

SMD Mini Project & Assignment 6

Online Grocery Shopping

Batch - E4

Group -

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Software Requirement Specifications

- Purpose
 - The project aims to develop a web-based application to improve the service to the customers and merchant which in turn increases the sales and profit in "online shopping".
- Scope
 - This system allows the customers' to maintain their cart by adding or removing the product. It allows online sales, distribution and marketing of groceries.
 - The online shopping system should provide the facility of 'Buying' of items. There is no credit card payment. Payment is assumed to be by 'Cash on Delivery'.
- Software Interfaces
 - The following are needed requirements.
 - Operating System : Unix, Linux, Mac, Windows etc..
 - Development tool : PHP, JavaScript, Ajax
 - Application: XAMPP application
 - Data Base : MySQL Database Server

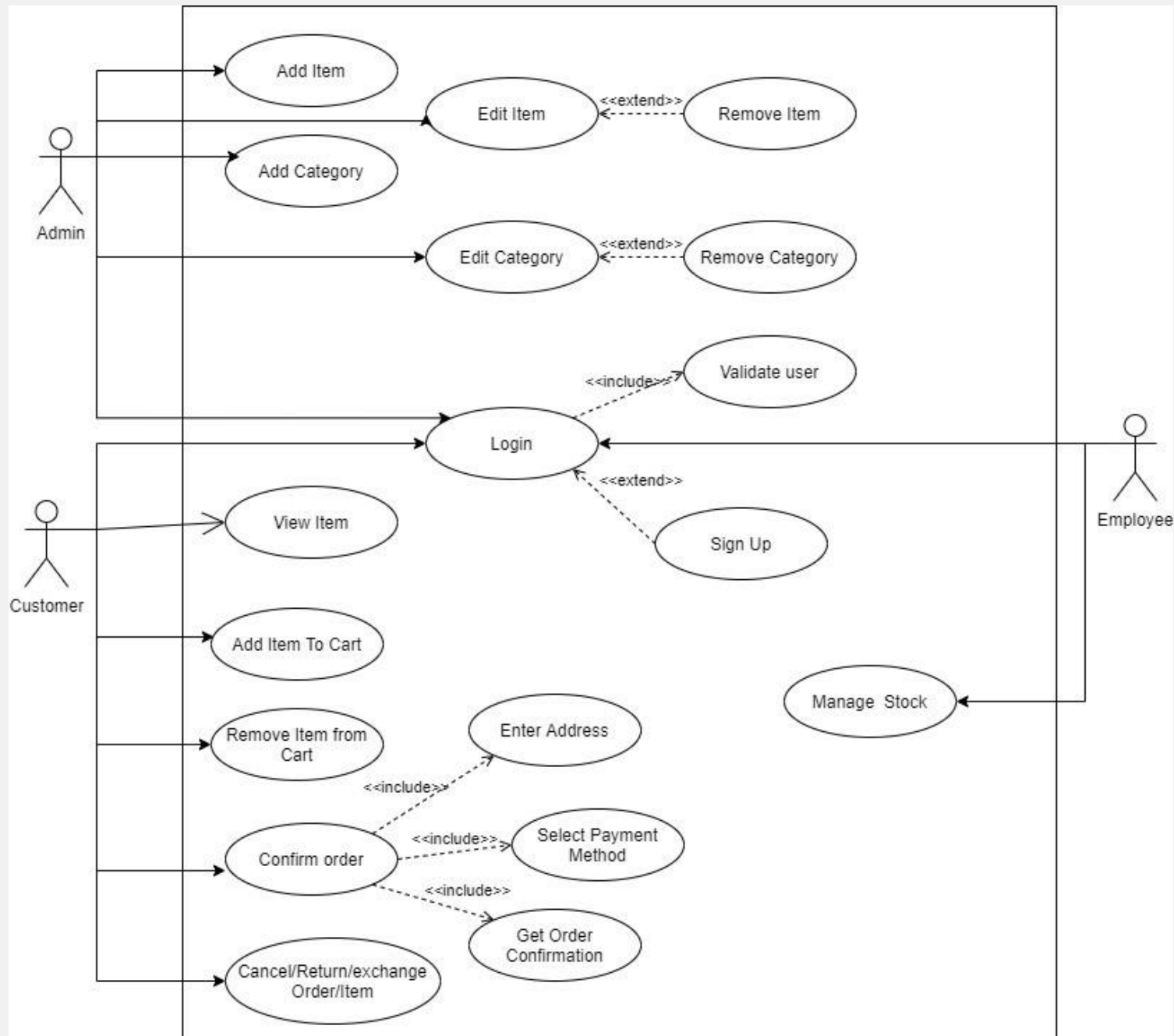
Software Requirement Specifications

- Functional Requirement

- Registration
- Login
- Changes to Cart
- Payment
- Logout

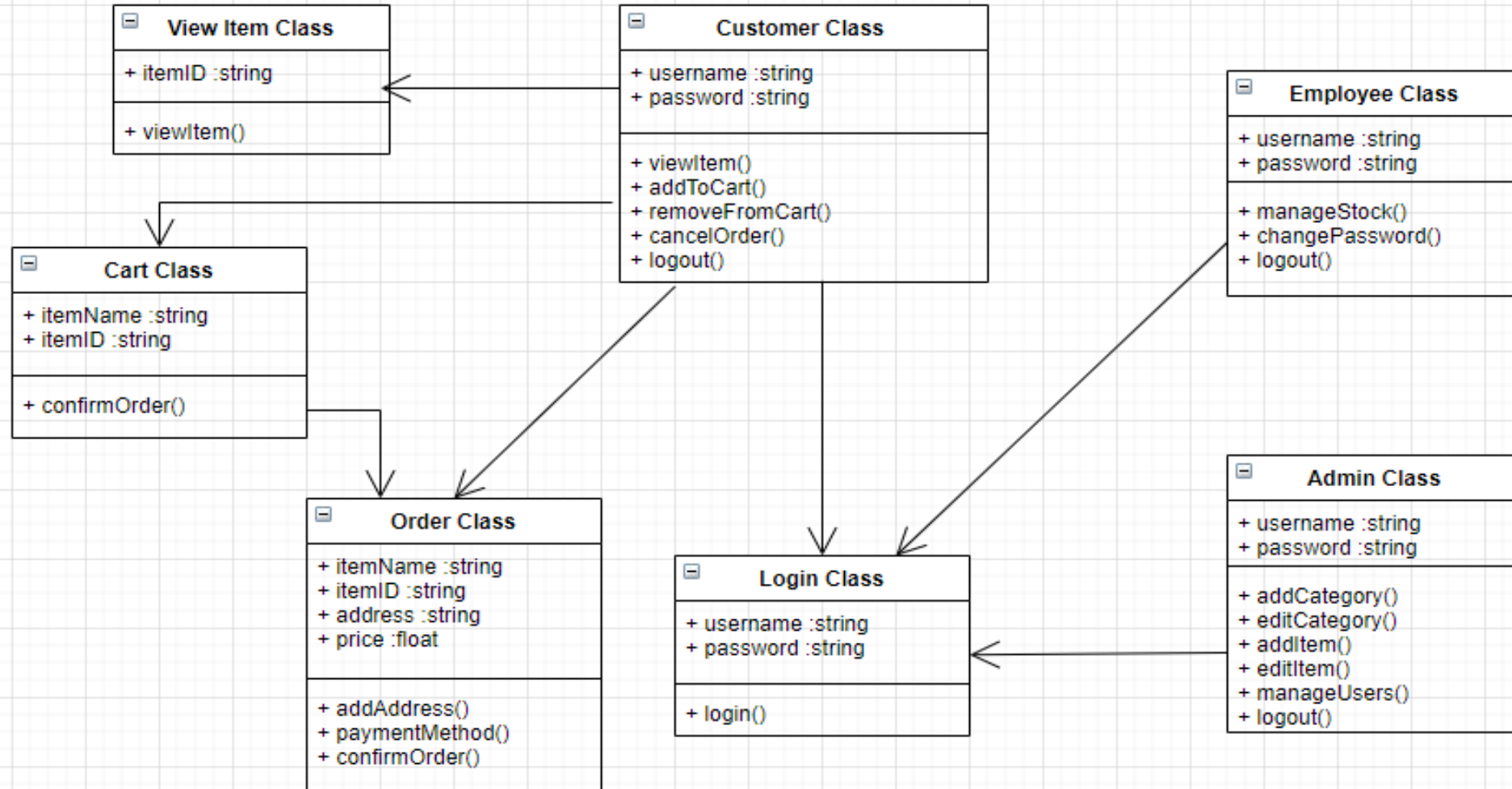
- Non Functional Requirement

- Secure access to customer's confidential data.
- 24X7 availability
- Better component design to get better performance at peak time.
- Security
- Maintainability
- Reusability
- Compatibility

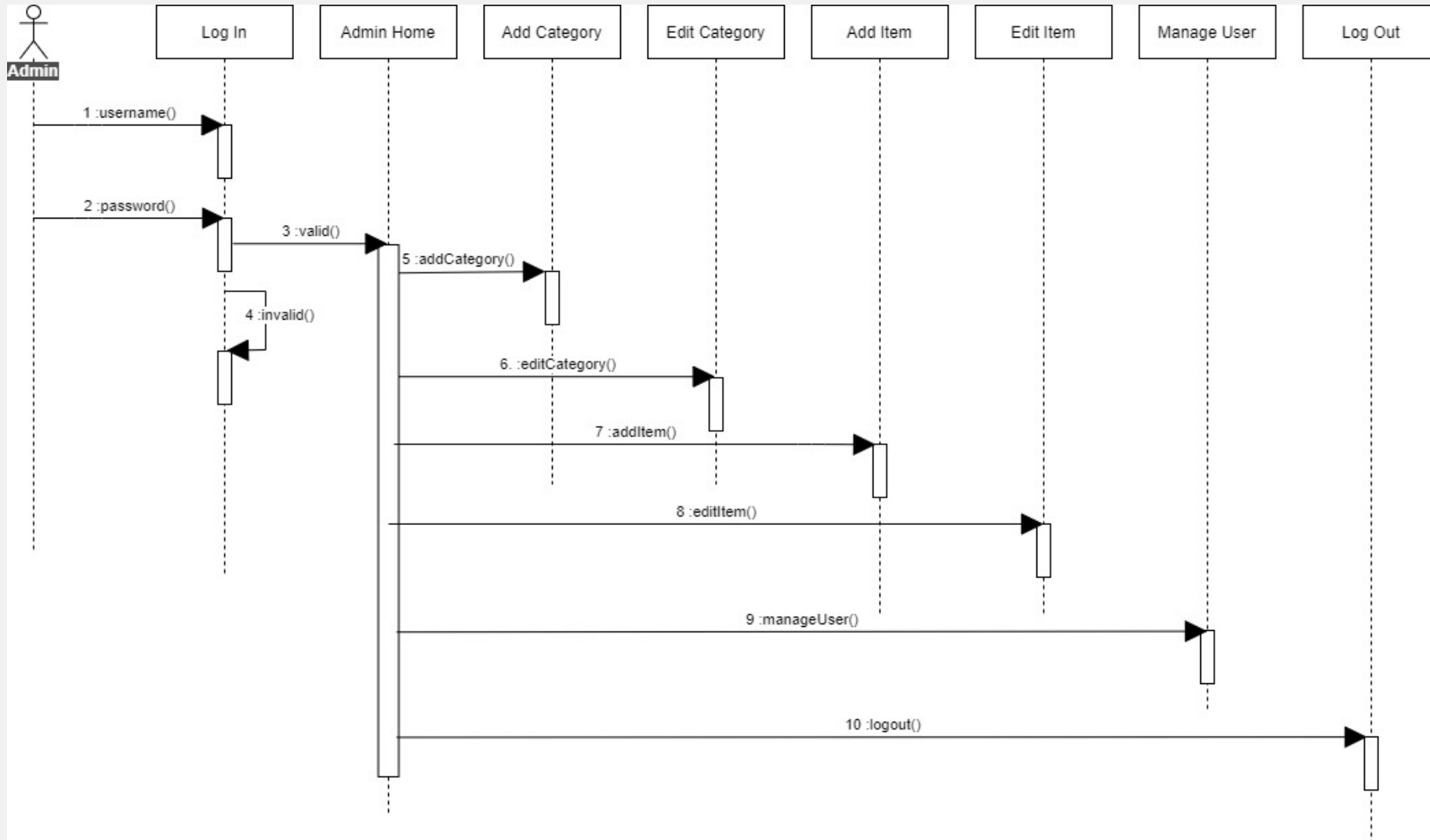


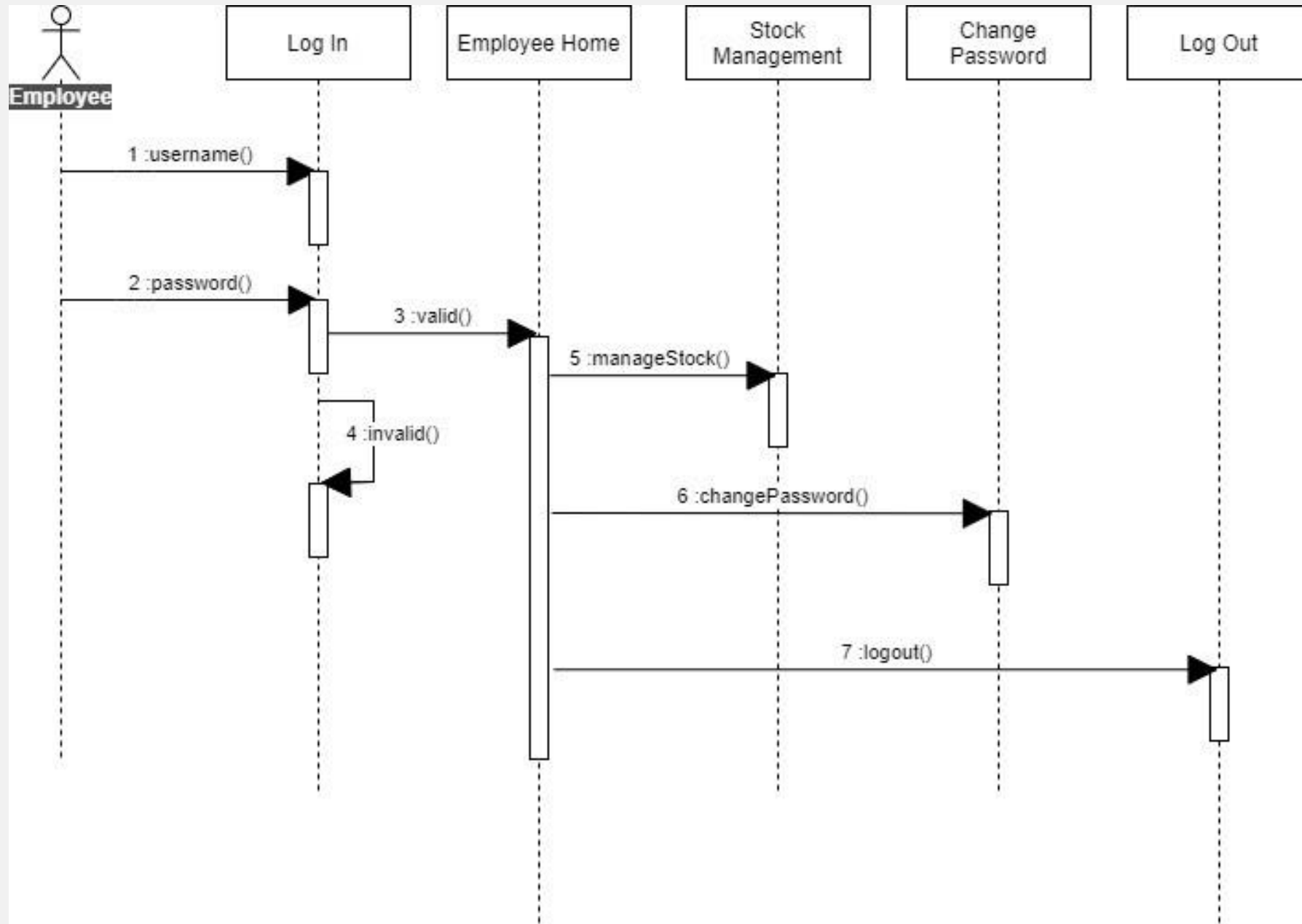
Use Case Diagram

Class Diagram

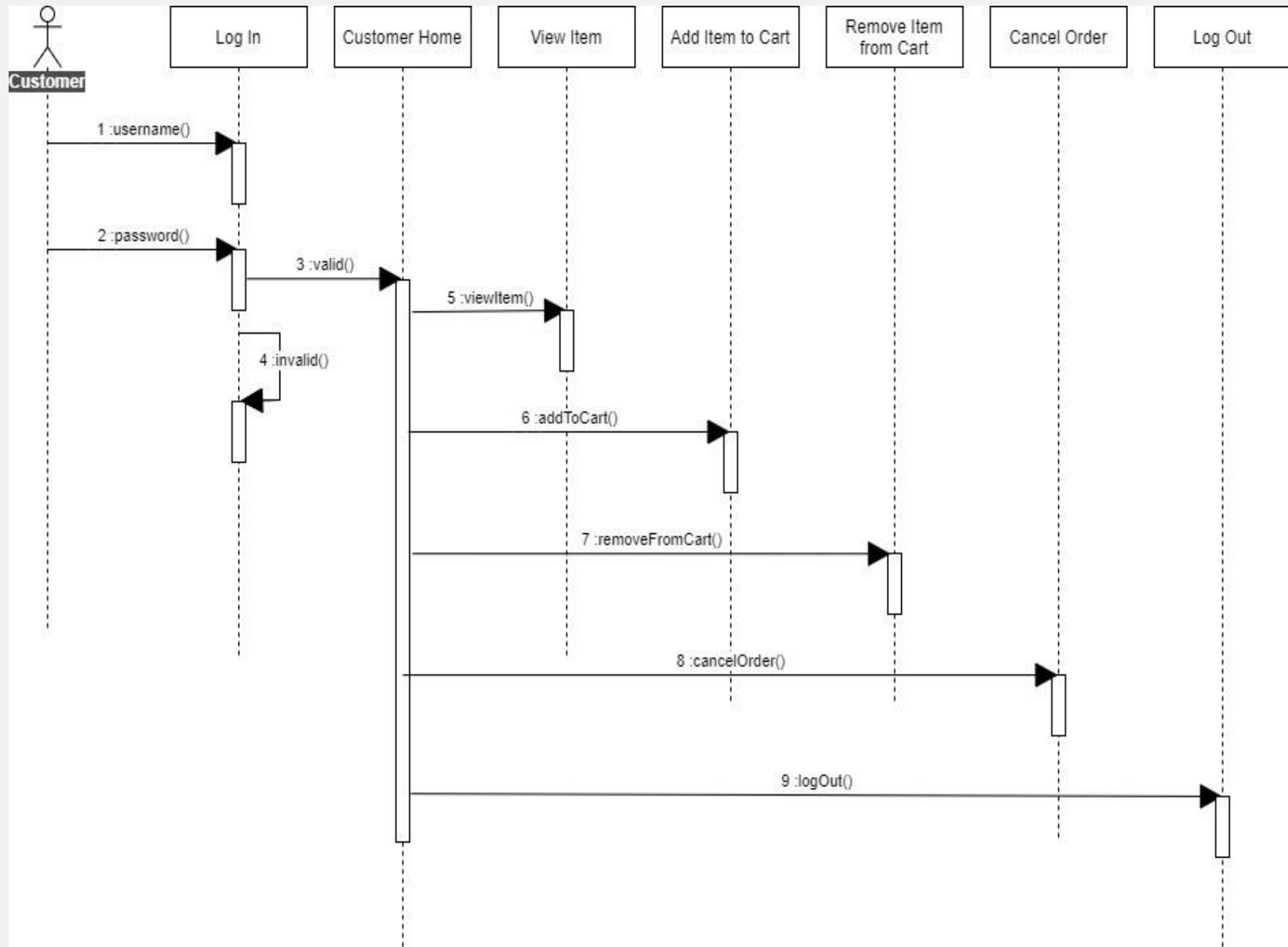


Sequence Diagram (Admin)

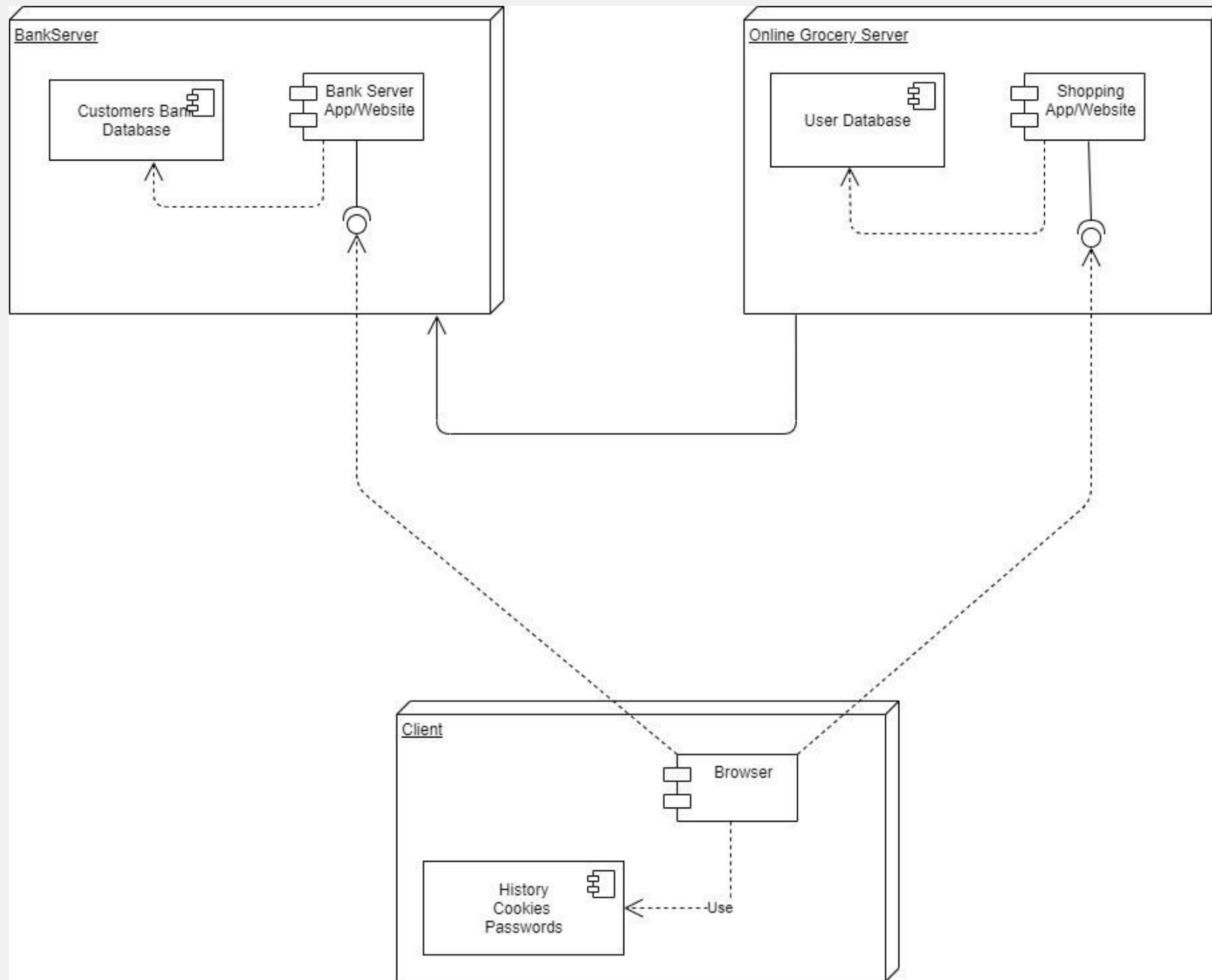




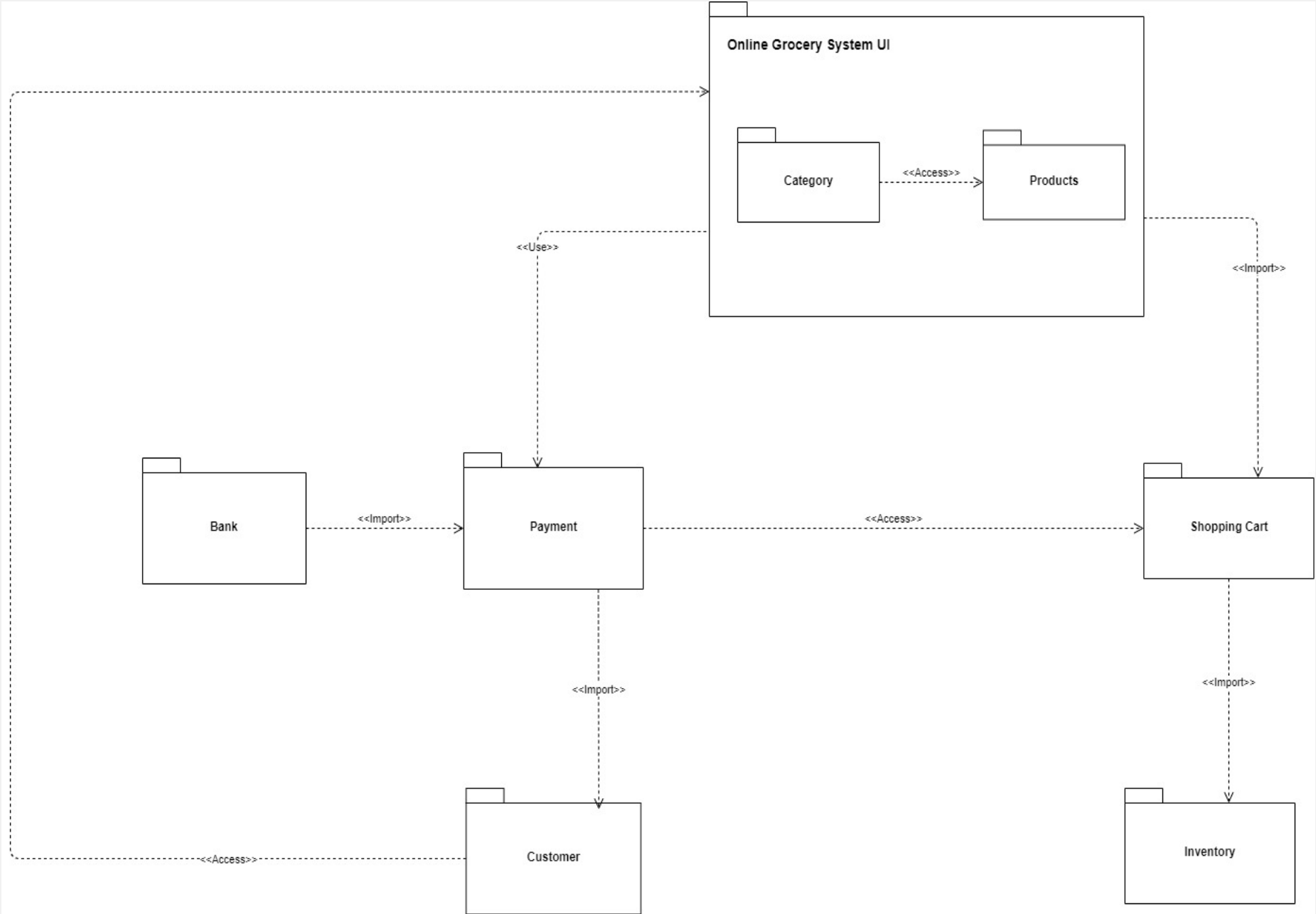
Sequence
Diagram
(Employee)



Sequence
Diagram
(Customer)



Deployment Diagram



Package Diagram

Registration and Login Test Case

- Positive Test Case

- A user clicks on the Register button – a registration form opens.
- A user enters registration details in the correct format – registration is successful.
- A user enters the correct credentials – they log into the account.
- A logged user clicks on Sign Out – the system logs a user off.
- A user clicks on Forgot Password – a password change form pops up.
- A user signs in with a new password entered – the system logs a user in.

- Negative Test Case

- A user tries to register with invalid credentials.
- A user enters incorrect credentials – can't log in.
- The account with the given username is not registered in the system – can't log in.
- A user is not logged in – only features and areas for non-logged users are available.
- A user signs in with an old password entered after password change – can't log in.
- A user signs in with a new password before passing verification via email – can't log in.
- A user signs in with a blocked email address – can't log in.
- A user presses the Back button after logging out – remains logged out.

Shopping Cart Test Case

- Positive Test Case

- Website users can easily add/remove products to/from a shopping cart.
- Users can add the same product multiple times and change their quantity in the cart directly.
- It is possible to add the same products in different variations – colour, size, etc.
- An order price updates when a user adds/removes a new item to/from the cart.
- Price alterations, like vouchers, discounts, special offers, etc. are automatically accounted into the total price.
- Custom and one-time codes work correctly and are applied within the set timelines.

- Negative Test Case

- If an item is out of stock, a user cannot add it to the cart.
- A user cannot add identical items if they become unavailable (out of stock) during shopping.
- When a user removes all items from the cart, nothing is displayed and the total price equals zero.
- When a user closes a tab with a shopping cart, the items should remain in the cart.

Checkout Flow Test Case

- There is a prompt to log in or register before completing the purchase.
- Customers can check out and pay as guest users without registration.
- Returning logged-in users can use pre-saved shipping and billing information.
- All types of supported payment methods work correctly.
- If a certain payment method comes with extra charges, the prices are correct.
- Sensitive information, including payment details, isn't stored after the payment.
- An order confirmation page appears after a successful checkout.
- A user receives an order confirmation message via an email or text message.
- Order status is available in the account for registered users.
- After completing the payment, a user is able to continue navigating through the site.

User Account Test Case

- A logged user can access the My Account area and related settings.
- A user can update and edit their account information, including contacts, shipping address, password, etc.
- A user can view and/or manage order status in the My Orders area.
- Users can view and repeat their previous orders.
- A user can log out using the corresponding button.
- A user should be able to log in from different devices simultaneously.
- A user should be able to log in when making a call via any messenger in the background.
- The application should not cause device heating or battery draining.