

# Design and Implementation of Home Service Mini Program

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[Abstract]The goal of this graduation project is to design and implement a mini program about household service and life reservation, replacing offline transactions with online transactions, reducing user costs and improving transaction efficiency.

After searching for relevant information, it was found that there were several shortcomings in the previous mini program design, including the following:

- (1) There is no advertisement carousel design on the homepage of the mini program.
- (2) There are no rules set for accounts and passwords, which reduces security.
- (3) When registering users, they were not given a default profile picture.

In this graduation project, optimization has been made for the above points:

(1) Add an advertising table to the database, then rotate the display of images on the index. vue page and implement a logic: when clicking on the image, a businessID will be transmitted to the merchant page, and finally to the merchant table in the database for precise matching to display the corresponding merchant information.

(2) For account and password settings, if the verification rules are met, the registration is successful. Otherwise, a prompt message will be displayed.

(3) In the add method in the user business layer, set a default avatar path and then assign values to the avatar attributes in the user entity class.

This graduation project uses front-end and back-end separation technology. The backend uses the Spring Boot framework, the front-end uses the Vue framework, and the mini program uses the uni app component. The database uses MySQL. By designing each module, the basic functions have been implemented, and users can choose the household service orders they need on the mini program end. However, there are still shortcomings in terms of details, such as insufficient detailed display of service orders, At the same time, there are shortcomings in personalized design, which will be the next direction of work.

[Keywords] Home service; WeChat Mini Program; Spring Boot; MySQL