

In our project, the model view control design pattern is implemented. Users can view and send requests from the browser to the controllers. Then the controller will manipulate the model including components, entity classes, as well as use cases like services and repositories. Additionally, the database will interact with the repositories, and all model returns will display in the browser.

Considering what is included in the entity classes, ingredients, dishes, users are getters and setters. All data will be stored into the sql database, respectively.

#### Scenario Walkthrough:

Users can register and log in into their accounts which will be saved into the user database. After successfully log in into the website, our main page will be displayed. On the main page, users can choose to add a new dish or search for dishes. While adding a new dish, the name of the dish, ingredients and corresponding calories are required. Finally, the weight of each ingredient for cooking that dish is required. Considering searching for dishes, the exact name of the dish is required to be entered. Then our system will search of all dishes with the dish name input, and the be shown in the browser. Users can click into the dish and see what is included in that dish page like instructions.