layers was covered by tests. For this purpose was used unit and integration tests.

I.V. Sparnou (Francisk Skorina Gomel State University, Gomel),
Scientific adviser **V.D. Liauchuk**, Ph.D. in technics, associate professor

USE CASES OF THE REPRESENTATIVE SITE
FOR SHOP EQUIPMENT

The objective of the project is to develop a website for the store selling Apple equipment. The creation of the site was caused by the need to provide an automated process for the sale of products.

The online store largely wins before the real store. The number of staff is reduced by reducing the amount of interaction with customers, renting disk space and placing a storefront is cheaper and easier than renting retail space and placing goods on the shelves, there is no need for cash services. You can also use a virtual store as an effective method of marketing research. Any user of the Internet can quickly fill out a questionnaire offered to him by the store through a computer. This allows you to study the needs and tastes of potential buyers without much expense and take the results of a marketing survey into account in your work. Unlike a regular store, an online store can serve several hundred customers at the same time. In addition, if the buyer lives in another city, he gets the opportunity not to spend money on long-distance telephone consultations. All the information he can find on the pages of the online store. The range of the online store is not limited by anything (as, for example, the range of a regular store is limited by the area of the shopping pavilion).

According to the conditions of the customer, the product being developed must meet the following criteria: intuitive user interface; ease of support; minimal development time; good scalability; the possibility of placing orders through the site.

Initially, the option of creating a full-fledged online store was considered. The development of a full-fledged online store entails more complex application architecture with the need to implement a security system, which ultimately could result in an increase in the time and cost of the project. Therefore, taking into account the above criteria, a decision was made in favor of the online storefront.

The process of sale when using the online storefront is carried out in several stages. First, the seller collects orders, then ascertains the supplier's

terms and conditions for the execution of the order, after which he informs potential customers and, finally, if they agree, he ensures the delivery of the goods.

I.V. Sparnou (Francisk Skorina Gomel State University, Gomel),
Scientific adviser **V.D. Liauchuk**, Ph.D. in technics, associate professor

DEVELOPMENT OF THE REPRESENTATIVE SITE
FOR SHOP EQUIPMENT

For the development of the client part of the application, the React library was used. This library was chosen due to its high speed, simplicity and scalability in the development of user interfaces. The development of the server side of the application was carried out using the Node.js software platform, which is perfect for small web applications, such as online storefronts or online stores.

MongoDB was used as a DBMS. This system copes with scalability problems that arise when using SQL DBMS, and also has good integration with the Node.js software platform.

The final product has the following structure: main page; products page of a certain category; product page; store information page.

The main page performs the presentation function. It presents a catalog of goods and a brief description of the features of the store. At the top of the main page is a slider, which displays information about the latest arrivals in the store and other advertising information. Below is the navigation menu in the form of a grid with images of the goods. Next is information about the store.

Products page of a certain category contains a list of products according to the user's choice. Each product displayed in this section is a card with a brief information about the product.

After click on the «Buy» button, the user is prompted to enter their contact information for placing an order in a special pop-up window.

To complete the process of placing an order, you must click on the "Checkout" button. To close the menu, click on the corresponding icon.

To go to the detailed description of the product, you must click on his card. When performing this action, the user will be redirected to the page of the selected product, containing photos of the product, detailed specifications and a video with an overview.