

0.1 the Object of the Project

0.1.1 Several Basic Functions

Through this lab, we finish the several required basic functions of an on-line coffee sale system.

0.1.2 the Process of Software Development

Through this lab, we also have the chance to experience the real process of software development, and understand the importance of coding quality and software design.

0.1.3 Teamwork Based on Git and DevCloud

We also learn to develop as a team.

0.2 the main functions of the Project

The main functions are as follows:

0.2.1 Login and Signup

Before entering the coffee system, the user should signup/login first. This part is finished by Jiani Huang.

0.2.2 Check Status of Login and Price

The system should always record the status of user and the order. This part is finished by Chen Wang.

0.2.3 Calculate the Coffee Price

The system will calculate the total order price according to the standard input made by the user. This part is finished by Jiaxing Liu.

0.2.4 Code Checking

Finally, to ensure the correctness and quality of the whole system, we will perform several code checks on the DecCloud platform. This part is finished by Xinyue Tang.

0.3 Frame:Spring Boot

0.3.1 The feature of Spring Boot in comparison to other Java EE frameworks

Spring Boot makes it easy to create stand-alone, production-grade Spring based Applications that we can “just run”.

The designers of Spring Boot take an opinionated view of the Spring platform and third-party libraries so we can get started with minimum fuss. Most Spring Boot applications need very little Spring configuration.

Specifically, Spring Boot has the following features:

1. Create stand-alone Spring applications;
2. Embed Tomcat, Jetty or Undertow directly (no need to deploy WAR files);
3. Provide opinionated “starter” dependencies to simplify your build configuration;
4. Automatically configure Spring and 3rd party libraries whenever possible;
5. Provide production-ready features such as metrics, health checks and externalized configuration;
6. Absolutely no code generation and no requirement for XML configuration.