

DEVELOPMENT OF THE PROJECT MANAGEMENT PLATFORM

Wang Zihu, master's degree student, Zhyzneuski V., PhD in Physics and Mathematics, associate professor, Derkachenko P., senior lecturer

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

In modern enterprise management, the construction of a digital project management platform is not only a technical implementation challenge, but also an innovation in the enterprise's operating model and management philosophy. Enterprise project management platforms have become a key tool for organizing efficient collaboration and improving management efficiency. By building an integrated and intelligent project management platform, enterprises can manage the entire project life cycle.

This project uses popular technologies such as Spring Boot, Vue, Mybatis-Plus, Flowable, and Sa-Token to jointly build a powerful and complete system. Flowable is a powerful workflow engine for defining, executing and managing business processes. Integrated Redis provides high-performance caching solutions and optimizes system performance. OSS (Object Storage Service) is used to store files and documents.

The main functional modules include user management, authority management, process design, process deployment, process execution, process monitoring, reporting and analysis, etc. The functional modules of the workflow management platform are designed to simplify the enterprise's business processes by providing an integrated solution. Improve overall operational efficiency and management level.

References

1. Spring Boot [Electronic resource]. – Access mode: <https://spring.io/projects/spring-boot>. – Access date: 08.05.2024
2. Vue.js - The Progressive JavaScript Framework [Electronic resource]. – Access mode: <https://vuejs.org/>. – Access date: 08.05.2024.
3. Flowable: Business Process Automation | Low-code | Workflow Automation [Electronic Resources]. – Access mode: <https://www.flowable.com>. – Access date: 08.05.2024.

DEVELOPMENT OF THE GERIATRIC CARE MANAGEMENT SYSTEM

Xiong Shuqiu, master's degree student, Kazakou V., PhD in Engineering, associate professor, Sokalava H., senior lecturer

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

The purpose of this project is to establish an information system for nursing home management. In order to achieve these goals, this project chose Nodejs [1] and Express frameworks to build an information system that conforms to the RESTFUL interface, used JWT (JSON Web Token) for user authentication and authorization, and used MongoDB [2] as the database to store data in the nursing home management system. MongoDB is a non-relational database is suitable for storing large amounts of unstructured data.

This system can play an important role in helping nursing homes improve management efficiency, provide personalized services, ensure the health and safety of the elderly, enhance family participation and security, and establish an effectiveness evaluation system.

The main functional modules include user management, elderly management, employee management, service management and other functional modules. Each module is responsible for processing corresponding business logic, such as user login, elderly information query, employee information modification, etc. These functional modules together form the core of the nursing home

management system to ensure that the daily operations and management of the nursing home are efficient and orderly.

References

1. Node.js – Run JavaScript Everywhere [Electronic resource]. – Access mode: <https://nodejs.org/en>. – Access date: 15.04.2024.
2. MongoDB: The Developer Data Platform [Electronic resource]. – Access mode: <https://www.mongodb.com>. – Access date: 15.04.2024.

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DEVELOPMENT OF THE CULTURAL TOURISM MANAGEMENT SYSTEM

Guo Yuanfeng, master's degree student, Zhyzneuski V., PhD in Physics and Mathematics, Biziuk A., senior lecturer

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

This project is the development and optimization of a tourism management system. Based on Java programming language, Spring Boot [1] framework, MySQL [2] database and Vue.js [3] front-end framework, a tourist attraction management system is designed and implemented. The system aims to provide an efficient and convenient management platform to help scenic area managers better organize and manage scenic area resources and improve service quality and tourist experience.

In terms of system design, we use Spring Boot as the back-end development framework and Vue.js as the front-end framework to achieve a front-end and back-end separation architecture. The backend adopts the IoC and AOP features of the Spring framework, provides a RESTful API interface, and implements core functions such as user management, attraction management, and reservation management. The front-end uses the Vue.js framework to build a user-friendly interface and implement functional modules such as data display and interactive operations. During the system implementation process, we made full use of the rapid development features of Spring Boot and the flexibility of Vue.js, and improved the maintainability and scalability of the system by separating the front and back ends.

The system has good user interface design and user experience, which can effectively improve the efficiency of scenic spot management, optimize service processes, and improve tourist satisfaction. Through research and practice, we want to verify the feasibility and effectiveness of the tourist attraction management system developed based on Spring Boot and Vue.js, provide a new idea and solution for the information construction in the field of scenic spot management, and promote scenic spots The improvement of management level and the process of modernization.

References

1. Spring Boot [Electronic resource]. – Access mode: <https://spring.io/projects/spring-boot>. – Access date: 15.04.2024
2. MySQL Documentation [Electronic resource]. – Access mode: <https://dev.mysql.com/doc>. – Access date: 15.04.2024.
3. Vue.js – The Progressive JavaScript Framework [Electronic resource]. – Access mode: <https://vuejs.org/>. – Access date: 13.04.2024.