

DESIGN OF CAMPUS ARCHIVES MANAGEMENT SYSTEM

Liu Ya, master's degree student, Dunina E., PhD in Physics and Mathematics, associate professor, Sokalava H., senior lecturer

*Vitebsk State Technological University,
Vitebsk, Republic of Belarus*

With the rapid development of information technology, the traditional archives management method has gradually been unable to meet the needs of modern colleges and universities for fast, accurate and efficient management of archives information. Therefore, building a university archives management system based on modern information technology is of great significance for improving the efficiency of archives management, optimizing service processes and promoting information sharing.

The system is mainly designed and implemented using Spring Boot [1], Thymeleaf [2], Layui [3], Apache Shiro, Redis and Mybatis Plus technologies. Spring Boot as the primary development framework; Thymeleaf as a Java development template engine; Layui as a front-end UI framework; Apache Shiro, as a Java security framework, can effectively protect the security of file information.

The main functional modules of the project include: authority management, document management, file management.

Authority management module includes: system administrator, staff, users (teachers and students).

The document management module mainly aims at the documents issued by the university administration department and the materials of teachers.

The file management module mainly aims at the management of graduate files.

References

1. Spring Boot [Electronic resource]. – Access mode: <https://spring.io/projects/spring-boot>. – Access date: 15.04.2024.
2. Thymeleaf [Electronic resource]. – Access mode: <https://www.thymeleaf.org/>. – Access date: 15.04.2024.
3. Layui [Electronic resource]. – Access mode: <https://layui.dev>. – Access date: 15.04.2024.

DEVELOPMENT OF THE UNIVERSITY LABORATORY MANAGEMENT SYSTEM

Li Yankun, master's degree student, Dunina E., PhD in Physics and Mathematics, associate professor, Derkachenko P., senior lecturer

*Vitebsk State Technological University,
Vitebsk, Republic of Belarus*

With the development of college education, laboratory management efficiency needs to be improved urgently. In view of the limitations of traditional management methods, we urgently need to develop an efficient and intelligent laboratory management system that integrates advanced technology and databases and integrates information management, security management, equipment management, experimental teaching management, scientific research project management and user rights management. , comprehensively monitor laboratory work and improve operational efficiency to support the improvement of teaching and research quality.

1. Technology selection This system uses Node.js back-end framework and React front-end framework, combined with Git version control, and uses Vite.js to improve development efficiency. React-router-cache-route is introduced to implement route caching, Redux manages application status, and axios handles data interaction. At the same time, Ant Design is used as the UI component library to build a high-quality, high-performance user interface. The overall design is