Doing like this it is possible to cover the whole project with automated tests. A developer can see total results in friendly form (figure 3).
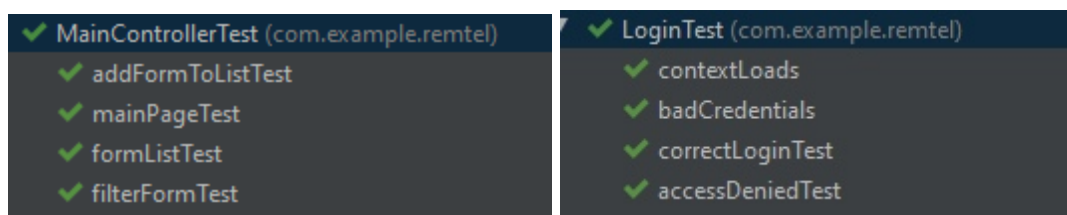

Figure 3 – Test results for interacting with the database

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AUTOMATION OF ORDERS ACCOUNTING FOR A WORKSHOP

At the moment most of the technical maintenance workshops have their own web services to automate customer interactions. Some of them are discussed in the presentation.

The reason for creating a web service is that this workshop does not have a website as such. Its purpose is to allow dividing and automating the work of the workshop.

There are two roles in the developed application: user and administrator. Each actor has a specific list of available use cases.

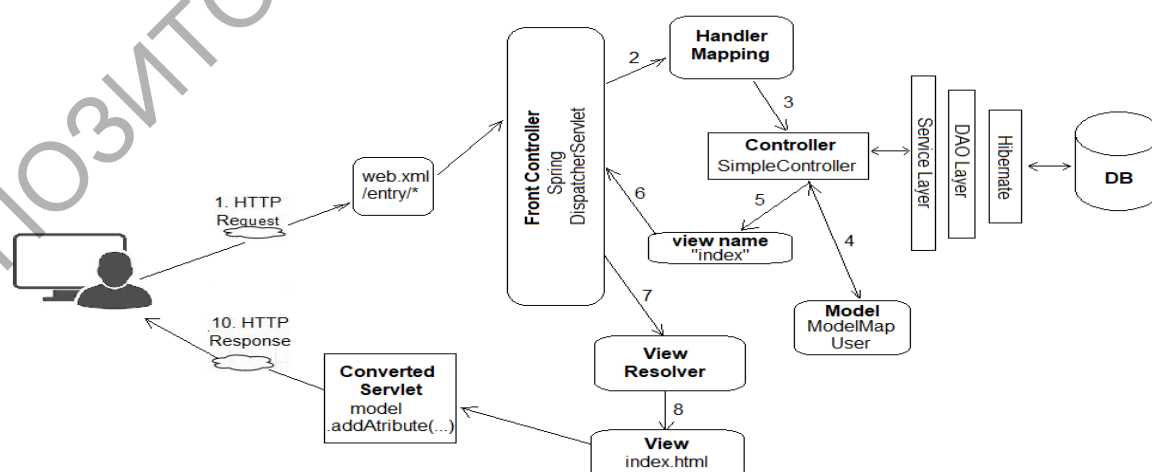Relational database consists of about 4 tables. MySQL is used for storing information.

Figure 1 – Spring MVC architectural pattern

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.