Main Links

GitHub

https://github.com/meghna-dash/store-management-system

Testing Videos

https://www.loom.com/share/4006b2d145a845829c68952602ca28b8

https://www.loom.com/share/6590eae61c7644859430876143037376

Project 3

Store Management System

User Stories: Every persona has different needs.



Use Cases (User)

Action	Regular Cases	Irregular Case	
Change Name or Password	All required fields are filled correctly and of correct type.	Values are of the incorrect type or required field (id) is not filled.	

Use Cases (Admin)

Action	Regular Cases	Irregular Case
Add a New User	All required fields are filled correctly and of correct type.	Values are of the incorrect type or required field (id) is not filled.
Update the Type of a User	All required fields are filled correctly and of correct type.	Values are of the incorrect type or required field (id) is not filled.

Use Cases (Manager)

Action	Regular Cases	Irregular Case
Add/Update a Product	All required fields are filled correctly and of correct type	Values are of the incorrect type or required field (id) is not filled.
View a Summary Report	The summary report is generated with no errors.	There is an error retrieving or showing the summary info.

Use Cases (Cashier)

Action	Regular Cases	Irregular Case
Add/Update a Customer	All required fields are filled correctly and of correct type	Values are of the incorrect type or required field (id) is not filled.
Add/Update a Purchase	All required fields are filled correctly and of correct type	Values are of the incorrect type or required field (id) is not filled.

Task 1: Rewrite two common use cases for each user story. Sketch the screens the system should display in each use case.

Use Cases (Customer)

Action	Regular Cases	Irregular Case
Add/Update a Purchase	All required fields are filled correctly and of correct type	Values are of the incorrect type or required field (id) is not filled.
View Purchase History	The purchase history report is generated with no errors.	There is an error retrieving or showing the purchase info.
Search for a Product	All required fields are filled correctly and items are shown.	Values are of the incorrect type or required field (id) is not filled.

Design: User Views

Different types of users have different home pages.

Admin Home Page

Set System Configuration

Add a New User Delete an Existing User

Manager Home Page

View Sales Summary Report

Add a New Product Update an Existing Product

Cashier Home Page

Add or Update a Customer

Add or Update a Purchase

Report an Issue to Manager

Customer Home Page

Make a New Purchase

View Purchases

Search for Products

UI: Add/Update Product

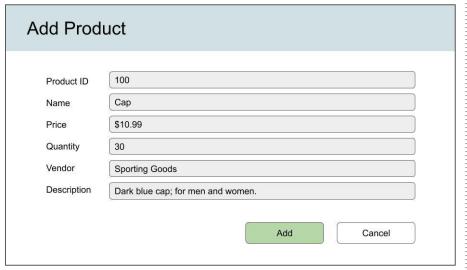
Design UI and write use case for "add or update a product in the system".

1. **Actor** selects Add Product

2. System displays Add Product Screen

			Add Product
Add Product	Customers	New Sale	Product ID Name Price Quantity Vendor
			Description Add Cancel

3. **Actor** adds information & clicks Add button.



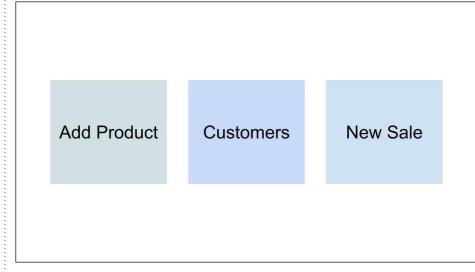
4. **System** hides Add Product screen and shows confirmation.



5. Actor clicks on Okay button



6. **System** closes pop-up and returns to main screen



Add Product Customers New Sale

Add Product

Product ID	
Name	
Price	
Quantity	
Vendor	
Description	

Add

Cancel

Add Product

Product ID 100

Name Cap

Price \$10.99

Quantity 30

Vendor Sporting Goods

Description Dark blue cap; for men and women.

Add

Cancel

New product added successfully!

Okay

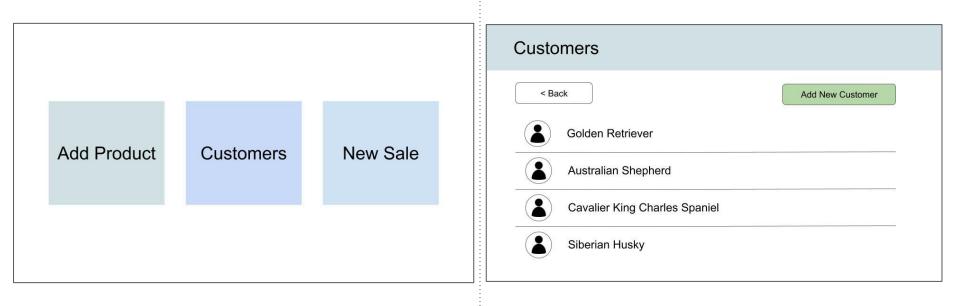
Add Product Customers New Sale

UI: Add/Update a Customer

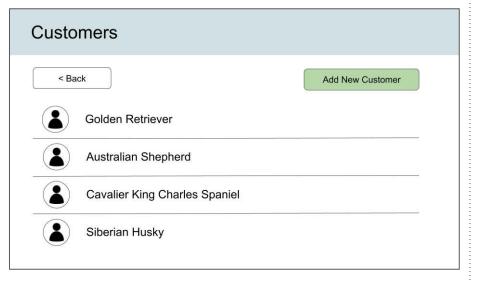
Design UI and write use case for "add or update a customer in the system".

1. Actor selects Customers

2. **System** displays list of all customers



3. **Actor** clicks Add New Customer



4. **System** shows Add New Customer screen

Add New	Customer			
Customer ID Name				
		Add	Cancel	

5. **Actor** adds information & clicks Add button.



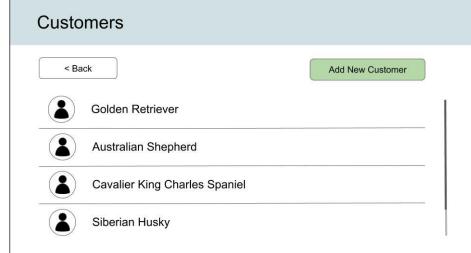
6. **System** hides Add Customer screen and shows confirmation.



7. Actor clicks on Okay button



8. **System** closes pop-up and shows updated list of customers



Add Product Customers New Sale

Customers

< Back

Add New Customer



Golden Retriever



Australian Shepherd



Cavalier King Charles Spaniel



Siberian Husky

Add New Customer

Customer ID	
Name	

Add

Cancel

Add New Customer

Customer ID 101

Name Bichon Frise

Add

Cancel

New customer added successfully!

Okay

Customers

< Back

Add New Customer



Golden Retriever



Australian Shepherd



Cavalier King Charles Spaniel



Siberian Husky

Add Product Customers New Sale

UI: Add/Update a Purchase

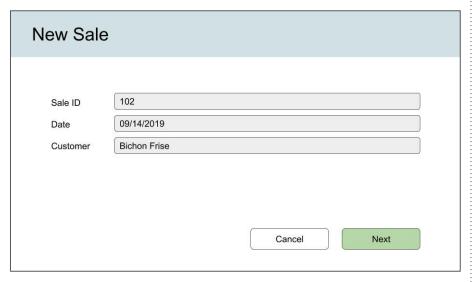
Design UI and write use case for "record or edit a purchase from a customer into the system".

1. Actor selects New Sale

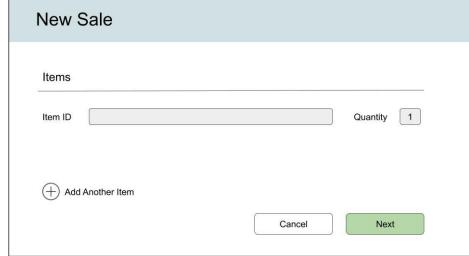
2. **System** displays Add New Sale page

			New Sale	
Add Product	Customers	New Sale	Sale ID Date Customer	Cancel Next

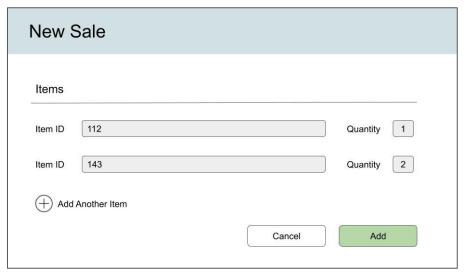
3. **Actor** adds basic information & clicks Next button.



4. **System** shows fields to add items.



5. **Actor** add items in the sale and clicks add.



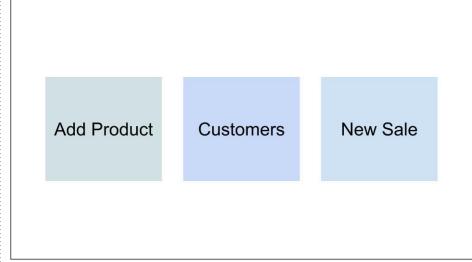
6. **System** shows confirmation and hides the New Sale screens



7. Actor clicks okay



6. **System** takes the user back to the main screen



Add Product Customers New Sale

Sale ID	
Date	
Customer	

Cancel

Next

Sale ID 102

Date 09/14/2019

Customer Bichon Frise

Cancel

Next

Items

Item ID

Quantity

1

Add Another Item

Cancel

Next

Items

Item ID 112

Quantity 1

Item ID

143

Quantity

2

Add Another Item

Cancel

Add

New sale added successfully!

Okay

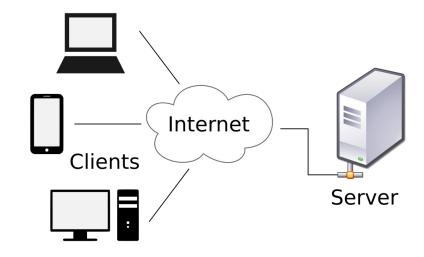
Add Product Customers New Sale

Task 2: Redesign the Data Access layer at the client side that can load/save data to a remote server component. Describe the protocol.

Client Side

The client side needs to load and save data to a remote server component.

I am running the GUI locally. The local GUI makes requests to a local SQL server. I am constantly making requests to the database, starting with the login process. Once I am logged in, the user can only view information specific to their account. As the user navigates the application, the client makes requests to the server for the data it needs to show the user.

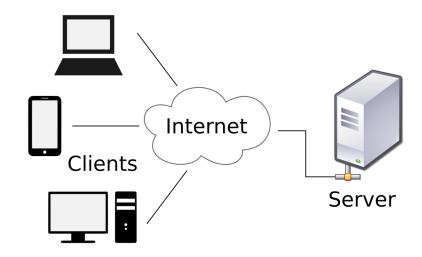


Task 2: Design the server component to perform load/save requests from the Data Access layer at the client side. Describe the protocol.

Server Side

The client side needs to load and save data to a remote server component.

I am running an instance of a SQLite server locally on my machine. The client makes requests to the server, and the server responds in a way that I can define. For example, if I request to view the purchase history of a specific customer by passing a customerID to the server, the server will return results only for that customer.



Implementation

Task 3: Implement the system.

GitHub Website

https://github.com/meghna-dash https://meghnadash.design

Task 4: Test the system with each use case.

Testing

Manger: Add+Update Product

https://www.loom.com/share/4006b2d

145a845829c68952602ca28b8

Cashier: Add+Update Purchase

https://www.loom.com/share/4006b2d

145a845829c68952602ca28b8

Customer: Add+Update Purchase

https://www.loom.com/share/4006b2d

<u>145a845829c68952602ca28b8</u>

Admin: Add a New User

https://www.loom.com/share/4006b2d

145a845829c68952602ca28b8

Task 4: Test the system with each use case.

Testing

User: Change Password and Name

https://www.loom.com/share/4006b2d

145a845829c68952602ca28b8

Admin: Update the Type of User

https://www.loom.com/share/4006b2d 145a845829c68952602ca28b8 Manger: View a Summary Report

https://www.loom.com/share/4006b2d 145a845829c68952602ca28b8

Customer: View Purchase History

https://www.loom.com/share/4006b2d 145a845829c68952602ca28b8

Thank you!