

The application was developed in Java programming language with the help of Spring Framework. Hibernate was used to interact with database. Apache Maven was used to build the project.

The architecture of the application is presented in figure 1. The engine runs in the browser as Java code. The UI logic of the application works with Spring MVC.

Throughout the project development automatic and functional testing was used. Automatic testing is represented by jUnit and mockMvc tests.

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AUTOMATION OF PRODUCT SALES ACCOUNTING FOR IE BOGDANOVICH

To automate the enterprise system, a catalog site was developed. It's a web resource that contains a list of goods with detailed descriptions of various characteristics, photographs, articles and reviews. The site consists of a large number of pages, which provide the necessary information that may interest a potential buyer.

The target audience of the confectionery site for sole proprietors is quite wide. It's convenient for customers who want to place an order, view possible products, read reviews and get any possible contact information about the seller. Approximately the main target audience includes women aged 25 to 47 years.

The purpose of the research was to create an easy and accessible website for the user-a catalog for IE Bogdanovich with a full description of manufactured products, prices, reviews, and contacts for communication.

So, for developing project features like search bar on the main page, feedback form, individual order acceptance form, comment/view form, current product availability, product distribution by category, zoom in on photos, shopping cart and map with location was implemented.

As part of the project, it was necessary to define all the usage scenarios and its descriptions. Define functionality of the application with different diagrams, features, that must be implemented and define main roles. Also, to provide all project's information and logical structure. Select main tools, technologies that'll help to develop the project and define project's architecture. And the last was to implement defined requirements.

The main function of the application was to deliver all the information about selling products to end-user. Besides this web-site gives users an opportunity for ordering requests, write a feedback form and browse through lots of categories of products and read other users feedbacks.

In developing projects, the main tools and technologies are Python and its framework Flask. For database creation will be used MySQL.

The main architecture concept of the project was MVC. Model-view-controller is a software design pattern commonly used for developing User interface that divides the related program logic into three interconnected elements. This is done to separate internal representations of information from the ways information is presented to and accepted from the user.

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USING THE MVC ARCHITECTURE FOR SALES AUTOMATION

The main architecture concept of the project was MVC.

Model-view-controller is a software design pattern commonly used for developing User interface that divides the related program logic into three interconnected elements. The MVC design pattern also defines interactions between components, as it's shown in the diagram on figure 1.

The model stores data that is retrieved according to commands from the controller. The model gives the controller a view of the data that the user has requested. The data model is the regardless of how the data presented to the user. The application was tested successfully, no errors and bugs were found.

The controller acts on both model and view; it sends commands to the model to update its state and to the view to change information presented to users.

The controller implements the strategy pattern. The controller connects to the view to control its actions. The code for the controller is split into three sections: initialization, routing, and execution.

The view generates output for the user based on changes in the model. A view is a combination of graphical components and implements the compositor pattern.

As the view is the user interface (UI) of web application which renders data from the model as defined by our template.