Aliaksei Kafanau
(Fr. Skorina GSU, Gomel)
Scientific adviser **Viktar Liauchuk,** Ph.D. in technics, associate professor

DEVELOPMENT OF THE PROJECT FOR TASKS MANAGEMENT FOR A FAMILY ENTERPRISE

At the moment, there is a plenty of web services for project management. The reason for creating another web service is that in many web services there is no complete free use of the interface.

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

Relational database consisting of 4 tables is created. MySQL is used for storing information.

The application is developed with Java programming language and Spring Framework. Hibernate is used to interact with database. Apache Maven is used to build the project.

The architecture of the application is presented in this slide. The front-end is implemented with the Angular framework.

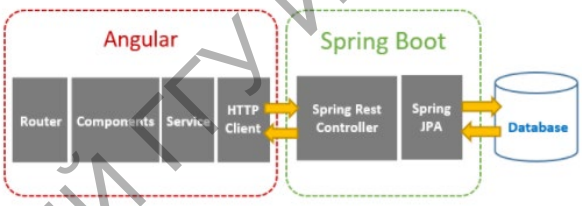

Figure 1 – Spring Boot and Angular interaction

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

Valery Kavenkin
(Fr. Skorina GSU, Gomel)
Scientific adviser **Pavel Bychkou**, Ph.D. in Physics and Mathematics

PROJECT DEVELOPMENT FOR TRACKING THE ACCOUNTING PROFITS OF THE ENTERPRISE

The decision to develop a web application arose out of a desire to simplify the profit tracking process. Tracking profit is of great importance, since

on the basis of the information received, most of the problems associated with the organization of labor and the possibility of correcting business errors are solved.

During the implementation of the project, the following aspects were considered: using the API to obtain data using RestTemplate, creating a microservice to connect it to the entire system, distributing roles, etc. Among the distinctive features of the application: the developer has the ability to view the profit by date, there is also a large number of filters, the ability to download an excel report with graphs and charts according to the filters he needs.

As input documents in the application are: data from the daily profit, as well as expenses. As output: summary table with aggregated data. When developing the application, the following technologies were used: Spring Boot, ReactJs, Postgresql. The architecture of the application is shown in Figure 1.

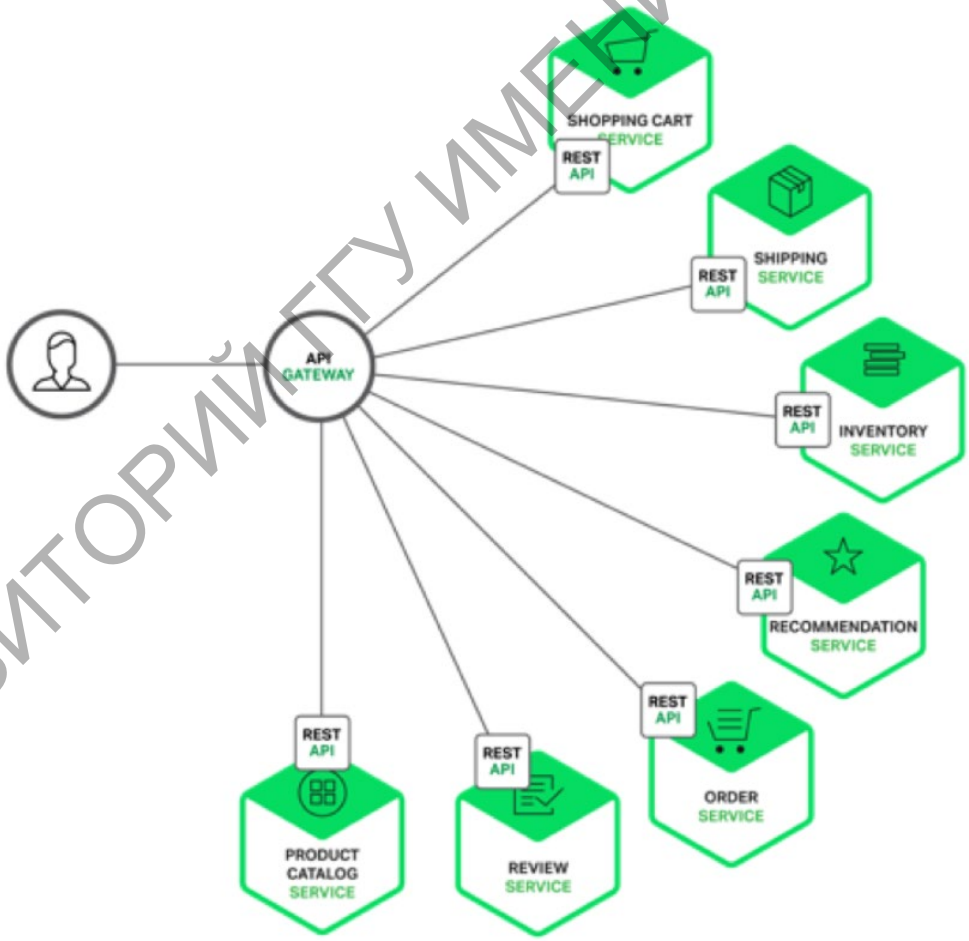

Figure 1 – Architecture pattern