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## **Some questions of design of library and information technologies (Based on experience of universal scientific libraries)**

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**Abstract.** The introduction of new technologies accelerates globalization and embraces new service areas. Trends in globalization in the national republics are closely monitored and studied, and concrete steps are being taken towards integration. Presenting national content and exploring national resources are important steps in the process of integration into global networks. Theoretical issues of designing library-information technologies were given in the material conference. At the same time, information was provided about the works carries out in the direction of designing library-information technologies in the world and in our country. Development perspectives of library-information technology design in the field of library activity optimization are discussed.

**Keywords.** library-information technologies, designing, optimization, information culture, cultural cooperation

### **Introduction**

The National Library of the Republic of Azerbaijan systematically studies modern information processes and works on global trends, supports innovative projects. In accordance with the status of the national library, one of the important activities is the placement of national information resources on digital platforms, the preparation and implementation of the national information strategy.

If you pay attention to the history of mankind, you will notice that the inventions that form the basis of society are assessed by the impact created in the society. This economic development has led in society to the classification of eras as an agricultural, industrial and information society. The rapid development that emerged with the onset of the industrial revolution continues to this day. Knowledge and information constitute the backbone of the information society. The fields of activity related to the collection, storage, processing, use and transmission of information in the information society constitute the backbone of the economy. Information, which is the main element of the information society, has already become an integral part of our life. Looking at the definitions of the information society, it becomes clear

that the production and consumption of information through information and communication technologies (ICT) is the backbone of the information society.

Design, planning and application of library and information technologies is a priority direction of the state policy of library activities. The use of the technological model of information services in libraries in the information society has recently become widespread. However, it should be noted that the creation of a technological model of a library and information service is at the design stage. Each developing state allocates financial resources in the required amount for the modernization of library and information activities for the implementation of library policy. Currently, professional programs and projects are being implemented to optimize library and information activities.

It is difficult to imagine modern library work without new information and communication technologies. The use of information and communication technologies in library work, as well as in a number of areas of human activity, leads to the acceleration and optimization of traditional library processes. If you look at the evolution of the design of library and information technologies, digital libraries were mainly created in the 70-90s of the last century on the basis of the social order of the society and went through an evolutionary path in accordance with the development of society.

Digital libraries were created as a result of the development of "methods for creating, analyzing, processing, storing, protecting, searching and distributing digital information. Among these works, two research papers that stimulate future research should be especially noted. The first work was carried out by the American Institute for Research and Projects of Research and Development) - W. Bush's article "How We Think", published in the Atlantic Monthly magazine in 1945. In this article, he first put forward the idea of creating electronic libraries and determined its functions and tasks. The second and research work is the book "Libraries of the Future" by Y. Licklider, another American scientist, the author of the concept of an open network for the first time in the world. In this book, the scientist put forward a general concept of digital libraries. Analyzing the experience of America, Europe and other advanced countries, he identified three stages in the evolution of digital libraries. we see that it develops in the direction of:

1. Based on national projects
2. With the financial support of the European Commission
3. Creation and functioning of electronic libraries with the financial support of individual state structures and public organizations.

The first electronic library is Project Gutenberg, created in 1971 at the University of Illinois Computing Center under the direction of Professor Michael Stern Hart. This project gained great popularity in a short time and began to be applied in other countries, including Russia and our country. In many countries, the creation of library and information technologies is carried out on the basis of national projects. Libraries, universities and government agencies are involved in these projects.

In the context of the transition to the information society, the experience of the Azerbaijan National Library named after M.F.Akhundov is of great interest. The National Library, which began to develop and apply information and communication technologies in its activities in the last years of the last century, today has achieved many achievements in this area. The first step in informatization of the library was the project "Connecting the Azerbaijan State Library to the international INTERNET network". This project was implemented in cooperation with the Information and Telecommunication Scientific Center of ANAS (now the Institute of Information Technologies) at the expense of USAID and with the financial support

of the Eurasia Foundation. Thus, the foundation of the modernized library construction was laid in the library.

The goal is to implement the following tasks within the framework of the project:

- open an INTERNET-room according to modern standards;
- obtain the necessary equipment and software to connect to the global network;
- conduct staff training;
- to enrich the fund with new types of information carriers according to the profile of the library;
- constantly work on the organization of new types of services to provide information to its readers.

Since July 18, 2000, after all the preparatory work has been carried out, an Internet room that meets modern requirements is available to readers in the State Library with the financial support of the Eurasia Foundation at the expense of USAID. In addition to providing services to their readers by the libraries of the world and the world's information banks, the librarians implementing this project are already thinking about transferring information about their collections to the readers of the world. In this regard, he is working on the implementation of AKIS. To this end, the library, together with its partners, is engaged in the study and research of automated systems, and in accordance with world standards, a system that will work internationally - VTLS Inc. (USA) decided to be elected. After that, the library turned to 3 organizations - the Eurasian Foundation, ACIYF and IRTCL with the project "Creating a machine-readable electronic catalog" and was able to receive financial support for the project. After the implementation of organizational issues within the framework of the project, librarians began to create a database of bibliographic records of current books purchased in our language in the MARC 21 format using the VIRTUA program.

While implementing the project of creating an electronic catalogue, the library management starts to work in parallel on the creation of full-text resources of certain books. Due to the lack of budgetary funds, the library management is first of all studying ways to find extrabudgetary funds for the purchase of used equipment. So, he took part in the competition of the Gutenberg-Azerbaijan project announced by ACIYF and became one of the 3 winners of the competition. Librarians create full texts of the works of Azerbaijani classics for the National Library. At the same time, the library presents a new project to the Eurasia Foundation USA. As part of the project, a team of librarians is sent to Tbilisi, Georgia, to attend a two-week intensive course at the "Regional Center for Advanced Training of Information Workers in the South Caucasus". Graduates who studied in America on library and information programs receive lessons at the center. 2006 is a significant year in informatization and modernization of the National Library. The official website of the library is being created. At the same time, the library makes available to readers databases created in recent years, either an electronic catalog or full-text resources. Thus, the National Library provides its services not only to its readers, but also to users all over the world.

In 2012, the Electronic Library project was implemented with the support of the Ministry of Culture of the Republic of Azerbaijan. The ALISA (Automated Library System of Azerbaijan) system, organized by ULTRA, is a web-based system developed using the latest technologies. The system is based on MARC 21, ISO 2109, UNICODE, Z 3950 and other standards and protocols and includes all functions for the complete automation of any national, public, private, university, school library processes. A new CAMO program has been developed and installed on the library server, which allows you to search by several parameters.

### Conclusion

In 2016, in order to popularize Azerbaijani music in the world and in the country, the Ministry of Culture and the National Library launched a joint project "Propaganda of the Azerbaijani musical heritage in the world." More than 300 musical works of Azerbaijani folk songs and composers, as well as audio recordings of outstanding Azerbaijani singers in mp-3 format, are posted on the international music website "Music Library of Petruchi" ([www.impls.org](http://www.impls.org)). National Library "Heydar Aliyev period of the history of Azerbaijan (1969-2019) 50", "Proceedings printed in the Azerbaijani language in Latin script on the basis of the decree of the President of the Republic of Azerbaijan "On the implementation of mass publications in Latin in the Azerbaijani language". language", "Audiobooks", "Our intellectuals who donated valuable collections from their personal library to the national library", "Open Library", "Music Library", "Virtual exhibition", "Let's go to Karabakh with a book!" and completed other projects.

"Let's go to Karabakh with a book!" The project was held on January 15 last year at the National Library in connection with the restoration of the book collections of libraries that operated until the beginning of the 90s in our territories liberated from the Armenian occupation by the victorious Azerbaijani army under the leadership of the President of the Republic of Azerbaijan, Commander-in-Chief Mr. Ilham Aliyev. A presentation was held book collection campaign organized jointly by the Ministry of Culture of the Republic of Azerbaijan and the National Library. Today, design and modernization work continues successfully in the area of attention and care for libraries that have become active participants in this mission, the protection and promotion of our national and spiritual wealth, and the President of Azerbaijan, Mr. Ilham Aliyev.

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