in all forms of the documents describing the format. It is the creation of basic and additional descriptions to reveal the contents of the document.

MARC is a part of the voluntary writing catalogue founding markers to define the process of setting short-term and convenient. It is designed for computer processing. Communication must provide the following format:

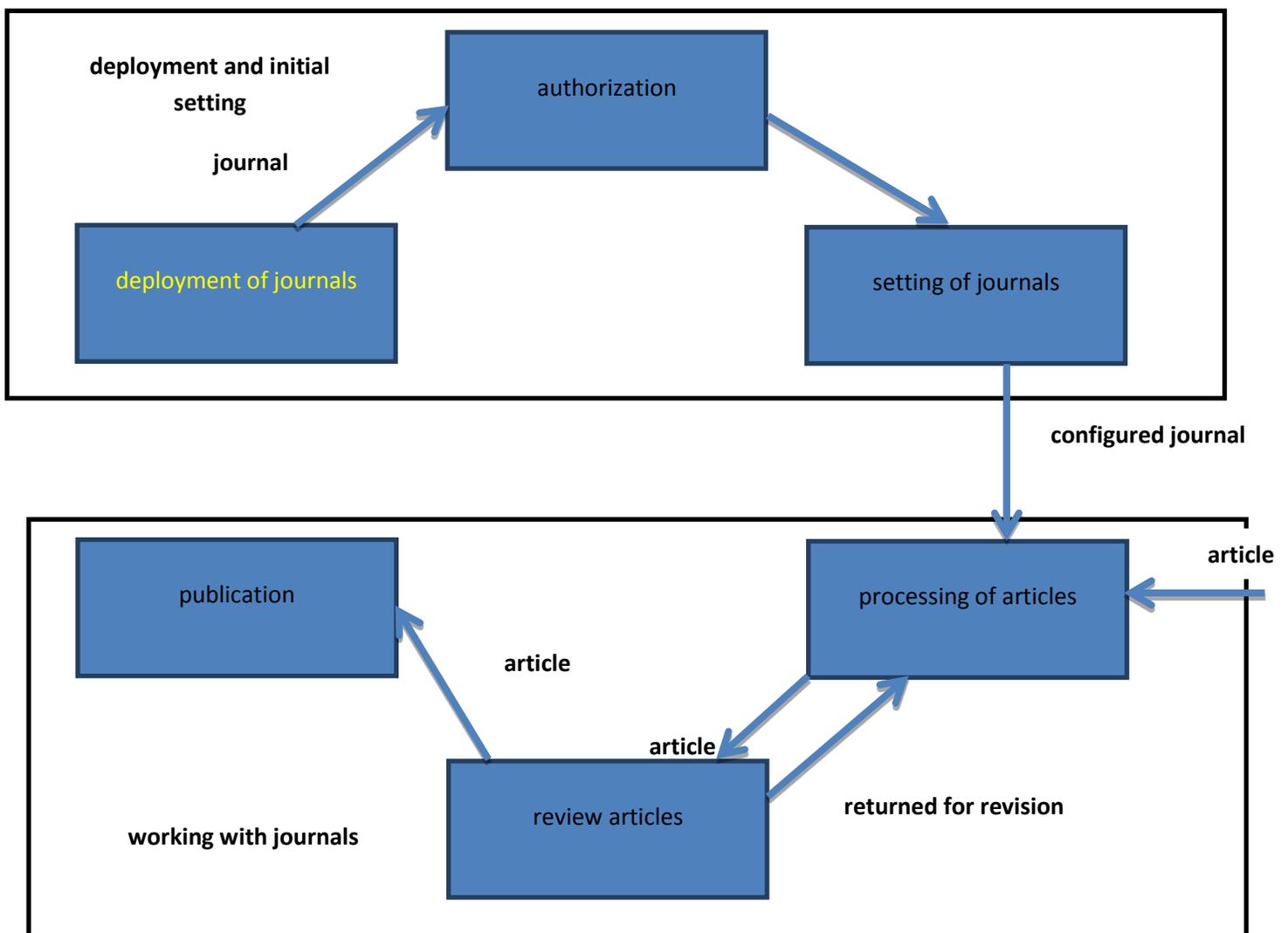
- the opportunity to implement different types of library documents;
- In addition to the catalogue founding focused enough flexibility to address various issues;
- Other convenience for the use of automated systems.

Directory information from the card using of the traditional library facilities MARC opportunity to enhance the speed of the search for information on the application of standards. The readers of the directory you will be saved from the time cards for hours looking for a job.

Periodicals area and use of the space under the following:(1st application)

Electronic model of scientific journals in the following interconnected elements:

- model of the expansion of electronic scientific journals;
- model articles;
- articles and print model;
- model of feedback on articles;
- model articles in scientific journals.



**1-pic. The general model of the electronic scientific journal.**

Since the electronic journal the proposed model does not depend on themes and platform in delivering the proposed produce presetting of the following general parameters:

- name of the journal;
- journal subject-matter;
- the interface language.

In addition, there are additional parameters, they are as follows:

Viewing the articles:

- full text;
- only names and annotation.

Requirements for the send articles:

- description of publishing rules;
- frequency of occupancy;
- the maximum number of articles appearing.

Electronic scientific journals to ensure the universality of the electronic scientific journal lists compatible with the requirements of the internal and subjects you want to help only the life cycle of the article:

- limiting the maximum level of the internal review stages of consideration by the Board of Directors revised to prevent a lot of time in the process.
- internal review the level of the minimum level received by the journal articles are as viable not to attract additional resources for the review process.

3 articles in scientific journals portal is allowed, which in turn allows you to adjust each time the shortcomings of his article. The original and corrected versions of the article is considered to be a single article for the following reasons:

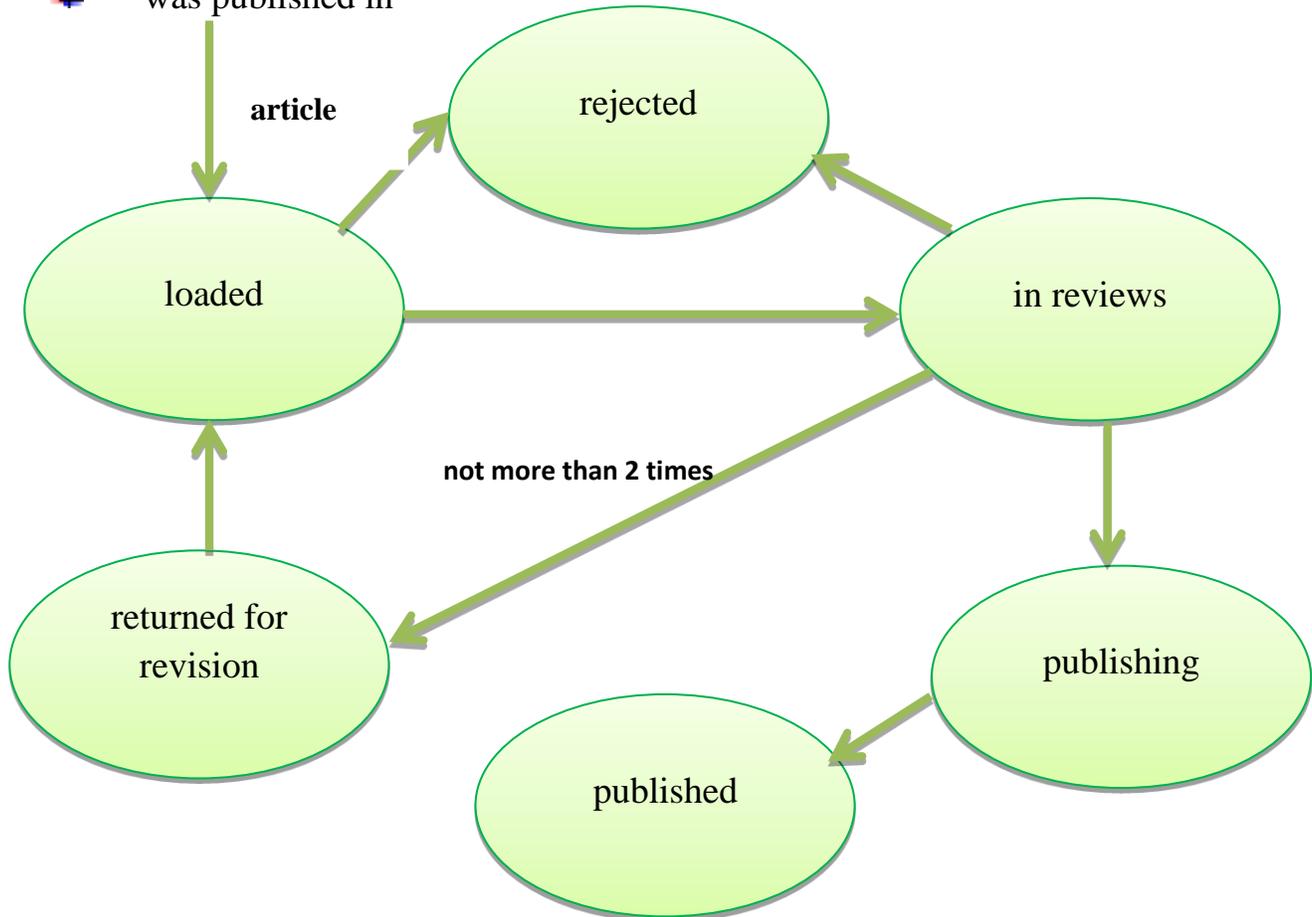
- article in terms of the work with the sum of its life cycle in a single cycle;
- in terms of the model of electronic scientific journal journal article is the first version of the article, the name of the portal.

- element of the life cycle of this approach is to create a general picture optimistically.

### LIFE CYCLE OF THE ARTICLE

E-model consists of the following stages of the life cycle of the articles in scientific journals:

- ✚ loaded;
- ✚ in reviews;
- ✚ returned for revision;
- ✚ rejected;
- ✚ publishing;
- ✚ was published in



**2-pic. The life cycle of articles**

Authors articles download information card "Downloaded" status. Regardless of the articles from number assigned to view the new editor of the journal article as such a status will be displayed on the dashboard.

Editor's article "uploaded" to change the status of the following status:

- "window" (the article is information indicating the card of presenter);
- "rejected" (a scientific journal article, or do not fit the needs of the HAC).

According to the decision of the peer review process 2 times 3 times that can be reproduced in the article "back to adjust the gaps" status can be changed. ZTA status after the transition to presenter by 2 status may not respond to the author:

- "publisher" (positive feedback from presenter);
- "rejected" (negative feedback from presenter, or HAC, and the case did not meet the requirements of the scientific journal).

### **MODEL OF ARTICLES STORAGE**

Each article (published in the battlefield, stays) card is available, through which the management of the life cycle of the article.

- ✓ article storage model has the following features:
- ✓ rejected articles after a certain period of time deleted from the database of electronic journals;
- ✓ as the current and out-of-date version of the article;
- ✓ outdated version of the scientific journal released the current version of the database will automatically be sent off

### **THE PUBLICATION OF ARTICLES AND MODEL**

Articles that will be assessed by the editor of the first, if necessary, will be critiqued (3 times). Then, authors will be able to download the portal, but do not publish.

The editor of the scientific journal is the main weapon in this article card. It is composed of the following areas:

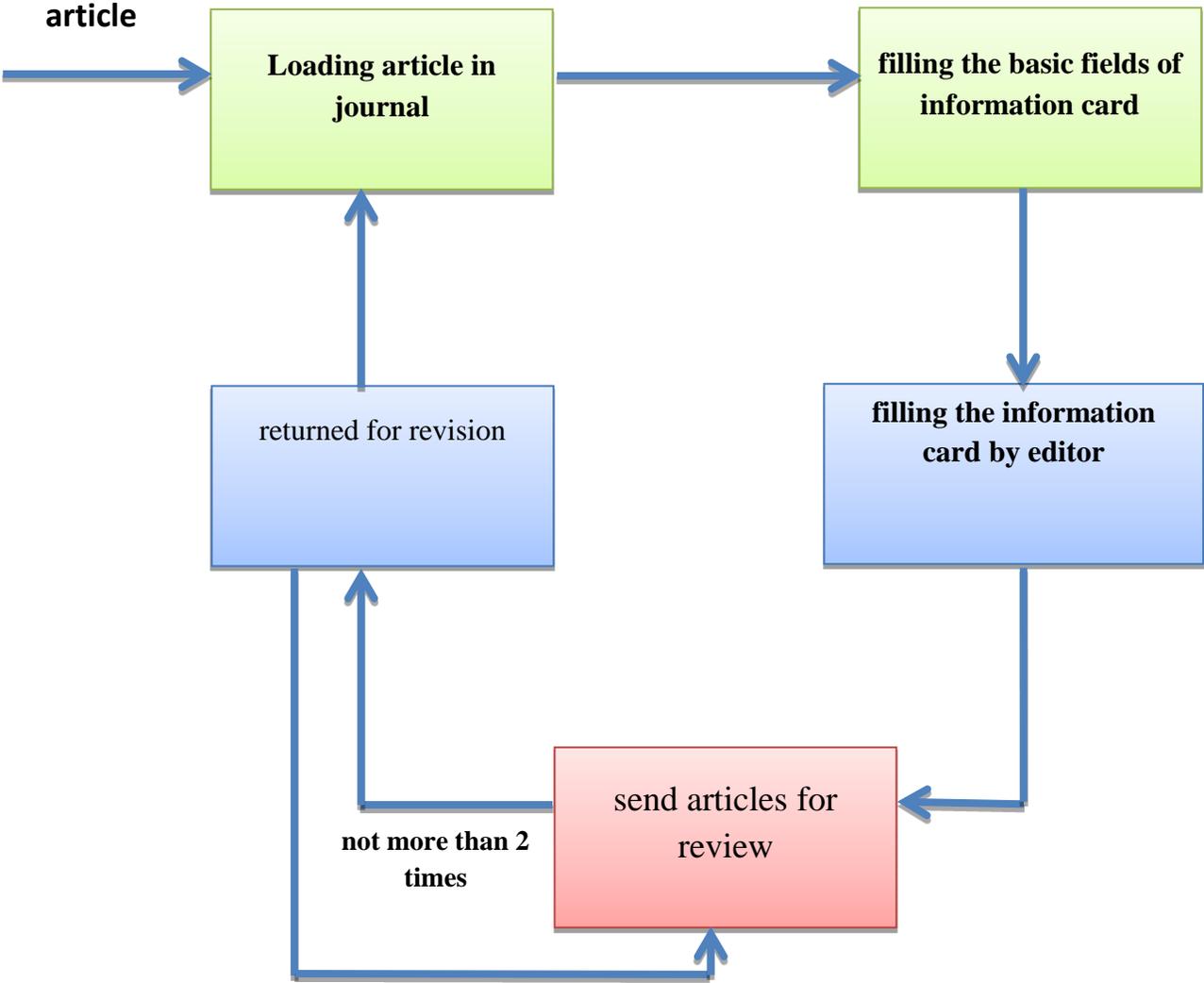
*The boot process works:*

- ✓ title (article, by loading its content portal);
- ✓ thematic section (loading articles by the author to the portal content);
- ✓ article (article by loading the portal's language);
- ✓ article (article upload information automatically filled in);
- ✓ life cycle stage (automatically loading the article "boot" is set);
- ✓ version of the article:
  - ✓ • current
  - ✓ • outdated
- ✓ loaded (the date assigned to an article in scientific journals portal will be automatically filled in)

| Status                     | Short information   | Order status               |
|----------------------------|---|----------------------------|
| Given                      | 3 to download a version of the article, the article is waiting for processing by the editor           | Feedbacks                  |
|                            |   | Was rejected               |
|                            |   | Waiting for printing       |
| Feedbacks                  | Article in one of the stages of peer review   | Will be returned to adjust |
|                            |   | Waiting for printing       |
|                            |   | Was rejected               |
| Will be returned to adjust | The author's shortcomings. This version of the article over the life cycle                            |                            |
| Was rejected               | The article was rejected, but the electronic database of scientific journals her life is not over yet |                            |
| Waiting for printing       | Electronic scheduled to be published in a scientific  | Printed                    |

|         |   |  |
|---------|---|--|
|         | journal article in one of the nearest numbers                   |  |
| Printed | Added to an article published in the scientific journal numbers |  |

**1st table. Status of articles**



**3-pic. Adoption articles**

## **MODEL OF ARTICLES REVIEW**

As stated earlier, article 3 times to go through a peer review. Presenter of article chosen by the Editor-in media card (limit: one man can not give feedback on the article and repeatedly).

Lists for the preparation of the article:

- returned to adjust the gaps;
- on presenter's side;
- re-written from publication of the stage

Article lists for downloading and evaluation of 0 to 5, which carried articles added to the current rating of:

- ✚ minimum featuring the author of the article will be automatically re-submitted for consideration;
- ✚ featuring articles automatically "expected to be published" held statusigaga
- ✚ the above-mentioned 2 types of articles, not left to the discretion of the editor.

## **MODEL OF PUBLISHING OF THE ARTICLES IN A ELECTRON JOURNALS**

- ✚ the model number of the journal founding has 2 options:
- ✚ paper card;
- ✚ journal editor.

The first option was discussed in the previous model, the formation of the second version number of the journal page, the following options are available:

- ✚ the subject of the number of journals;
- ✚ thematic sections;
- ✚ journal scheduled date;
- ✚ the number of journals published articles.

The date and the number of transactions and the rating assigned to the articles planned thematic section. These are taken into account in the suspension:

-  the number of articles in the journal issue;
-  story "in waiting" status to a maximum period of time;
-  rating of article;
-  the amount of pressure of the young authors.

The first 2 constraint "model articles" section. The amount of the pressure rating of articles and young authors journal articles and a number of low-rated articles will consider the need to publish the article has not been published.

## 2. The structure of how to create a database of electronic journals

Reading electronic journals online, in their article, the authors place their articles, articles feedback for electronic journal aims to create a database structure.

Electronic scientific journals database consists of the following tables:

**table 2. The list of database tables**

| <b>Table</b> | <b>Comment</b>                    |
|--------------|-----------------------------------|
| User         | Registered users of the portal    |
| Article      | Links for the uploaded articles   |
| article_card | the information cards of articles |
| Review       | review to articles                |
| Status       | Status informations               |

Below you can get acquainted with the area based on the abovementioned:

### Table of user

**table 3. Area of user tables**

| <b>Field</b> | <b>Comment</b>               |
|--------------|------------------------------|
| id_user      | The identifier of the user   |
| Login        | The login of the user        |
| Password     | The password of the user     |
| Name         | The name of the user         |
| middle_name  | The middle of the user       |
| last_name    | The last name of the user    |
| Email        | The adress email of the user |

Here is the table of actions for registered users, so these fields will be registered.

## TABLE OF ARTICLE

**table 4. Areas of the articles**

| <b>Field</b>  | <b>Comment</b>  |
|---------------|---|
| id_article    | The identifier of the article   |
| article_1/2/3 | Мақоланинг 3 та варианты (биринчиси актуал), ҳаволалар билан берилган |
| review_1/2/3  | Мақолага тақризлар (identifier)                                       |

This table is a variant of the article 3 and feedback.

## Table of ARTICLE\_CARD

**table 5. Areas of the Article\_card table**

| <b>Field</b>     | <b>Comment</b>   |
|------------------|--|
| id_card          | The identifier of the article card                             |
| id_article       | Article жадвалидаги мақолалар идентификатори                   |
| Name             | The name of the article  |
| Theme            | thematic section   |
| Language         | language of article  |
| Author           | author of article  |
| Status           | stage of the life cycle of the article                         |
| Version          | version of article   |
| loading_date     | loading date of articles (last)                                |
| publication_date | the planned date of publication                                |
| Journal          | The planned nudatabaseer of electronic journals of publication |
| Recommender      | Recommender to the articles                                    |

|          |                                 |
|----------|---------------------------------|
| Priority | priority articles on publishing |
|----------|---------------------------------|

The above table card, it is to track the status of their articles to the portal, the rating of the article, published when and where and so on a number of important data.

### Table of review

**table 6. Areas of the review**

| Field     | Comment                     |
|-----------|-----------------------------|
| id_review | Identifier of review        |
| Review    | text reviews                |
| Reviewer  | ID reviewer from table user |

Review table lists area, carrying out works of all time.

### Table status

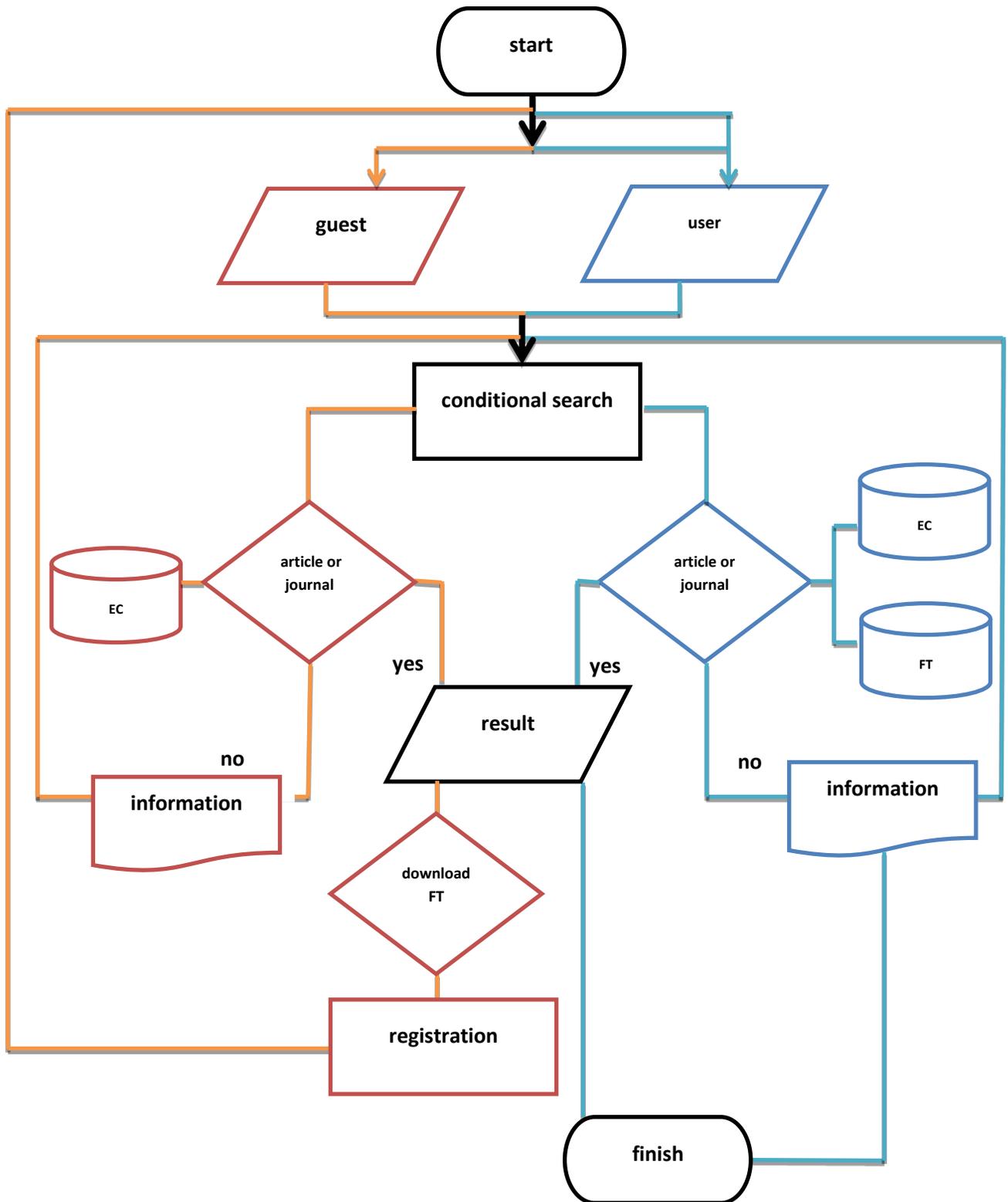
**table 7. Areas of the status table**

| Field     | Comment   |
|-----------|---|
| id_status | Мақоланинг ҳаётий цикли<br>босқичи идентификатори |
| Status    | Мақоланинг ҳаётий цикли<br>босқичи номи           |

Status table provides information on stage of the article.

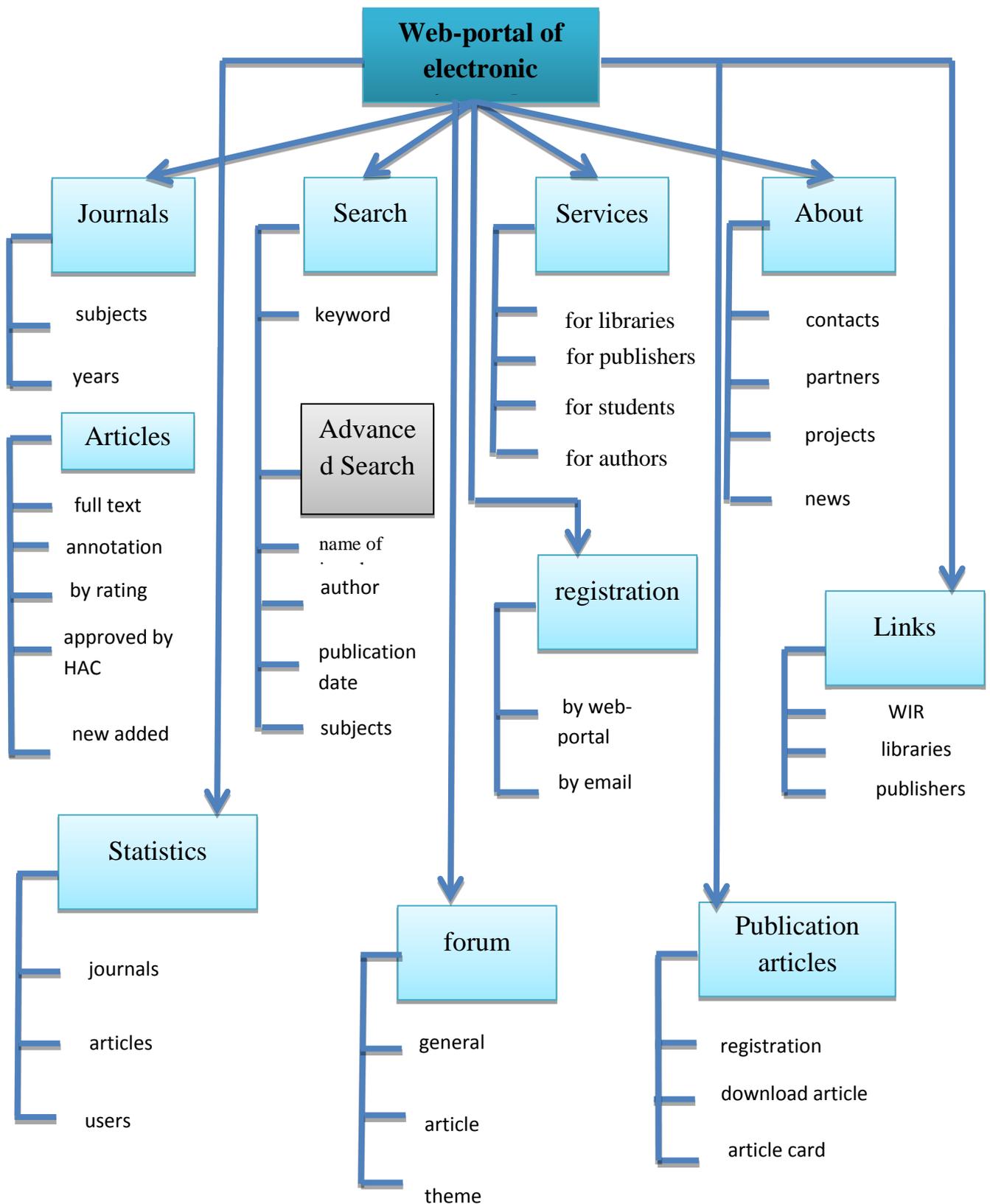
### 3. The algorithm for creating a database of electronic journals

#### Search algorithm of electron journals



Electronic logs into the portal the search algorithm carries out a search for a bibliographic element, that is, for example, according to a journal article, or you can search for a name. Search journal articles or effecting selection and pressed the search query. If the electronic directory, which is on the list. If you've registered, it will be submitted to the full text in pdf format, if you are not registered into, "register" message appears. Unregistered users only have an electronic catalog, or annotation.

#### 4. Structure web-portal of electronic journals



Electronic journals, Web portal users with the maximum level of service to ensure the target of a number of issues. First of all users of the portal is its interface should be simple and easy to use.

The following table through the portal, you can get acquainted with the structure and duties:

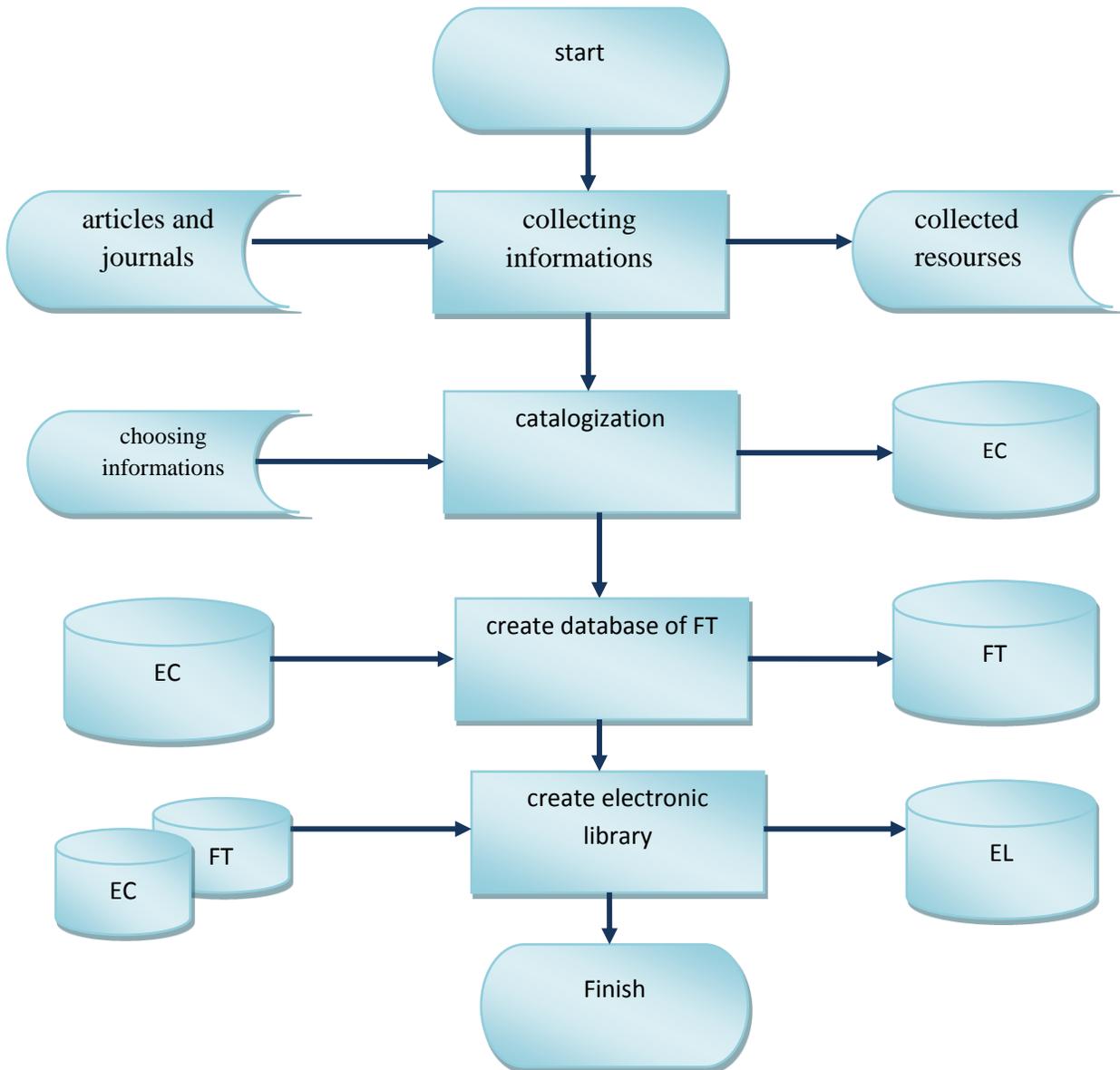
| <b>№</b> | <b>Units</b>         | <b>Description</b>   |
|----------|----------------------|--|
| <b>1</b> | <b>General theme</b> | The main portal page for all units, including journals, services, about us, statistics, forums, article publication, registration, search engine, links to South Africa. In addition to news, new journals can be found on the home page.  |
| <b>2</b> | <b>Journals</b>      | This block is a list of all the journals. Journals published in the fields of science and years (the years of the journal, in turn, journals) selected.  |
| <b>3</b> | <b>Articles</b>      | Blocks access full text articles, or at least will have the opportunity to get acquainted with the brief annotation, as well as articles in this rating was also selected. This, in turn, determines the quality of the journals. OAK-approved articles of the highest quality, powerful articles can be. New additions to the list of articles, the most recent articles are ready. |
| <b>4</b> | <b>Search</b>        | Search Engine 2, which consists of a simple search and advanced search system. By using a simple search engine query into the Search key word. For more accurate results you can use the advanced search system.<br>Advanced search system: <ul style="list-style-type: none"> <li>• You can perform a search on the name of the journal.</li> </ul>                                 |

|          |                 |  |
|----------|-----------------|--|
|          |                 | <p>At the same time, record the name of the selected list will be provided in the form of the form of the alphabet;</p> <ul style="list-style-type: none"> <li>• author of the wanted list in alphabetical order of the authors selected. This engine is able to see all the articles of the authors;</li> <li>• published in the journal will be selected from all the journals over the years. This is a list of journals published in and the opportunity to meet with their number; <ul style="list-style-type: none"> <li>• system of subject areas in all sectors. Search by selecting the appropriate field of science can be more</li> </ul> </li> </ul> |
| <b>5</b> | <b>Service</b>  | <p>This block libraries, scholars, students and authors allocated with the service.</p> <ul style="list-style-type: none"> <li>• Library services to subscribe to participate in the projects to be displayed</li> <li>• cooperation in the service of publications, journals, portal, portal electronic versions of print journals online referral services</li> <li>• download the articles in the service of the students, explain the researchers write articles, subscribe to services <ul style="list-style-type: none"> <li>• • authors publish articles and service order, the order lists the requirements of article</li> </ul> </li> </ul>            |
| <b>6</b> | <b>About us</b> | <p>There are contacts, partners, projects, and there is a possibility to get acquainted with the news.</p> <ul style="list-style-type: none"> <li>• contacts questions, contact telephone number, fax number, e-mail address, office address, and map;</li> </ul>  |

|    |                             |  |
|----|-----------------------------|--|
|    |                             | <p>Cooperation</p> <ul style="list-style-type: none"> <li>• The list of partner organizations (if available, and links to their Web sites);</li> <li>• a list of all the projects in the projects;</li> <li>• changing the latest news section, you can get acquainted with new projects</li> </ul>  |
| 7  | Statistics                  | <p>This block journals, articles and statistics. This is the highest factoring Maveria, journals with an opportunity to familiarize themselves with the most powerful articles. As well as the number of registered users and the number of users logged in to the portal users can be found on the statistics. Although the number of visitors and users to the portal allows you to determine the rating of the portal</p>   |
| 8  | Forum                       | <p>Forum is divided into 3 categories: general and subject of the article</p> <ul style="list-style-type: none"> <li>• Repeated errors on the forum or news tips</li> <li>• articles of the articles on the forum Get answers to your questions, share opinions;</li> <li>• thread Forum, which will be presented in a variety of themes. Who is interested in the subject, that can participate in the forum on the topic selected in the same direction</li> </ul> |
| 9  | <b>Registration</b>         | <p>List 2 is carried out in the same way: through the portal, and e-mail</p>   |
| 10 | <b>Printing of articles</b> | <p>It is necessary to block publication of the article parts, the authors portal upload their articles and journal</p>   |

|           |                       |  |
|-----------|-----------------------|--|
|           |                       | <p>publisher, first of all, you need to register. Then this article will be uploaded to the portal is not yet published. Review articles of the authors of their cards. According to the results of the peer review articles published or rejected. In order to be able to monitor the user's information card</p> |
| <b>11</b> | <b>External links</b> | <p>More opportunities for libraries and publishers to get acquainted with the work of the global information resources, sites, libraries, publishing links</p>   |

## Creation of a digital library of electronic journals



The creation of an electronic library of electronic journals are carried out:

- information is collected, users from articles, journals;
- all areas periodicals choose the appropriate metadata, and begin the work of cataloging;
- electronic directory is a database of full-text resources;
- formation of the electronic catalog and full-text database through the creation of a digital library of journals.

## **Conclusion of the chapter II**

Summing up, the formation of a database of electronic journals in the first journal covering the subject areas and taking into account the selection of articles about them coming in order to ensure the high quality of the articles published in a peer review of the requirements of the publication of the article, the article title, article the ability to download and its actual importance.

Embedded electronic journals to the portal's intuitive, easy search system, users who want maximum information to help find and scientific resources for the more advanced step of conducting of the opening of the world of open sources of information systems for delivery of information to users through links standards is desirable.

This chapter consists information about how to create an electronic database of scientific journals and portals developed algorithms and structure of the portal, the model database of articles in journals. Articles in electronic journals prefer to publish in print journals is that, here are the author's own article, 2 times and published in the journal in which the article to correct deficiencies in the information (the number in the current issue of the journal in which the labels are removed, the article subject-matter of the number of articles) can be placed. In addition, after the author's articles have been published. The number of applications received by the users will be able to follow up on a regular basis. Forums are various issues to answer questions by the formations, scientists and academic researchers to exchange ideas with us. As a result of the development of science and knowledge, the rapid spread of the way of knowledge, innovation and lead to an increase in the number of scientists.

## **CHAPTER III. FUNCTIONAL AND ORGANIZATIONAL STRUCTURE OF WEB PORTALS OF E-JOURNALS**

### **1. Functional structure of web portals of e-journals**

Functional structure - English (functional structure), reflecting the relationship between the functional elements of the business process means. Elements, at least, activity time and localized border business process-oriented movement, and understood the meaning of the first phase.

Functional structure –managing functions of the functional joints, and based on the distribution among the leaders. He complication arise in connection with the development and specialization.

The functional structure of management guidelines will be qualified, but the other does not comply with the principle. With the increase in the number of joints in functional narrowing of the scope of issues to solve each level independently. The essence of the problem, each syllable first The following are not to be interested in solving the issue, but there is also a link in this problem can be solved based on sufficient and may not be complete solutions. This is complicated, reduced the effectiveness of its management. [16]

The starting point for the description of the mental activity of methodological aspects are as follows:

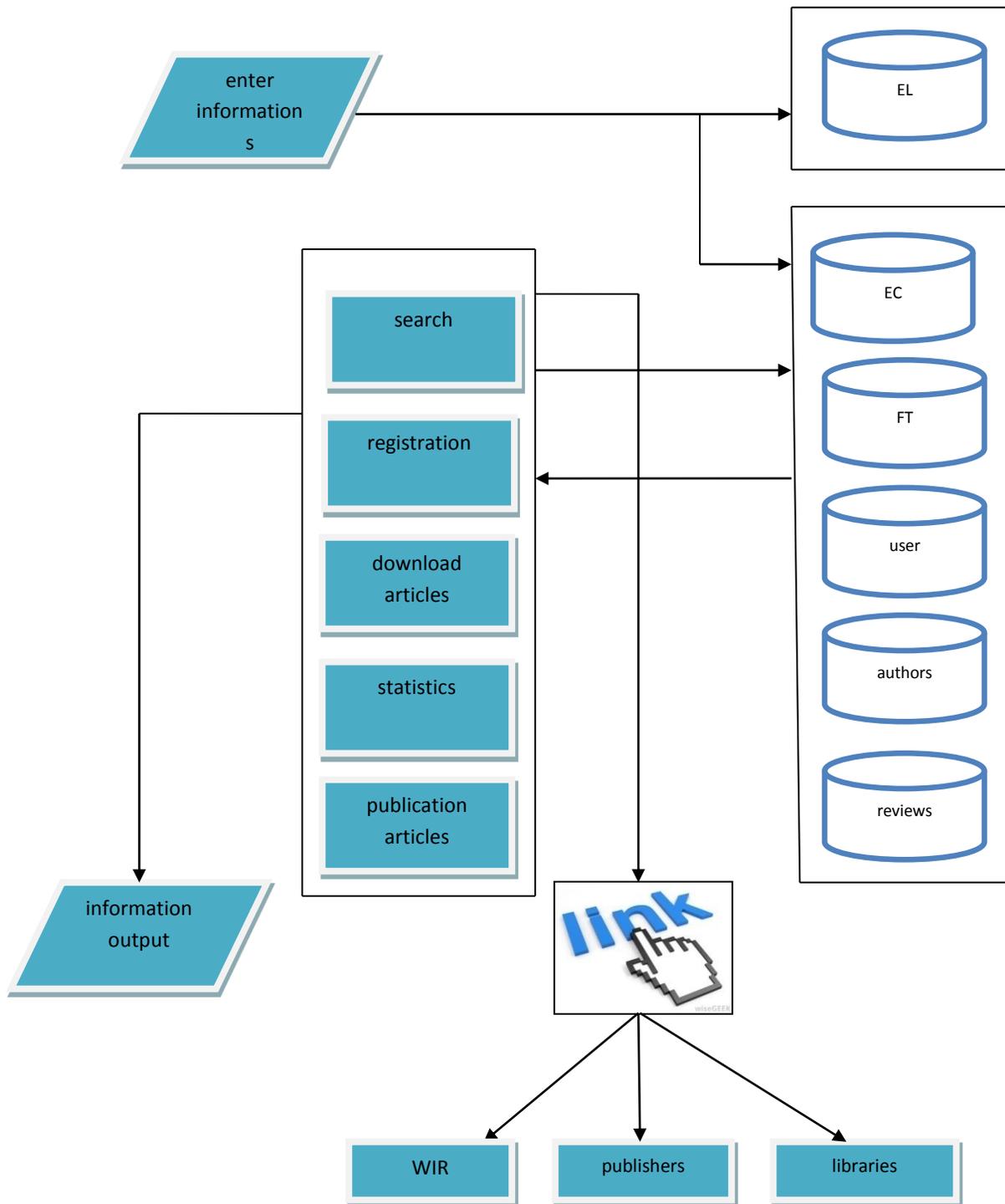
- Typology of elements (directed search of material or product characteristics);
- types of relations between the elements (genetic, functional and other). They are characteristic of the order of the elements of mutual dependence.

Elements are the same (basic and advanced) and the second level can be arranged. Function corresponds to the structure of various elements of different levels. According to the rules of the elements in the form of high-level functions of the particular are different.

The concept of relations between the elements of the functional structure will serve as a tool to describe the complex shape of the activity. This means an activity

which helps to follow the movement of the lens characteristic of the species and their characteristics. They are among the types of relationships and communication between the unit allows you to provide such a system. **[19]**

## Functional structure of web portals of e-journals



**1. Search.** Search through the database and electronic library.

**2. Register.** Members to participate in the forum on the portal will be able to download full-text articles, subscribe to journals and the like, a number of steps required for registration.

**3. Articles.** By the authors of the articles, review, and the publication will be uploaded to the portal.

**4. Statistics.** Statistics portal is carried out in 3 categories:

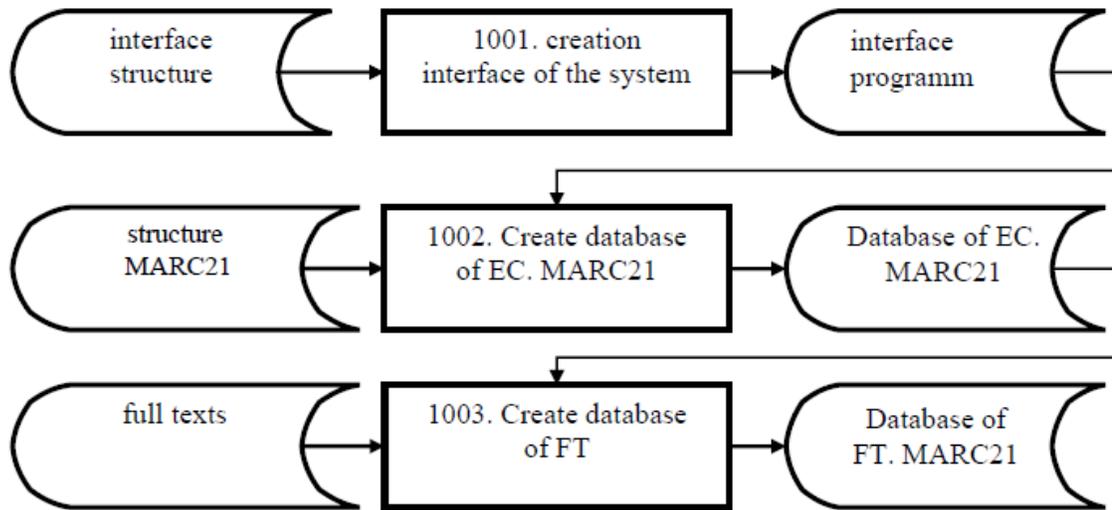
- periodicals (these statistics to determine which has the highest factoring Mavera, journals);
- articles (articles with the most powerful and high-level statistics to understand);
- users (the portal to determine the number of users).

**5. data.** The results of the information users and the administrator are in couple of parts.

**Link.** In addition to automatically search the portal directly through here facts of global information resources, publications and library sites.

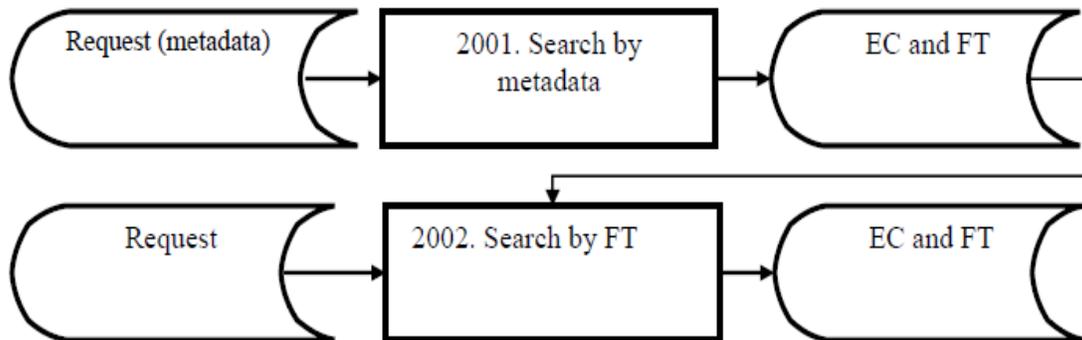
## Electronic journals, Web portal layout.

### 1. System of entering of information



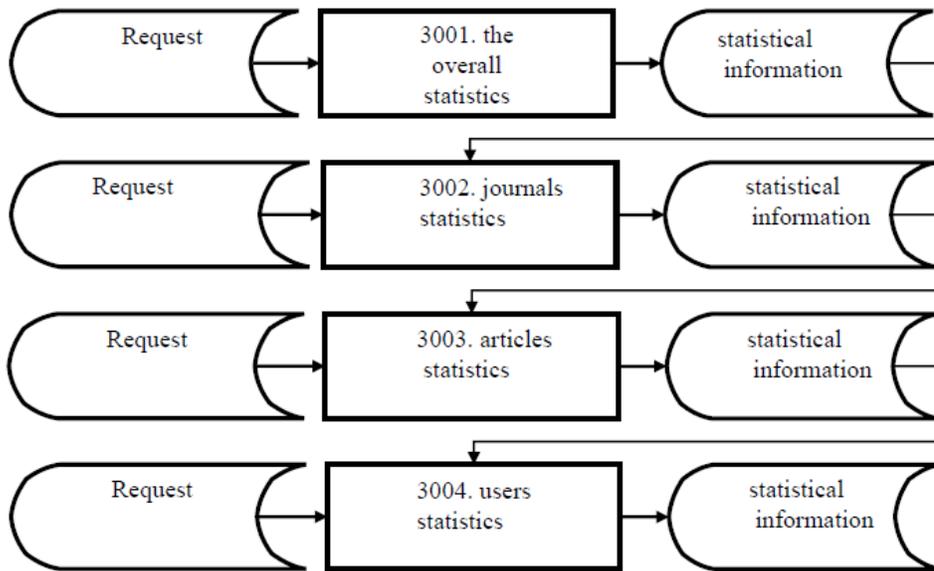
**Resource database. The formation of the electronic catalog, as well as to create a full-text database.**

### 2. System of searching of information.



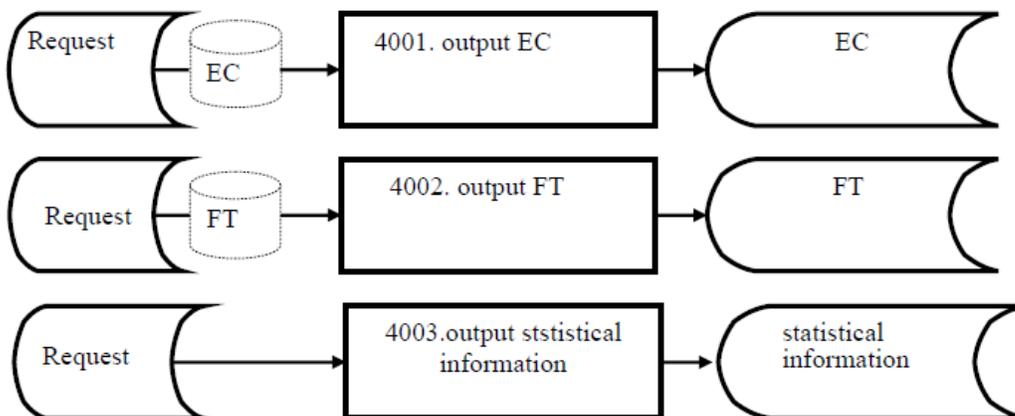
**Electronic catalog and full-text search database resources**

### 3. Statistics system.



Articles and journals will help them to be downloaded through the identification of indicators to determine the rating of the journals and authors. Portal rating registered by the statistics.

### 4. Taking of information.



The result after the execution of the request.

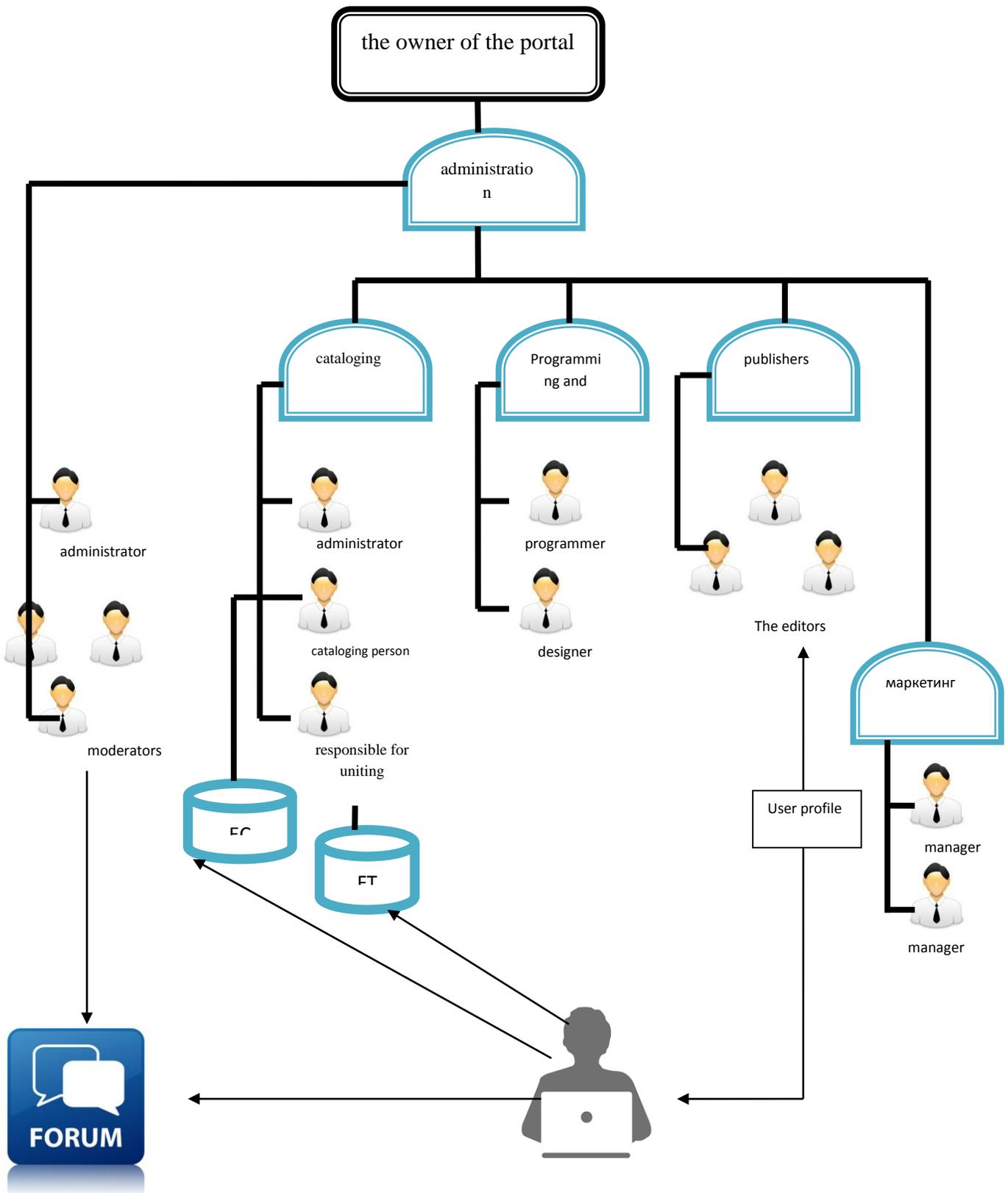
## **2. The organizational structure of the Web portal.**

*Organizational structure* - the company sections, the interaction between them, determines the distribution of functions. The organizational structure of all sections and employees will be working in conjunction with each other. The organizational structure of the work of the organization in this enterprise efficiency, accuracy and speed of execution of the works, even if it leads to a saving of time and expenses.

By the automatization of Libraries work, the new system is operational risks, changes in the organizational structure of the library is normal. However, this does not mean we are going to change the whole structure completely, more jobs were added, old ones removed or does not work for changes. In contrast, the electronic scientific journals in a single web portal is still enforced in practice, it is expedient to make the beginning of the organizational structure, business areas, punctual functions complete structure of communication between departments should be covered.

Below you can see the organizational structure of the electronic journals, Web portal:

## The organizational structure of the Web portal of e-journals



Above is shown the portal of electronic scientific journals private organizational structure, in which the workers and the distribution of functions between sections work are able to work.

### **Functions:**

- 1. The owner of the Portal** –can be a person person or organization. Job portal workers distributed control functions are carried out;
- 2. The administration portal** to all the works manager, managing the work of all sectors, administrator and moderators. Portal will be the distribution of the news department and workers, with a permanent status news portal statistics function;
- 3. Cataloging department** - administrator, cataloging and creating full text. The library portal system, all the resources are placed in the electronic catalog. Their main task is to create an electronic catalog, the full text;
- 4. Programming and design** to ensure the safety of the group uses to update the software programmers are engaged in and update the design of the portal, and added news into real web designer;
- 5. Publisher** – receive articles, review, peer review and publication of dealing with the Editors. They see articles coming from users are permitted to print out and give feedback on them, or on the contrary, reject the article Reviewers group;
- 6. Marketing's department** - business manager

### 3. The web portal application.

#### A database of electronic journals.

This portal Technologies Electronic Libraries, or remote access to the Internet connection. Windows, Linux and Mac OS operating systems can access.

Portal is based on the PHP web programming language, blasting up the Apache Web server. Web server is now placed on the site of active.uz.

Database has 2 different methods:

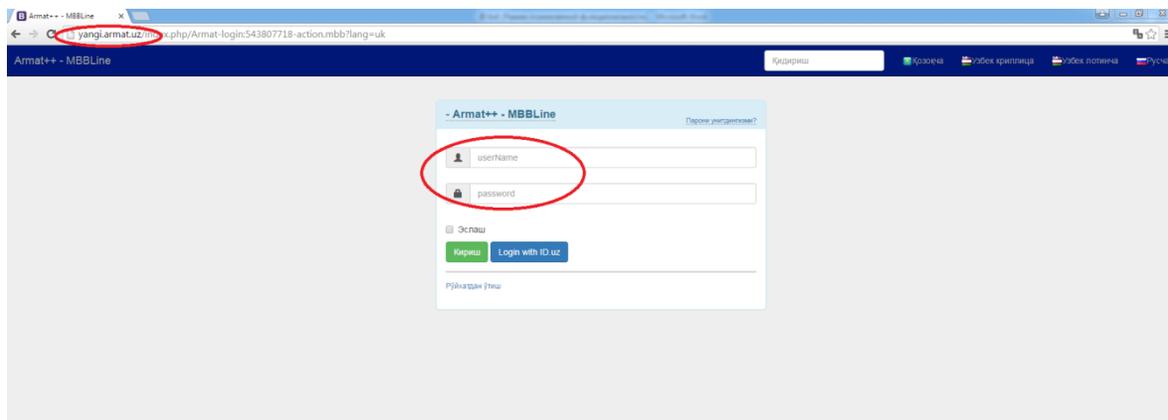
1. The electronic library of journals. Exploded into ARMAT ++ system can be loaded into the database;
2. The journal database portal. Direct search via the search.

Electronic database and full-text databases.

#### Entering of the information in the electron library.

Log in for the first connected to the Internet, the browser is launched (for example, Google Chrome), the URL for the portal include: see.uz.

Entered the portal, an electronic key system of ARMAT ++ libraries and cataloging of automated instead of the username and password to access.



Cataloging Workstation treachery, the following window will be created. "Working page" through periodicals, select the "Create" button, make sure to enter the field of periodicals.

| №   | Field Name                           | Input Field          | Action |
|-----|--------------------------------------|----------------------|--------|
| 20  | Narsi                                | <input type="text"/> |        |
| 24  | Standart nomi                        | <input type="text"/> | +      |
| 40  | Kataloglashtirish manbasi            | <input type="text"/> |        |
| 41  | Nash tili                            | <input type="text"/> | +      |
| 44  | Nash etgan mamlakat kodi             | <input type="text"/> | +      |
| 60  | Bilimlar soxasi                      | <input type="text"/> | +      |
| 62  | Fanlar                               | <input type="text"/> |        |
| 72  | Predmeti tematik kategoriyalar kodi  | <input type="text"/> |        |
| 90  | Muallif belgisi                      | <input type="text"/> |        |
| 100 | Muallif haqida ma'lumot              | <input type="text"/> | +      |
| 110 | Asosiy bibliografik yozuv sathavhasi | <input type="text"/> |        |
| 245 | Sartavha to' gnsida ma'lumot         | <input type="text"/> |        |
| 246 | Sartavhaning boshqacha shakli        | <input type="text"/> |        |

Fill all the required fields, and the area under the "View" button, the entered data, error or "save" button to keep. After that, the information will appear in the electronic catalog.

**Note:** this is where the process of cataloging the file, the full text is also included. At the same time, to all users, even if they are not registered, along with the resources of the electronic catalog will also be available for free download.

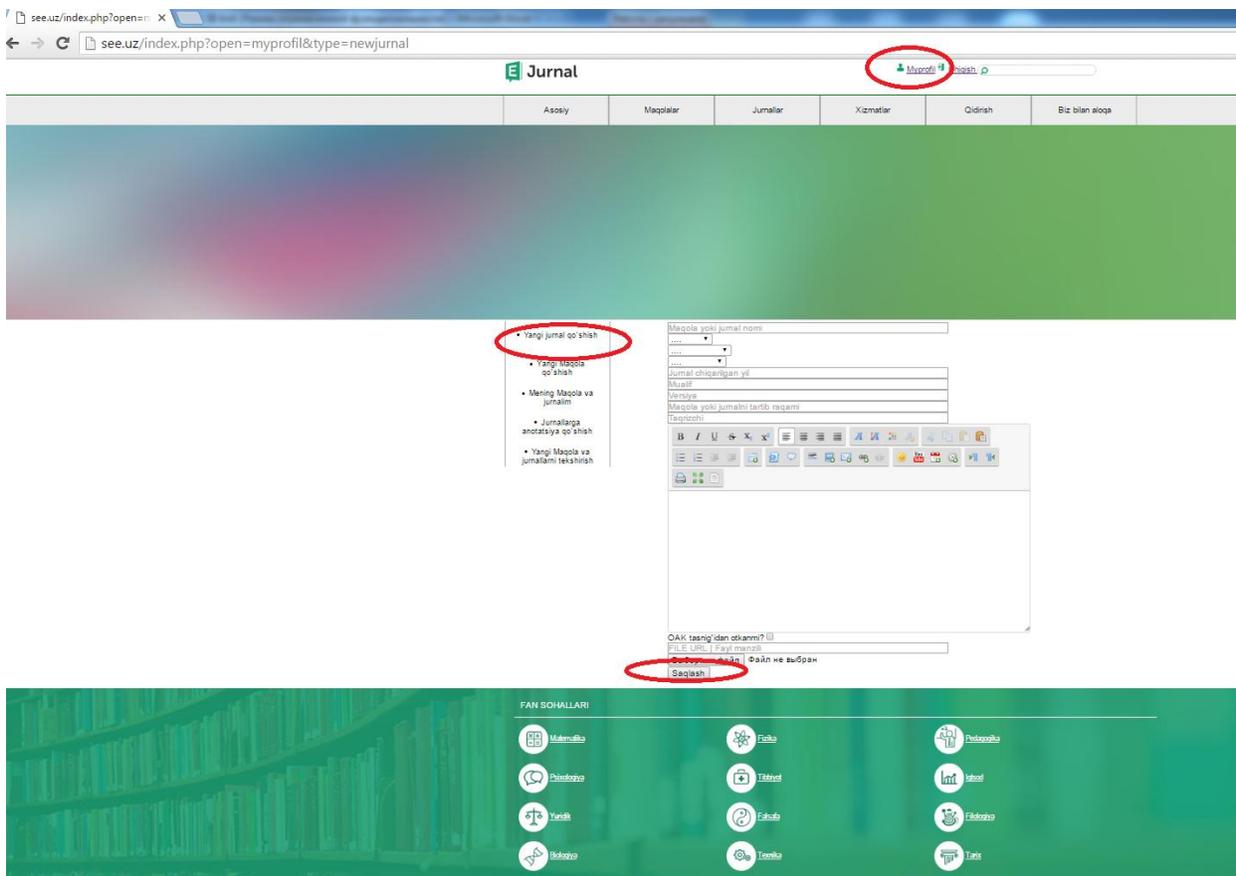
### **Entering of data through the portal database administrator.**

See.uz browser > the "Tag" button. Enter a user name and password.

Click "The new journal" after that form fields will be completed. Download a file with the "save" button, enter the database.

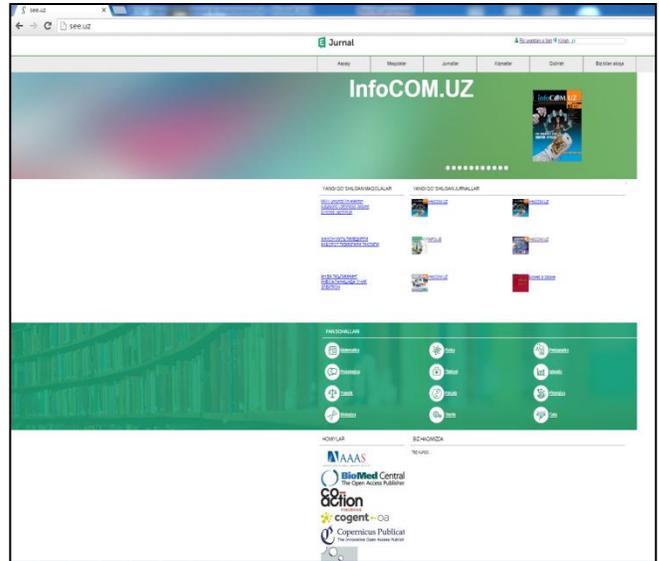
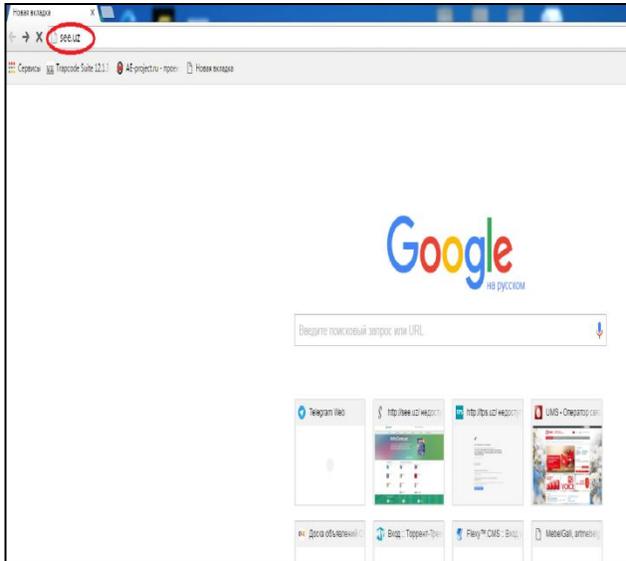


Click "The new journal" after that form fields will be completed. Download a file with the "save" button, enter the database.

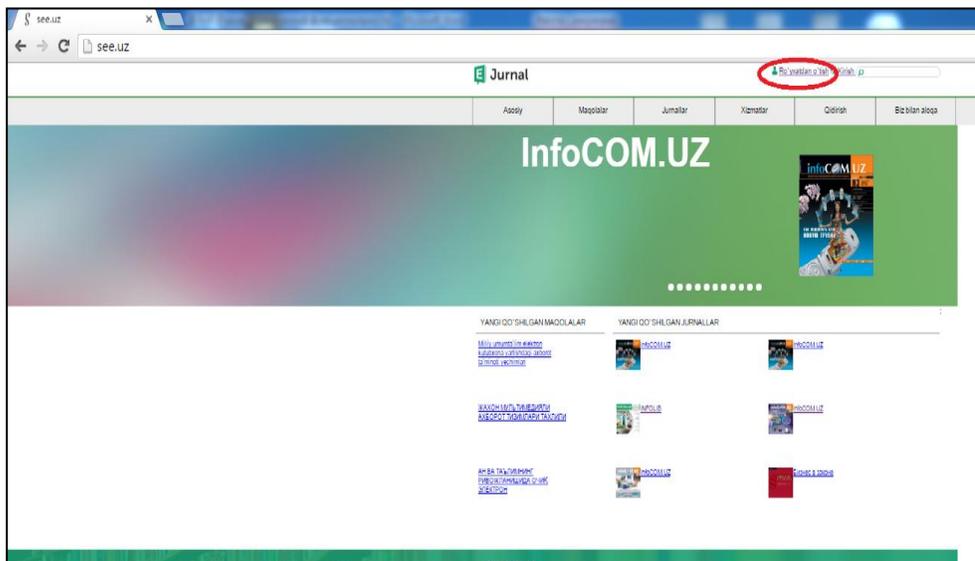


## Work with the Web portal.

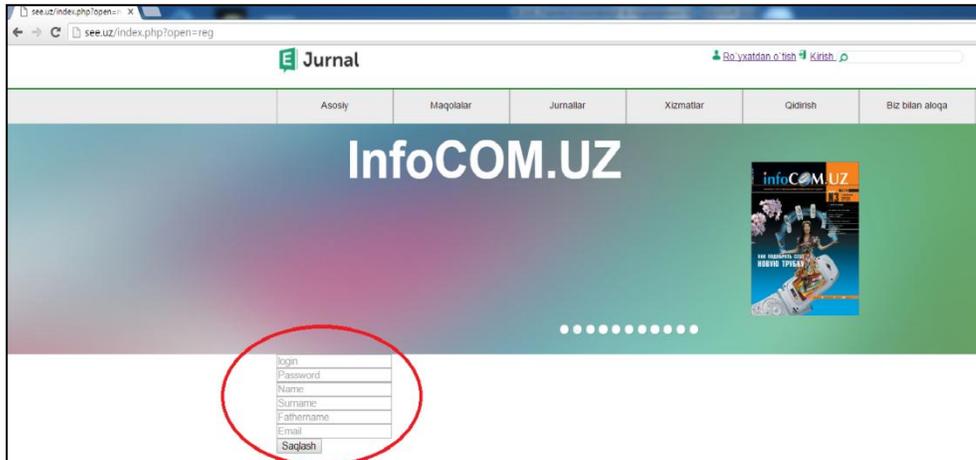
Log in for the first connection to the Internet, the browser is launched (for example, Google Chrome), the URL for the portal include: see.uz



The full text of the information and the use of a portal on a regular basis if you intend to download the "register" button.



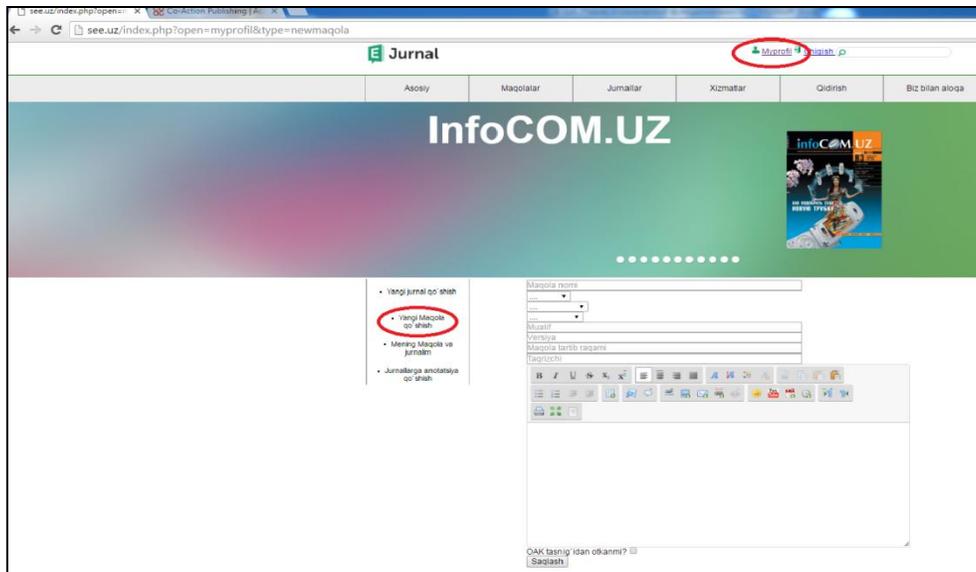
"Enter" is pressed, the following areas will be created. This button shall be pressed to fill the fields on your registration e-mail message.



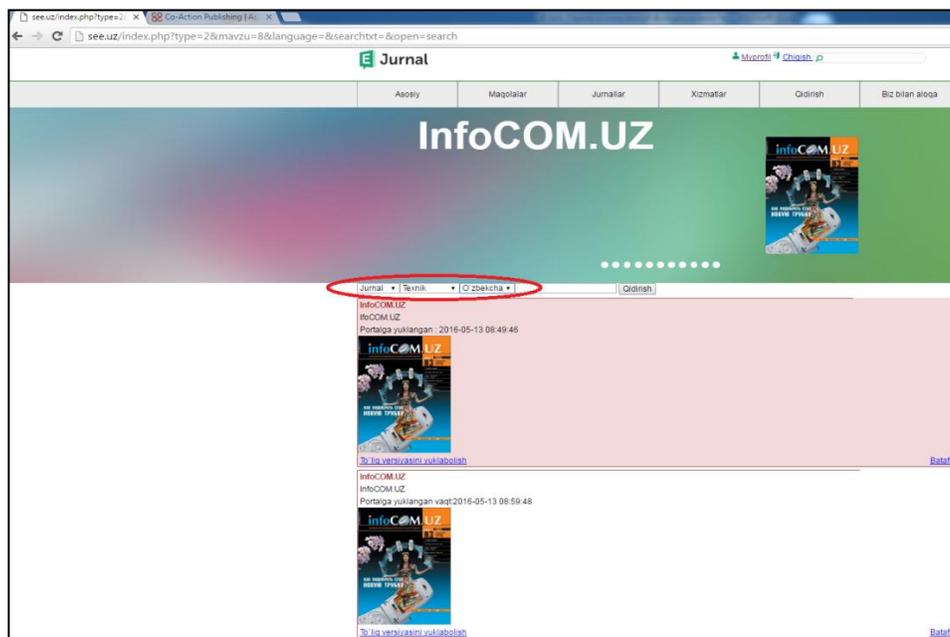
Registered user "access" platform as a user to enter a user name and password, and journals, and have the text.



Registered user's personal profile. This profile through his articles and journals and download articles and feedback, and the steps that will be able to monitor the status of the article.



Selected journal articles and the implementation of search and advanced search. This makes it easy to search several much more.





# Advanced search

Armat++ - MBBLine

yangi.ariat.uz/index.php/Armat-asearch:543807718-action.mbb

Armat++ - MBBLine ()

Izlash

Kengaytirilgan izlash

Intellektual izlash

Izlash turlari

Menu

Sozlashlar

Chiqish



KOD

Ochliq so'zlar

Asosiy Muallif

Ham mualliflar

Sarfavha

mavzu bo'yicha

Nashr etilgan yil

Izlash

### **CONCLUSION OF THE CHAPTER III.**

In this chapter, electronic journals, Web portal, the software is ready for functional and organizational structures and work instructions.

Portal performs a number of functions, which is based on the opportunity to work with a simplified form for all users of the portal. 2 shows the same method to create a database of electronic journals. The man who wants to see a database of the portal, or through the creation of a library of electronic journals can also be formulated.

I used the ARMAT ++ system to founding a electron library. This is a new and much better and modern version of the last one called ARMAT. It makes the work easier and more comfortable with using of (AIU) automatized functions. This makes a whole process of working with any kind of information easier.

## CONCLUSION

The development of science and education, the importance of the use of electronic journals and log them into the role. As a result of the development of information and communication technologies such resources, and a growing need for electronic versions of journals. Various thematic articles in various languages through the effective use of scientific studies, books, training manuals to create. Researchers their articles published in journals, log in to your feedback on articles by proofreaders, an assessment of the level of their scientific work, advice necessary to carry out work on the monitoring system that allows the rapid spread of information, and the opportunity to increase the quality of scientific work. Only the use of open systems in higher education institutions, teachers, scientists, researchers not only a significant role in the training of students, undergraduates and strengthening independent knowledge, to expand the range of knowledge, of course, additional information may be familiar with the scientific research understand the nature of the work, and play an important role in the creation of news. This, in turn, a basis for expanding scientific research.

Increasing the electronic versions of journals and online There are many reasons for the present system, the production of low-circulation journals distributed to all the readers and this is the biggest problem. If the journal is also published in print and electronic form presented them to use the system, this would be a very great achievement. The journal published in different parts of the province to another is unlikely to reach the region. Who knows. As a solution to create e-journals portal, log on, no matter where the distance to be able to familiarize with the latest scientific data, it would be equal to the right. Taking into account these issues to create a database of electronic journals and electronic scientific journals aim to create a web portal. In order to solve these issues in the next chapter algorithm to create a database of electronic journals, models, structure and structure of the web portal will be developed.

Summing up, the formation of a database of electronic journals in the first journal covering the subject areas and taking into account the selection of articles about them coming in order to ensure the high quality of the articles published in a peer review of the requirements of the publication of the article, the article title, article the ability to download and its actual importance.

Embedded electronic journals to the portal's intuitive, easy search system, users who want maximum information to help find and scientific resources for the more advanced step of conducting of the opening of the world of open sources of information systems for delivery of information to users through links standards is desirable.

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