

The study was carried out in several stages: an analysis of the subject area was carried out; analysis of functional and non-functional requirements has been carried out; the data model, project architecture and database structure were built; the main modules of the web application, which are characterized by a user-friendly interface, have been implemented; testing was carried out, which confirmed the operability and readiness of the system for implementation.

Main business advantages: relevance; business value; automation of routine processes; transparency of management; scalability and adaptability; formation of an analytical resource.

As a result of the implementation of the web application, the company receives not just a tool for storing requests, but a full-fledged element of the business infrastructure that facilitates decision-making based on objective, structured data.

Conclusions and prospects

As a result of the research, a web application was developed and implemented to account for the demand for tourist services. The system is designed to automate the processes of fixing, analyzing and classifying requests from clients of travel agencies, which allows you to significantly reduce the workload on personnel, increase the efficiency of managerial decision-making and promptly generate reports on the current state of demand. Thus, the results of the study have both theoretical and practical significance for further use in the field of automation of tourist services.

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TASK AND PROJECT MANAGEMENT IN ORDER TO OPTIMIZE PROJECT MANAGEMENT PROCESSES

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In today's world, project management is a key aspect of the successful operation of organizations. Optimization of project management processes with the help of modern technologies allows you to increase the efficiency of teamwork, ensure transparency of tasks and achieve goals within the established deadlines. The development of web applications for project management is becoming more and more

relevant, as such tools help teams plan, track, and coordinate their activities in real time.

Problem statement

To implement this project, a modern technology stack was used: Typescript, front-end Next.js, Supabase as a backend platform. The work includes analyzing existing solutions in the project management market to determine their advantages and disadvantages, as well as developing and implementing new features that will improve user experience and system efficiency.

The main functionality of the web application includes:

1. Registration and authentication: Users can create accounts via email or social media, log in, and connect multi-factor authentication to enhance security;
2. Profile management: the ability to edit personal data and avatar;
3. Creating and configuring projects: users can create projects, add logos, choose the type of project, and change parameters;
4. Managing participants: the project owner can invite new participants by email and delete existing ones.
5. Sprint planning: creating sprints indicating the goal, description, start and end dates;
6. Task management: creating, editing, generating a task description using a language model, filtering and assigning tasks within sprints with parameters: name, description, type, status, performer, time estimate.

Purpose of the study

The purpose of the study is to develop a system of automated analysis of user feedback based on natural language processing methods to identify sentiment, key aspects and topics.

Research results

The process of developing a web application for project management in order to optimize project management processes involves the creation of a comprehensive solution. The main aspects of the task include developing functionality for organizing teamwork, planning sprints, managing tasks and project participants, and providing a user-friendly and intuitive interface. Thus, the goal of the web application is to provide teams with a simple and effective tool for project management, which will contribute to increased productivity, transparency of task execution, and optimization of workflows.

Conclusions and prospects

As part of the study, a modern web application Sprintly for project management was developed, aimed at optimizing project management processes. The relevance of the work is due to the growing need for effective tools for organizing teamwork, planning sprints and managing tasks in the context of the dynamic development of information technology and the IT industry. The developed application meets modern requirements for computer information systems, providing flexibility, transparency and automation of routine processes.

Further research plans to expand the functionality of the application, including the addition of analytical reports, integration with artificial intelligence tools to predict task deadlines, and support for a multilingual interface.

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EXPLORING HYBRID ENCRYPTION METHODS IN BLOCKCHAIN NETWORKS

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In modern information systems, issues related to cybersecurity are of key importance. With the growth of digital transactions, the popularity of decentralized applications, and the use of blockchain technologies in various fields (logistics, finance, healthcare, identification, etc.), the need for reliable methods of protecting transmitted information is also growing.

Problem statement

While the blockchain itself ensures the integrity and immutability of records in the distributed ledger, it does not guarantee the complete confidentiality and authenticity of the transmitted data, especially in the channels of interaction between users or network nodes. The transmission of information in blockchain environments often takes place without additional layers of encryption or using outdated algorithms. This poses a threat of interception, unauthorized access, or even modification of critical information. Using only symmetric or only asymmetric algorithms is not always effective due to the trade-off between performance and security.

Purpose of the study

The purpose of the study is to implement hybrid encryption methods to ensure the confidentiality, integrity, and authenticity of transmitted data in blockchain networks.

Research results

One of the promising areas for solving these problems is the introduction of hybrid encryption methods that combine the advantages of symmetric (high performance) and asymmetric (secure key exchange) cryptographic systems. This approach allows for both fast encoding of information and secure exchange of key