

Project 2

Software Architecture

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Case #1

As a user, I want to change my password and/or full name.

Step 1

After the user logins in, the system will be displaying the profile page to the user.

The screenshot shows a web browser window titled "Store Management System". The page has a navigation bar with tabs: "Profile", "Purchase", "Product", and "History". The "Profile" tab is selected. The main content area contains two input fields: "Full Name" with the value "guest" and "Password" which is empty. At the bottom, there are two buttons: "Save" and "Logout".

Step 2

The user types the new password and clicks the save button

The screenshot shows the same "Store Management System" profile page. The "Full Name" field still contains "guest". The "Password" field now contains the text "newpassword". The "Save" and "Logout" buttons remain at the bottom.

Step 3

The system shall pop out the message showing the profile data has been successfully saved.

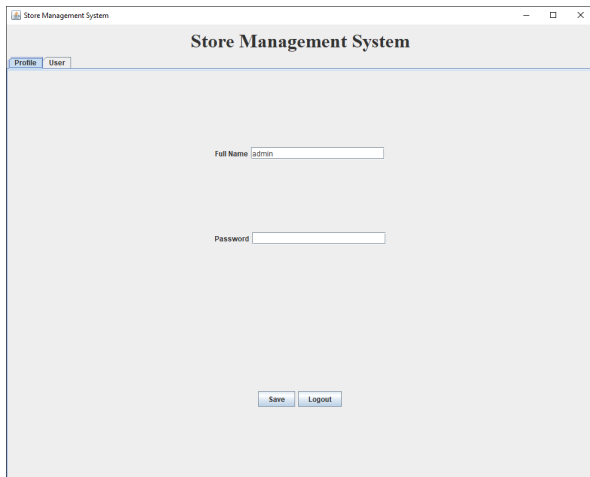
The screenshot shows the "Store Management System" profile page with a modal dialog box titled "Message" displayed in the center. The dialog box contains an information icon (i) and the text "Profile is edited successfully!". There is an "OK" button at the bottom of the dialog. The background page shows the "Full Name" field with "guest" and the "Password" field, which is now empty. The "Save" and "Logout" buttons are still visible at the bottom.

Case #2

As an admin, I want to add a new user into the system.

Step 1

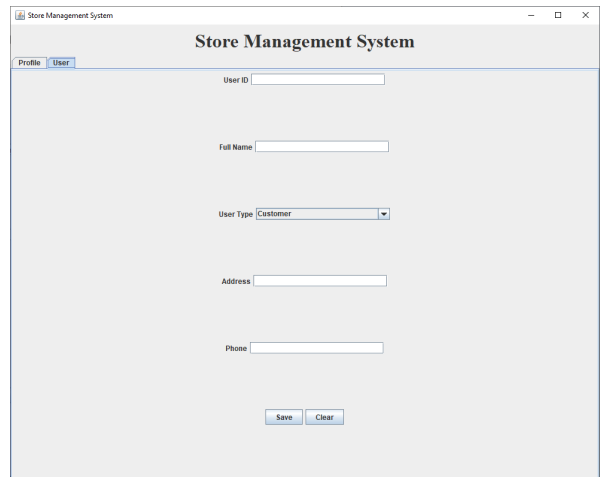
After the admin logs in, the system will be displaying the profile page to the user.



The screenshot shows the 'Store Management System' window with the 'Profile' tab selected. The form contains the following fields: 'Full Name' with the value 'admin', 'Password' (empty), and 'Save' and 'Logout' buttons at the bottom.

Step 2

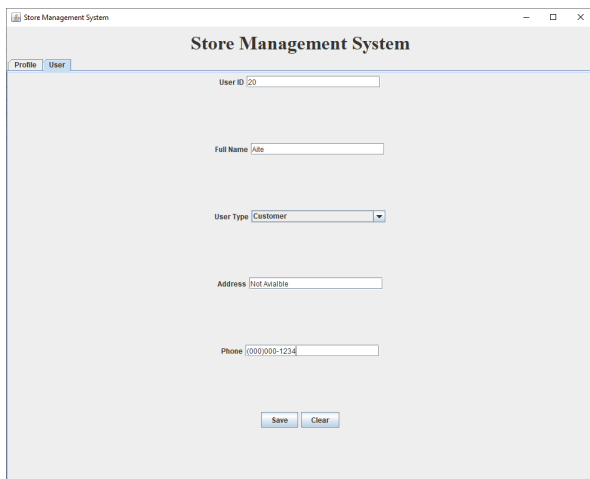
The admin clicks on the user tab and the system shall display the user management page.



The screenshot shows the 'Store Management System' window with the 'User' tab selected. The form contains the following fields: 'User ID' (empty), 'Full Name' (empty), 'User Type' (dropdown menu showing 'Customer'), 'Address' (empty), 'Phone' (empty), and 'Save' and 'Clear' buttons at the bottom.

Step 3

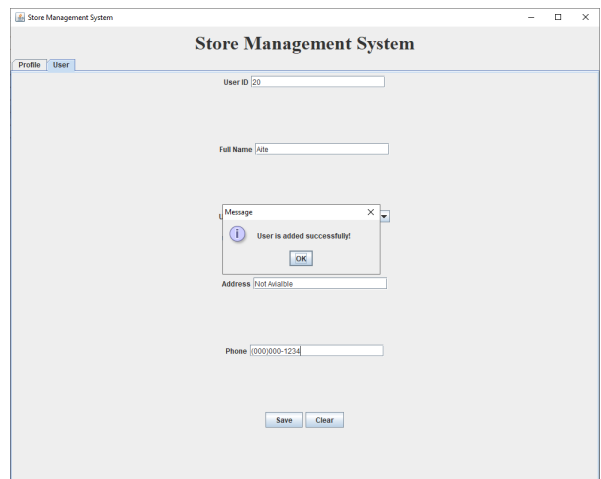
The admin types all the user information and clicks the save button.



The screenshot shows the 'Store Management System' window with the 'User' tab selected. The form contains the following fields: 'User ID' with the value '20', 'Full Name' with the value 'Ails', 'User Type' (dropdown menu showing 'Customer'), 'Address' with the value 'Not Available', 'Phone' with the value '000000-1234', and 'Save' and 'Clear' buttons at the bottom.

Step 4

The system shall pop out the message showing the user has been successfully created.



The screenshot shows the 'Store Management System' window with the 'User' tab selected. The form contains the following fields: 'User ID' with the value '20', 'Full Name' with the value 'Ails', 'User Type' (dropdown menu showing 'Customer'), 'Address' with the value 'Not Available', 'Phone' with the value '000000-1234', and 'Save' and 'Clear' buttons at the bottom. A 'Message' dialog box is displayed in the center, showing an information icon and the text 'User is added successfully!' with an 'OK' button.

Case #3

As an admin, I want to update the type/class of a user into the system (e.g., from cashier to manager).

Step 1

After the admin logs in, the system will be displaying the profile page to the user.

The screenshot shows the 'Store Management System' window with the 'Profile' tab selected. The form contains fields for 'Full Name' (with the value 'admin') and 'Password'. At the bottom, there are 'Save' and 'Logout' buttons.

Step 2

The admin clicks on the user tab and the system shall display the user management page.

The screenshot shows the 'Store Management System' window with the 'User' tab selected. The form includes fields for 'User ID', 'Full Name', 'User Type' (a dropdown menu currently showing 'Customer'), 'Address', and 'Phone'. At the bottom, there are 'Save' and 'Clear' buttons.

Step 3

The admin types the user id and the system shall display all the associated information.

The screenshot shows the 'Store Management System' window with the 'User' tab selected. The form is populated with data: 'User ID' is '20', 'Full Name' is 'John', 'User Type' is 'Customer', 'Address' is 'Not Available', and 'Phone' is '(000)000-1234'. At the bottom, there are 'Save' and 'Clear' buttons.

Step 4

The admin uses the dropdown menu to change the user type and clicks on the save button.

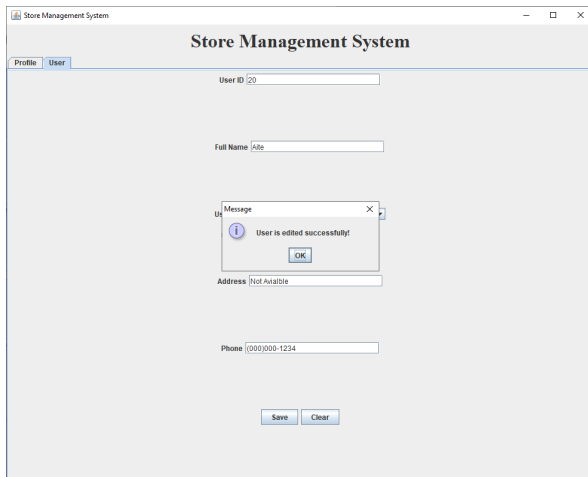
The screenshot shows the 'Store Management System' window with the 'User' tab selected. The form is populated with data: 'User ID' is '20', 'Full Name' is 'John', 'User Type' is 'Admin' (selected in the dropdown), 'Address' is 'Not Available', and 'Phone' is '(000)000-1234'. At the bottom, there are 'Save' and 'Clear' buttons.

Case #3

As an admin, I want to update the type/class of a user into the system (e.g., from cashier to manager).

Step 5

The system shall pop out the message showing the user type has been successfully edited.



The screenshot shows a web application window titled "Store Management System". Inside, there's a "User" profile form with fields for "User ID", "Full Name", "Address", and "Phone". A modal message box is displayed in the center, stating "User is edited successfully!" with an "OK" button. The "Save" and "Clear" buttons are at the bottom of the form.

Store Management System

Profile User

User ID 20

Full Name Ade

Message

User is edited successfully!

OK

Address Not Available

Phone 000000-1234

Save Clear

Case #4

As a manager, I want to add a new product or update a current product in the system.

Step 1

After the manager logs in, the system shall display the profile, product, and sales tab on the top.

The screenshot shows the 'Store Management System' window with the 'Profile' tab selected. The form contains two input fields: 'Full Name' with the value 'manager' and 'Password'. At the bottom, there are two buttons: 'Save' and 'Logout'.

Step 2

The manager clicks on the product tab in order to add or update a product in the system.

The screenshot shows the 'Store Management System' window with the 'Product' tab selected. The form contains four input fields: 'ProductID', 'ProductName', 'ProductPrice', and 'ProductQuantity'. At the bottom, there are two buttons: 'Save' and 'Clear'.

Step 3

The manager types in the product id to see if the product exists in the system. If the system doesn't present any associated details with the product id provided, it means there exists no such product with the product id provided.

The screenshot shows the 'Store Management System' window with the 'Product' tab selected. The 'ProductID' field contains the value '1'. The other fields ('ProductName', 'ProductPrice', 'ProductQuantity') are empty. At the bottom, there are two buttons: 'Save' and 'Clear'.

Step 4

After the manager types in the product id, the system shall automatically display all the associated details.

The screenshot shows the 'Store Management System' window with the 'Product' tab selected. The 'ProductID' field contains the value '1'. The other fields are populated with data: 'ProductName' is 'Coca', 'ProductPrice' is '99.0', and 'ProductQuantity' is '4.05'. At the bottom, there are two buttons: 'Save' and 'Clear'.



Case #4

As a manager, I want to add a new product or update a current product in the system.

Step 5

The manager updates the product price and clicks on the save button.

Store Management System

ProfileProduct

ProductID1

ProductNameClay

ProductPrice99.9

ProductQuantity3

Save

Clear

Step 6

The system shall pop out the message showing the product information has been successfully edited.

Store Management System

ProfileProduct

ProductID1

ProductNameClay

ProductPrice99.9

ProductQuantity3

Save

Clear

Message

Product is saved successfully!

Product ID: 1

Product Name: Clay

Unit Price: 99.90000000

Stock Quantity: 3.00000000

OK

Case #5

As a manager, I want to view a summary report of sales from the system.

Step 1

After the manager logs in, the system shall display the profile, product, and sales tab on the top.

Store Management System

Profile Product Sales

Full Name: manager

Password:

Save Logout

Step 2

After the manager clicks on the sales tab, the system shall show all the purchases made within the past one month.

Store Management System

Profile Product Sales

Total sales: 1148.7519 Start Date: 2019/11/05 01:28:45 End Date: 2019/12/05 01:28:45 Search

Date	Product Name	Price	Quantity	Total Sales
2019/11/16 17:58:01	Clay	19.99	3.0	65.3673
2019/11/27 21:47:14	Baby Stroller	299.99	1.0	325.9891
2019/12/01 09:25:41	XBOX ONE S	299.99	2.0	653.9782
2019/12/03 10:41:23	Heated Guns	29.99	3.0	89.9873
2019/12/05 00:25:02	Heated Guns	4.0	1.0	4.36

Step 3

The manager types in the start and end date to see the purchase history.

Store Management System

Profile Product Sales

Total sales: 1148.7519 Start Date: 2019/12/01 01:28:45 End Date: 2019/12/05 01:28:45 Search

Date	Product Name	Price	Quantity	Total Sales
2019/11/16 17:58:01	Clay	19.99	3.0	65.3673
2019/11/27 21:47:14	Baby Stroller	299.99	1.0	325.9891
2019/12/01 09:25:41	XBOX ONE S	299.99	2.0	653.9782
2019/12/03 10:41:23	Heated Guns	29.99	3.0	89.9873
2019/12/05 00:25:02	Heated Guns	4.0	1.0	4.36

Step 4

After the manager clicks on the search button, the system shall present all the purchases made within the period.

Store Management System

Profile Product Sales

Total sales: 124.4955000000001 Start Date: 2019/12/01 01:28:45 End Date: 2019/12/05 01:28:45 Search

Date	Product Name	Price	Quantity	Total Sales
2019/12/01 09:25:41	XBOX ONE S	299.99	2.0	653.9782
2019/12/03 10:41:23	Heated Guns	29.99	3.0	89.9873
2019/12/05 00:25:02	Heated Guns	4.0	1.0	4.36

Case #6

As a cashier, I want to add a new customer or update a current customer in the system.

Step 1

After the cashier logs in, the system shall display the profile, customer, and purchase tab on the top.

The screenshot shows the 'Store Management System' login interface. At the top, there are three tabs: 'Profile', 'Customer', and 'Purchase'. The 'Profile' tab is selected. Below the tabs, there are two input fields: 'Full Name' with the text 'cashier' and 'Password'. At the bottom, there are two buttons: 'Save' and 'Logout'.

Step 2

The cashier clicks on the customer page in order to add or update a customer in the system.

The screenshot shows the 'Store Management System' customer page. The 'Customer' tab is selected. Below the tabs, there are four input fields: 'CustomerID', 'CustomerName', 'CustomerAddress', and 'CustomerPhone'. At the bottom, there are two buttons: 'Save' and 'Clear'.

Step 3

The cashier types in the customer id to see if the customer exists in the system. If the system doesn't present any associated details with the customer id provided, it means there exists no such customer with the customer id provided.

The screenshot shows the 'Store Management System' customer page. The 'Customer' tab is selected. Below the tabs, there are four input fields: 'CustomerID' with the text '5', 'CustomerName', 'CustomerAddress', and 'CustomerPhone'. At the bottom, there are two buttons: 'Save' and 'Clear'.

Step 4

After the cashier types in the customer id, the system shall automatically display all the associated customer information.

The screenshot shows the 'Store Management System' customer page. The 'Customer' tab is selected. Below the tabs, there are four input fields: 'CustomerID' with the text '5', 'CustomerName' with the text 'Taylor', 'CustomerAddress' with the text 'Not Available', and 'CustomerPhone' with the text '034512-3123'. At the bottom, there are two buttons: 'Save' and 'Clear'.

Case #6

As a cashier, I want to add a new customer or update a current customer in the system.

Step 5

The cashier updates the customer information and clicks on the save button.

Store Management System

ProfileCustomerPurchase

CustomerID

6

CustomerName

Taylor

CustomerAddress

Auburn

CustomerPhone

(334)512-3126

Save

Clear

Step 6

The system shall pop out the message showing the customer information has been successfully saved.

Store Management System

ProfileCustomerPurchase

CustomerID

6

CustomerName

Taylor

CustomerAddress

Auburn

CustomerPhone

(334)512-3126

Save

Clear

Message

Customer is edited successfully!

User ID: 6

User Name: Taylor

User Address: Auburn

User Phone: (334)512-3126

OK

Case #7

As a cashier, I want to add a new purchase or update a current purchase (only price and quantity) in the system.

Step 1

After the cashier logs in, the system shall display the profile, customer, and purchase tab on the top.

Store Management System

Profile Customer Purchase

Full Name: Cashier

Password:

Save Logout

Step 2

The cashier clicks on the purchase tab in order to add or update a purchase in the system.

Store Management System

Profile Customer Purchase

Purchase ID:

Customer ID:

Customer Name:

Product ID:

Product Name:

Product Price:

Purchase Quantity:

Cost:

Tax:

Total Cost:

Save Clear

Step 3

The cashier types in the purchase id to see if the customer exists in the system. If the system doesn't present any associated details with the purchase id provided, it means there exists no such purchase with the purchase id provided.

Store Management System

Profile Customer Purchase

Purchase ID: 1

Customer ID: 1

Customer Name: David

Product ID: 1

Product Name: Clay

Product Price: 1

Purchase Quantity: 2.0

Cost: 2.0

Tax: 22.14

Total Cost: 258.14

Save Clear

Step 4

After the cashier types in a new purchase id that is never used, the system shall clear all values in the fields.

Store Management System

Profile Customer Purchase

Purchase ID: 10

Customer ID:

Customer Name:

Product ID:

Product Name:

Product Price:

Purchase Quantity:

Cost:

Tax:

Total Cost:

Save Clear

Case #7

As a cashier, I want to add a new purchase or update a current purchase (only price and quantity) in the system.

Step 5

After the cashier types the product id, the system shall display the corresponding price.

Store Management System		
Profile	Customer	Purchase
Purchase ID:	18	
Customer ID:		
Customer Name:		
Product ID:	3	
Product Name:	55 inch TV	
Product Price:	749.99	
Purchase Quantity:		
Cost:		
Tax:		
Total Cost:		

Save Clear

Step 6

After the system receives the product price and the product quantity, the system shall automatically output the cost, tax, and total cost.

Store Management System		
Profile	Customer	Purchase
Purchase ID:	18	
Customer ID:	1	
Customer Name:	quasi	
Product ID:	3	
Product Name:	55 inch TV	
Product Price:	749.99	
Purchase Quantity:	2	
Cost:	1499.98	
Tax:	134.9982	
Total Cost:	1634.9782	

Save Clear

Step 7

If the cashier wants to change the price of the product, the system shall allow the cashier to do so and also compute the new cost, tax, and total cost.

Store Management System		
Profile	Customer	Purchase
Purchase ID:	18	
Customer ID:	1	
Customer Name:	quasi	
Product ID:	3	
Product Name:	55 inch TV	
Product Price:	3	
Purchase Quantity:	2	
Cost:	6.0	
Tax:	0.54	
Total Cost:	6.54	

Save Clear

Step 8

After the cashier clicks on the save button, the system shall pop out the message showing the purchase has been successfully made or updated.

Store Management System		
Profile	Customer	Purchase
Purchase ID:	18	
Customer ID:	1	
Customer Name:	quasi	
Product ID:	3	
Product Name:	55 inch TV	
Product Price:	3	
Purchase Quantity:	2	
Cost:	6.0	
Tax:	0.54	
Total Cost:	6.54	

Save Clear

Message
Purchase is made successfully!
OK

Case #8

As a customer, I want to add a new purchase into the system.

Step 1

After the customer logs in, the system shall display the profile, purchase, product and history tab on the top.

The screenshot shows the 'Store Management System' login interface. At the top, there are four tabs: 'Profile', 'Purchase', 'Product', and 'History'. The 'Profile' tab is selected. Below the tabs, there are two input fields: 'Full Name' with the value 'Customer' and 'Password'. At the bottom, there are two buttons: 'Save' and 'Logout'.

Step 2

The customer clicks on the purchase tab in order to make a purchase in the system.

The screenshot shows the 'Store Management System' purchase interface. The 'Purchase' tab is selected. The form contains the following fields: 'Product ID', 'Product Name', 'Product Price', 'Purchase Quantity', 'Cost', 'Tax', and 'Total Cost'. At the bottom, there are two buttons: 'Purchase' and 'Clear'.

Step 3

The customer types in the product id and the system will present the product name. If the product doesn't exist, the system shall pop out the error message.

The screenshot shows the 'Store Management System' purchase interface. The 'Purchase' tab is selected. The 'Product ID' field contains the value '2'. The 'Product Name' field is populated with 'Heated Gums'. The 'Product Price' field contains the value '4.0'. The 'Purchase Quantity' field is empty. The 'Cost' field contains the value '4.0'. The 'Tax' field contains the value '0.30'. The 'Total Cost' field contains the value '4.30'. At the bottom, there are two buttons: 'Purchase' and 'Clear'.

Step 4

After the customer types the product id and the quantity, the system shall calculate the cost breakdowns.

The screenshot shows the 'Store Management System' purchase interface. The 'Purchase' tab is selected. The 'Product ID' field contains the value '2'. The 'Product Name' field is populated with 'Heated Gums'. The 'Product Price' field contains the value '4.0'. The 'Purchase Quantity' field contains the value '1'. The 'Cost' field contains the value '4.0'. The 'Tax' field contains the value '0.30'. The 'Total Cost' field contains the value '4.30'. At the bottom, there are two buttons: 'Purchase' and 'Clear'.

Case #8

As a customer, I want to add a new purchase into the system.

Step 5

After the customer clicks on the purchase button, the system shall pop out the message showing the purchase has been successfully made.

Store Management System

ProfilePurchaseProductHistory

Product ID:

2

Product Name:

Heated Gums

Product Price:

4.0

Purchase Quantity:

1

Cost:

4.0

Tax:

Total Cost:

Message

Purchase is made!

OK

Purchase

Clear

Case #9

As a customer, I want to view my purchase history into the system.

Step 1

After the customer logs in, the system shall display the profile, purchase, product and history tab on the top.

Store Management System

Profile Purchase Product History

Full Name Customer

Password

Save Logout

Step 2

After the customer clicks on the purchase tab, the system shall present the purchase history.

Store Management System

Profile Purchase Product History

Date	Name	Price	Quantity	Cost	Tax	TotalCost
Wed Dec 04 23:49:34 CST 2019	Heated Guns	4.0	1.0	4.0	0.36	4.36

Case #10

As a customer, I want to search for product information (based on name, price) in the system.

Step 1

After the customer logs in, the system shall display the profile, purchase, product and history tab on the top.

Store Management System

Profile Purchase Product History

Full Name: Customer

Password:

Save Logout

Step 2

After the customer clicks on the product tab, the system shall present all the product information.

Store Management System

Profile Purchase Product History

Product Name: Product Min Price: 0 Product Max Price: 100000 Search

ID	Name	Price	Availability
1	Clay	99.0	In stock
2	Headed Guns	4.0	In stock
3	65 inch TV	749.99	In stock
4	PS4	399.99	In stock
5	XBOX ONE S	299.99	In stock
6	Amazon Kindle	199.99	In stock
7	Baby Stroller	299.99	In stock
8	Baby Diaper	2.99	In stock

Step 3

The customer types the search keyword, minimum price, and maximum price.

Store Management System

Profile Purchase Product History

Product Name: Baby Product Min Price: 0 Product Max Price: 300 Search

ID	Name	Price	Availability
1	Clay	99.0	In stock
2	Headed Guns	4.0	In stock
3	65 inch TV	749.99	In stock
4	PS4	399.99	In stock
5	XBOX ONE S	299.99	In stock
6	Amazon Kindle	199.99	In stock
7	Baby Stroller	299.99	In stock
8	Baby Diaper	2.99	In stock

Step 4

After the customer clicks on the search button, the system will display the corresponding product with the factors provided.

Store Management System

Profile Purchase Product History

Product Name: Baby Product Min Price: 0 Product Max Price: 300 Search

ID	Name	Price	Availability
7	Baby Stroller	299.99	In stock
8	Baby Diaper	2.99	In stock