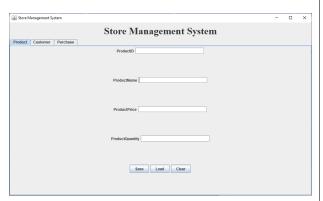
Assignment 4

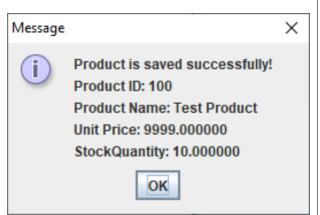
AI-TE KUO

Oct 25, 2019

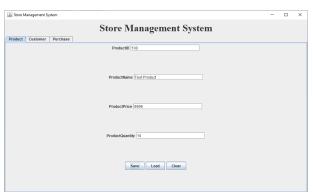
- 1. Rewrite two common use cases for each user story. Sketch the screens the system should display in each use case.
- 2. Design the screens (UI windows and widgets) the system should display in each use case.
 - (a) Product
 - i. Common case When a new product is arrived, the system shall be able to provide a functionality that the user can add a new product to the system.
 - 1. The user clicks on the product tab and the system shall display the add product page.



3. The user clicks on "Save" button and the system shall pop out the message showing the product has been successfully saved.



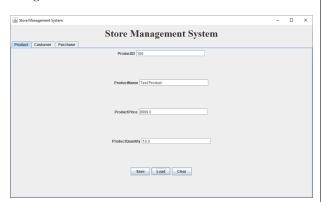
2. The user inputs all the product details.



- ii. Common case It's approaching holidays and the manager would like to make some certain items on sale at 20%off, the system shall provide a functionality that the manager can change the price of items.
 - The user clicks on the product tab and the | 2. The user types the product id. system shall display the add product page.



3. The user clicks on "Load" button and the system shall load all the corresponding item details with the given id.

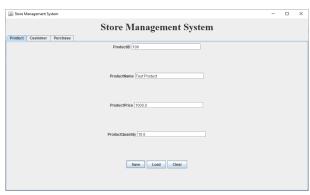


5. The user clicks on "Save" button and the system shall pop out the message showing the product has been successfully edited.





4. The user types the product details to be changed.

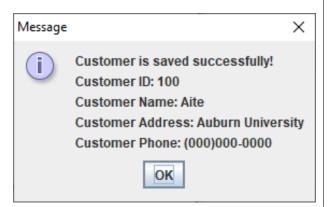


(b) Customer

- i. Common case When the customer wants to register a membership to get benefits at the customer service, the system shall provide a functionality that the employee can help the customer with their membership registration.
 - 1. The user clicks on the customer tab and the system shall display the customer product page.



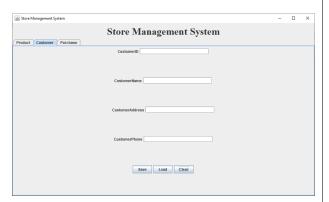
3. The user clicks on "Save" button and the system shall pop out the message showing the customer membership has been successfully registered.



2. The user inputs all the customer details.



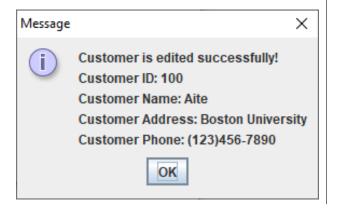
- ii. Common case When the customer recently changed his/her address and phone, the system shall provide a functionality that the customer can change their profile data after the registration.
 - 1. The user clicks on the customer tab and the system shall display the add customer page.



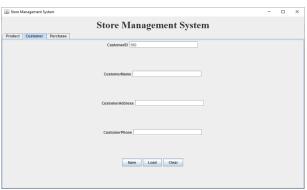
3. The user clicks on "Load" button and the system shall load all the corresponding customer details with the given id.



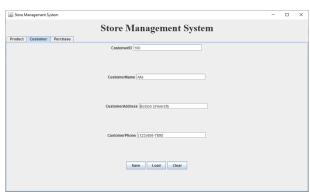
5. The user clicks on "Save" button and the system shall pop out the message showing the product has been successfully edited.



2. The user types the customer id.

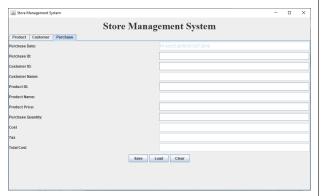


4. The user types the customer details to be changed.

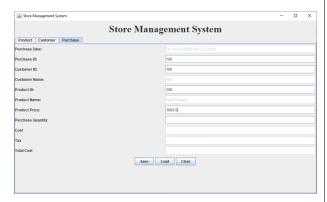


(c) Purchase

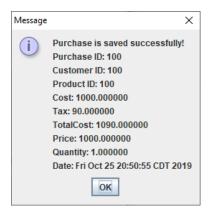
- i. Common case When the user wants to add a purchase in the system, the system shall provide a functionality that the user can record the purchase and transaction history into the database.
 - 1. The user clicks on the product tab and the system shall display the add product page.



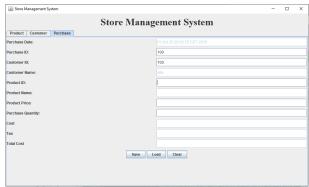
3. When the user types the product id, the system shall automatically display the corresponding product name.



5. The user clicks on "Save" button and the system shall pop out the message showing the purchase is saved.



2. When the user types the customer id, the system shall automatically display the corresponding customer name.



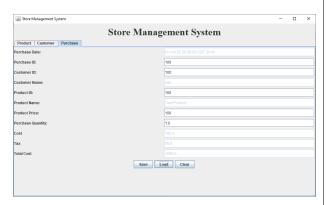
4. When the user types the purchase quantity, the system shall automatically show the cost, tax and total cost.



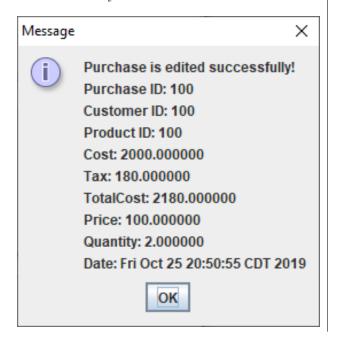
- ii. Common case When the user types in the wrong quantity in the system, the system shall provide a functionality that the user can edit afterwards.
 - 1. The user clicks on the product tab and the system shall display the add purchase page.



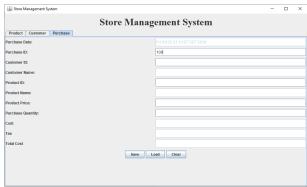
3. The user clicks on "Load" button and the system shall load all the corresponding purchase details with the given id.



5. The user clicks on "Save" button and the system shall pop out the message showing the purchase has been successfully edited.



2. The user types the purchase id.



4. The user types the purchase details to be changed.



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3. Describe the protocol for two sides: client and server.

Answer:

The client encodes the request code and data in a JSON format and sends the JSON text to the server. After the server receives the data, the server starts to processes the request. It first decodes a JSON string, obtains the request code, delegates the request to the corresponding method according to its code, and finally gets the returned result. Afterwards, the server sends back the answer to the client including an error code (status code) and the response data. The client then are able to handle the response according to its error code and data.

Video Demo: https://www.youtube.com/watch?v=RdtJq7_CYNw