LIBRARIES IN HIGHER MILITARY EDUCATIONAL INSTITUTIONS DATA PROCESSING BASED ON DIGITALIZATION

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Annotation: *In this article, a number of hypotheses on information search and processing based on digitization of libraries in higher military educational institutions are put forward. Comprehensive information retrieval systems and technologies in library systems are covered in detail.*

Key words: *information-library system, intellectual search, information search and processing*

In our country, large-scale work is being carried out to create a higher military education system that meets the priority directions of socio-economic development and the requirements of international standards. In recent years, special attention has been paid to the application of new technologies for the digitization of all sectors in our country. This makes it possible to improve the quality of service, save users' time and money.

Today, the need for digital information is increasing day by day, leading to an increase in the volume of information. This raises issues of improving large-scale digital information systems and technologies in information-library systems in higher military educational institutions. Also, the issue of searching and processing information in information-library systems is also relevant.
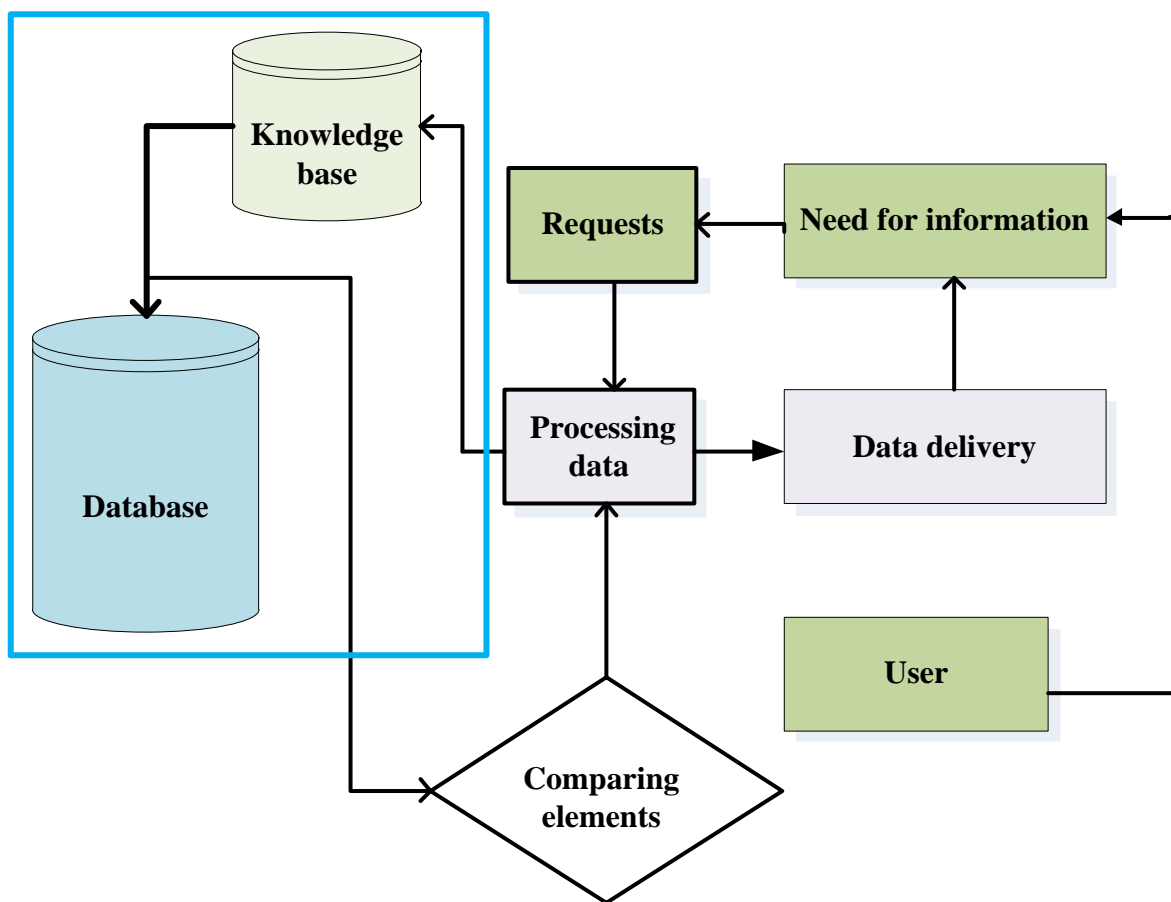
President of the Republic of Uzbekistan Sh. Mirziyoyev's 2020 In order to ensure the implementation of the Decree No. PF-6079 dated October 5 "On the approval of the strategy of Digital Uzbekistan - 2030 and measures for its effective implementation", the development of digital activities in our country, in all sectors and fields, the most first of all, comprehensive measures are being implemented for the wide introduction of modern information and communication technologies in education. In particular, the implementation of more than 220 priority projects aimed at improving the electronic government system, further developing the local market of software products and information technologies, establishing IT parks in all regions of the republic, as well as providing the sector with qualified personnel has begun.

The process of searching and processing information is associated with the emergence of the global computer network Internet system in the 50s and 60s of the 20th

century. In higher military educational institutions, requests made in order to satisfy the needs of users for information in information-library systems, such as selecting, processing and presenting information suitable for the request from the database, are carried out with the help of information search and processing [1] .

Information search and processing is one of the main modules in the information-library systems of higher military educational institutions based on intelligence. Because in intelligent search systems, in order to satisfy users' need for information, they first search for electronic resources and then provide them [2, 3]. In modern information-library systems, there are many automated processes as well as manual processes. Therefore, in the design and creation of automated information systems and automated library systems, great attention is paid to the issue of reducing human intervention in information processing at various stages of system operation [2]. This, in turn, increases the quality and speed of service of the information-library system of higher military educational institutions. Among the processes performed by people, first of all, the process of analytical-synthetic processing of documents and queries entered into automated information systems and automated search systems can be mentioned. In the analytical-synthetic processing, the text contained in the document and in the information request is created. In the information-library systems of higher military educational institutions, the search for information is carried out according to the formal image of the document. This formal representation is based on a full review of the full text of the document, abstract texts, or their topics. Formalization of the information-library system of higher military educational institutions, information search and processing, the content structure of the document is translated into the accepted language. This conversion process is directly related to indexing and consists of two main steps. First, to determine the subject or main topic of the document, and secondly, to express this subject or main topic in the information search language of the system, that is, to form the search image of the document [4].

In general, the general structure of data search and processing can be described as follows (Figure 1):

1-picture. Higher military education muasasalar library and information search and processing data in the system.

Information search and processing in information-library systems of higher military educational institutions.

The process of searching and processing information in information-library systems performs the following tasks [4]:

- existence of a need for information and forming a request based on this;

- request processing and selection from the database based on the knowledge base;

- comparison of selected data in relation to the request;

- processing and presentation of selected data.

Library systems such as Whichbook, Elar, Magiquiz, Bookriot, Quora, Ellegirl, Bombora, which are considered as intelligent information-library systems, are based on the technology of hyperlinked texts based on the DOM (Document Object Model) technology. This requires constant improvement and development of data search and processing models, methods and software modules in data search systems. In the information-library systems of higher military educational institutions, it is an important process to adapt natural language text to the base of the information environment by dividing it into information types based on certain software rules. Adaptation of texts is a complex process, in which experts and issues of intellectual systems, including knowledge base, linguistic, semantic, mathematical support and complex of technologies should be carried out together.

As a result of optimization research, many algorithms and software based on them have been developed. The results are relative to the given text language, and are all based on a keyword database and knowledge base. Higher military educational institutions are recommended to use an automated library-information system as a means of creating an electronic library. The electronic library includes an electronic catalog, documents in electronic form, databases of library users. The electronic information library created on the basis of digitization of libraries in higher military educational institutions performs the following tasks:

- Providing comprehensive access to valuable educational and reference-informational resources presented in various forms in the form of text, video, multiplication, multimedia, simulation modeling systems;

- Quickly search for the necessary information using the electronic catalog.

Search speed is several hundred times faster than traditional directory search;

- Formation and maintenance of a large-scale scientific, educational, encyclopedic and data base suitable for the needs of the information library and its users. The electronic catalog of the electronic library of higher military educational institutions is its most complex and labor-intensive part.

The full-text database in the electronic library is formed as follows:

- Higher military educational institutions create electronic librarians on their own by scanning printed or handwritten documents (photographs, keyboards) and enter them into the system through the electronic catalog;

- Obtaining electronic resources by agreement from other persons or organizations.

In conclusion, it can be said that the automation of library work and the organization of electronic libraries based on the digitalization of libraries in higher military educational institutions is a modern and rational way to effectively organize information services for readers and users through electronic resources.

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