Use Case: Adding New Ingredient to Pantry

In this scenario, the user interacts with the system to either create a new account or log into an existing one. This interaction is between the user and the AccountCreation class. If the user is creating a new account, they provide their details, and the system creates the account. If the user is logging in, the system verifies them against the database and logs them in.

After the authentication process, the user proceeds to the Ingredient screen. Here, They click the button to add a new ingredient to their pantry through the application's Ingredient screen. They input new information of the ingredient (name, quantity, calories, and expiration date). Upon submission, the Ingredient class validates the entered data. If valid, the ingredient is added to the user's pantry database. If the ingredient is invalid (non-positive argument or duplicate ingredient), the new ingredient is rejected (rejected with an error message for non-positive parameter). Finally, a confirmation message is displayed to the user indicating the successful addition of the ingredient and displays a scrollable list of the user’s available ingredients retrieved from the Pantry database.