

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.

Some information about interceptors: they check whether constraints set for the behaviour of life cycles of models are fulfilled. To intercept the behaviour of life cycles of Models, various types of interceptors have been developed. Each such interceptor addresses a particular step of the life cycle. When the life cycle of a model reaches a certain step, a corresponding interceptor is activated. During the interception, it is possible to modify the model or raise an exception to interrupt the step. For example, as was made in the subsystem, special interceptor checks whether specific user registration is confirmed or not.

A workflow consists of steps called workflow actions. A workflow template defines the sequence of workflow actions in the form of workflow action templates. The link between workflow action templates defines the basic sequence of the workflow. Just as you create workflows from workflow templates, you create workflow actions from workflow action templates which are defined on the workflow template. Workflow action templates are connected by options. An option defines that a workflow action template can be followed by another workflow action template. On a workflow, the selected results of workflow actions are saved in the form of decisions. Decisions are working copies of options.

When a decision has been selected for a certain action, the status of that action is set to completed. If the decision leads to any subsequent actions, those actions are activated and set to in progress. Only those actions specified by the decision are activated. If an action has different potential subsequent actions, the selected decision determines which of the potential actions is activated.

A workflow action template can also be set to send an email notification as used in the work planning subsystem for news notification: if the action, which is copied from the workflow action template, is activated (that is, the action's preceding actions are completed), then an email is sent to the assignee (using the SAP Commerce email settings). Whether or not an email is sent can be set for the action at any time.

SAP Commerce provides a means to set up regular tasks. With these tasks, or cron jobs, you can repeatedly perform complex business logic at particular times and intervals. You may want to perform an inventory every Sunday at midnight, for example, or collect and clean statistics as had been made in the bookmaking subsystem. You can achieve this through a combination of dedicated classes for the business logic, and the embedded cron job management functionality of SAP Commerce.

Testing of the subsystem included, first of all, not only the writing of integration tests, but also real-time user testing. The testing performed co-

vers all the above functionality of the work planning subsystem, from news notification to user registration.

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DEVELOPMENT OF WORK PLANNING SUBSYSTEM IN THE ONLINE BOOKMAKER PLATFORM

Online bookmakers are representations of real bookmakers on the Internet. Such organizations are engaged in financial activities, namely, they accept cash bets and pay winnings for various sporting events, as well as bets on television, political, and cultural events. Sports betting has very deep roots, however, with the widespread adoption of the Internet, bookmakers began to move there. The Internet makes it easy to make predictions and simplifies betting.

One of the most important part in creating online bookmaking system is to choose correct e-commerce platform. There are lots of such platforms as for example Magento or OpenCart, but one of the is SAP Hybris. It has special features which make this platform better than other ones, especially such feature as extensibility. You can build as much modules over your system based on this platform as you want. SAP Hybris provides solutions that help any organization to cut cost, save time, reduce complexity and require lesser focus to achieve excellent customer experience. Their solutions help companies drive relevant, contextual experiences across all customer touchpoints and channels – in real-time. This means you can use customer context to personalize each interaction and deliver consistent, great experiences.

Key features to implement during developing of work planning subsystem in the online bookmaker platform are: registration notification system; news notification system; loading personal user settings; notification system for coming events; statistics gathering and cleaning; notification system for competition updating; workflow implementation for newest users registration; workflow implementation for newest users registration refusing.

All these features include next use cases: newest users registration; statistics gathering; statistics cleaning; competitions update; coming events notification; personal settings loading; news notification.