

quantity of products in stock, information on price boundaries for a particular type of position. Presented sites of competitors do not have so much useful information. Also, the web application has a pretty interesting interface, repeatedly tested and approved by a team of QA-engineers, which direct competitors cannot boast of.

Considering the fact that most users use a mobile device to access the network, the interface has been adapted for most popular mobile devices. The project has several databases - to store personal information of users, information about the state of the warehouse for each position.

As a tool for the implementation of the project, the choice fell on the front-end framework Vue, which is rapidly gaining popularity at the moment, as well as differing from its competitors - Angular and React, by its simplicity and speed. In addition to this framework, plugins such as Vuex and Vue Router were used, which allowed to implement a full-fledged Single Page Application. For writing the back-end part Node JS was used. As a result of the study, such advantages as economical use of server resources (in comparison with Java), as well as high performance were identified. For styling – Bootstrap version 4.

Literature

1. The Progressive JavaScript Framework [Electronic resource] / Vue.js. – 2019. – Mode of access: <https://vuejs.org/>. – Date of access: 05.03.2019.

2. Bootstrap 4 [Electronic resource] – 2019. – Mode of access: <https://getbootstrap.com/>. – Date of access : 05.03.2019.

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SPA WEBSITE FOR A RETAIL STORE

The application is a Single Page Application, that is, the project has a single html document that wraps all web pages and organizes user interaction through dynamically loaded HTML, CSS, JavaScript.

To implement such an application, the Vuex library was used, which is also a state management pattern. Vuex serves as a centralized data repository for all components of an application, with rules ensuring that the state can only be changed in a predictable way.

In fact, Vuex does not impose any significant restrictions on the code structure used. However, it requires adherence to several high-level principles. First of all, the global state of the application must be contained in the global repository. Secondly, the only mechanism for changing this state are mutations, which are synchronous transactions. Asynchronous operations are encapsulated in actions or their combinations.

The project was implemented in accordance with all the requirements of all the listed principles.

The project was tested using an out-of-box framework such as Jest, since the Vue CLI provides options for unit testing applications. In the process of testing, some shortcomings in the work of the application were revealed, which were eliminated immediately.

Also, the application interface has been thoroughly tested. As a result of testing, some shortcomings were also found that needed to be corrected. As a result of the testing conducted, it was a functional application surpasses its competitors in a large number of parameters.

Literature

1. The Progressive JavaScript Framework [Electronic resource] / Vue.js. – 2019. – Mode of access: <https://vuejs.org/>. – Date of access: 05.03.2019.

2. Bootstrap 4 [Electronic resource] – 2019. – Mode of access: <https://getbootstrap.com/>. – Date of access : 05.03.2019.

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IMPLEMENTATION OF WORK PLANNING SUBSYSTEM IN THE ONLINE BOOKMAKER PLATFORM

The implementation of the work planning subsystem was started with the functionality of registering new users. The main features of which are the activation of the user in the system by changing his status upon confirmation of registration in the letter. The remaining precedents, namely the collection and cleaning of statistics, the loading of user preferences and the news notification system are also focused on a specific user. All of the above functionality was implemented primarily using the Interceptors architecture, as well as CronJobs and Workflows.