Merchant Monetary System

CS-262 Design Document



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Project Description

The system is designed for a company that provides logistics (delivery of products to its client), product management (crud operations), and effective communication with their worker, clients, and vendors.

The company has its office, warehouse, and rider. It has a different contract with multiple firms to take the shipment from the vendors and store it in dedicated warehouses. The rider will take orders from the shopkeeper. Their order is received at the office, and the office will create the feasibility report according to their shopkeepers' needs and instructions generated for their warehouse manager to fulfill their order. The area-specific rider will receive an email about their order. The office will send a confirmation email to their shopkeeper.

There are a total of four actors in the system and two stakeholders. Their titles and roles are:

- **CEO:** The company's owner manages all the operations.
- Employee: They are assistants to CEO to help in company operations.
- Warehouse Manager: Received the instructions from the employee and ready the shipment for the rider, and managed other expenses.
- Rider: They take orders from different shopkeepers and deliver the product according to pre-subscribed routes defined by the system.

The stakeholder is:

- Shopkeepers: Getting the goods and services from the company.
- Vendor: The vendor will provide the products to the company.

This system is designed for one company and one CEO. CEO will be provided with already defined credentials. The CEO is responsible for creating accounts for all others actors. The CEO will provide a credential to the actors, and they will be able to update their credentials.

The first dedicated dashboard for the CEO, where they monitor all operations. The operations manage their workers, products, and expenses and send emails. The CEO is the only person in the system with access to all operations. CEO analyzes company operations, including the performance of their workers and inventory. The system will present the company expenditure report.

The second dashboard is for office employees. They have access to manage emails, shopkeepers' orders, vendors' shipments, and company expenses. The company's expenses are the CEO, rider, and warehouse salaries. The system will present the report of payment to the vendor and shopkeeper. An employee will enter all the shipments that the company receives. They add product identifiers.

The third dashboard is for the warehouse manager, who receives feasibility reports of office employees and prepares the order for the rider. The warehouse manager must record the labor used in preparing the order. It could provide the miscellaneous expenses of the warehouse, like electricity costs, etc. They can view the product and make suitable changes according to the requirements.

The fourth dashboard is for a rider, which is basically the communicator between the company and the shopkeeper. The rider is responsible for taking orders from the shopkeeper. Enter order details into the system. The riders will check the current orders assigned to them by the company. They will pick up the shipment from the warehouse and delivery them to the shopkeeper. The system will present the routes to the destination with the order detail. The rider received a specific amount of fuel to perform the operations. The prescribed fuel is calculated according to the formula. They can see all the products. The product will be sorted in any order. Search for a specific product from a wide range of available products. The system will deploy different sharp algorithms to access the desired date orders quickly. Able to place the order and view the detail of the order as well.

The system will present the report to the CEO according to the performance of their workers, expenditures, sales and profit, salaries, inventory report, riders' performance, shopkeeper and vendor payment, workers' report, individual warehouse report, and miscellaneous expenses. Like how many products are received in the warehouse, how many products are left, how many products are delivered to company clients, how many riders have done shipments, which rider performs most shipments, and which rider needs

to perform better. It also includes how many orders a shopkeeper placed and whether the company received the payment.

The email notification mechanism is embedded in the system, which helps the company communicate within and outside with other vendors and shop-keepers. After the rider has confirmed the order, the system will send an email to the company. The company will send the order details to the warehouse manager to prepare the shipment for the rider. The rider also received the email for the delivery of the order. The employee emails the CEO for any need of assistance with an issue. The warehouse manager and rider also mail to the company office for any assistance. In external communication, the client will receive a confirmation email from the system about their order. They also take assistance from the company with any issue.

All the data is stored in an effective data structure to extract the data according to the need of the system actor and stakeholder.

Project Features

- 1. CEO is able to manage employees, warehouse manager, rider, and shop-keeper.
- 2. CEO and Employee manage product-related operations.
- 3. CEO will be able to analyze company operations.
- 4. Warehouse manager readies the shipment for the rider.
- 5. Rider delivered the shipment to their shopkeeper.
- 6. Riders are able to select the shortest route to reach the destination.
- 7. One user is able to notify other users through email.
- 8. Riders are able to view products and place an order.
- 9. System presents different reports that will be generated.

Technology Stack

The requirement is to design, develop and test the system in a desktop application. The essential system tracks the following language and an Integrated development environment.

Language	C # (.net framework 4.8)
IDEs	Microsoft Visual Studio 2022

Project Actors

There are a total of four actors in the system and two stakeholders. Their titles and roles are:

- **CEO:** The company's owner manages all the operations.
- **Employee:** They are assistants to CEO to help in company operations.
- Warehouse Manager: Received the instructions from the employee and ready the shipment for the rider, and managed other expenses.
- Rider: They take orders from different shopkeepers and deliver the product according to pre-subscribed routes defined by the system.

The stakeholder is:

- Shopkeepers: Getting the goods and services from the company.
- Vendor: The vendor will provide the products to the company.

Use Cases

5.1 Use Case 1:Log In

Use Case ID	U01
Name	Login
Actor	CEO, Employee, Rider, Warehouse Manager
Description	The login screen will be presented. The actor will select theor role and enter their username and password. And click on the login button. The system will check for its validity. The system will present the respective dashboard.
Pre-Condition	The respective actor will initiate the system, and the login in form is presented.
Flow	Main Success Scenario (or Basic Flow): 1. Actor is ready to take identifiers. 2. Actor selects his/her role from the given list. 3. Actor enters his/her username. 4. Actor enters his/her password. 5. Actor clicks on the login button. Extensions (or Alternative Flows): *a. If forgot password button is clicked 1. U02 will initiate

	*b. If the exit button is clicked
	1. System will close
	2a. If the actor doesn't select his/her role.
	1. Error Signal will be present.
	3a. If the actor doesn't enter his/her username.
	1. Error Signal will be present.
	4a. If the actor doesn't enter his/her password.
Flow	1. Error Signal will be present.
	5a. if the selected role doesn't exist with existing data
	1. Error Signal will be present.
	5b. if the entered username doesn't exist with existing data
	1. Error Signal will be present.
	5c. if the entered password doesn't exist with existing data
	1. Error Signal will be present.
Post-Condition	Respective Dashboard will be presented

5.2 Use Case 2:Forgot Password

Use Case ID	U02
Name	Forgot Password
Actor	CEO, Employee, Rider, Warehouse Manager
Description	Already registered users can change their password. The actor se-
	lects their role and enters his username and password. Then the
	actor confirms their password and clicks on Update Button; their
	password will be changed.
Pre-Condition	User must be registered in the system. Forgot Password screen is
	presented.

	Main Success Scenario (or Basic Flow):
	1. Actor is ready to enter the identifiers.
	2. Actor selects his/her role from the given list.
Flore	3. Actor enters his/her username.
Flow	4. Actor enters his/her password.
	5. Actor confirms his/her password.
	6. Actor clicks on the Update button.
	Extensions (or Alternative Flows): *a. If forgot password button is clicked
	1. U02 will initiate
	*b. If the reset button is clicked
	1. All fields will get cleared.
	2a. If the actor doesn't select his/her role.
	1. Error Signal will be presented.
	3a. If the actor doesn't enter his/her username.
	1. Error Signal will be present.
	4a. If the actor doesn't enter his/her password.
	1. Error Signal will be present.
	5a. if the selected role doesn't exist with in existing data
	1. Error Signal will be present.
	5b. if the entered username doesn't exist with in existing data
	1. Error Signal will be present.

	5c. if the entered password doesn't exist with in existing data
	1. Error Signal will be present.
Flow	5d. if the password doesn't match the password that the user confirmed
	1. Error Signal will be present.
Post-Condition	Actor's Password Updated

5.3 Use Case 3:Detail of Accounts for CEO

Use Case ID	U04
Name	Detail of Account for CEO
Actor	CEO
Description	CEO can view the details of each user who have registered themselves on this system. CEO can filter out users with certain designations and certain attributes and can apply multiple filters to search out specific users and their data. CEO can delete as well as edit users.
Pre-Condition	Detail of Accounts Screen is presented.
Flow	 Main Scenario: CEO selects the designation from the given list. CEO selects the attribute from the given list. CEO could search the data from the identifier. CEO selects the filters from the given list. CEO clicks on the Go button. CEO selects the data(any row shown in the grid)from the grid. CEO clicks on the Edit button, and a new Edit user screen opens. CEO clicks on the Delete button. CEO clicks on the Close button.

Extensions (or Alternative Flows):

- 1. If CEO did not select any designation from the drop-down.
 - 1. Error Signal will be present.
- 2. If CEO did not select any attribute from the drop-down.
 - 1. Error Signal will be present.
- 3a. If CEO did not select any designation and entered the data in the identifier to search.
 - 1. The searched data will show from the first attribute.
- 3b. If CEO did not select any Attribute and entered the data in the identifier to search.
 - 1. The searched data will show from the first attribute.
- 3c. If CEO did not select any designation and Attribute and entered the data in the identifier to search.
 - 1. The searched data will show from the first attribute.
- 4a. If CEO did not select any Filter from the given list
 - 1. No operation of the filter is applied to the data.
- 4b. If CEO did not select any Attribute from the given list and select any filter
 - 1. No operation of the filter is applied to the data.
- 5a. If CEO did not select any Attribute, Designation, or filter from the given list and not enter the data to be searched in identifier
 - 1. Error Message box will be shown.
- 6. If CEO did not select any data from the grid list.
 - 1. No operation is performed.

Flow	 7. If CEO did not select any data from the grid list and clicked the edit button. 1. No operation I performed on any data list in the grid. 2. Message Box will be shown. 8. If CEO did not select any data from the grid list and clicked the delete button.
	 No operation I performed on any data list in the grid. Message Box will be shown.
Post-Condition	Data from selected row will be deleted or updated

5.4 Use Case 4:Detail of Accounts for Employee

Use Case ID	U04
Name	Detail of Account for Employee
Actor	Employee
Description	Employee can view the details of each user who have registered themselves on this system. Employee can filter out users with certain designations and certain attributes and can apply multiple filters to search out specific users and their data. Employee can delete as well as edit users.
Pre-Condition	Detail of Accounts Screen is presented.
Flow	 Main Scenario: Employee selects the designation from the given list. Employee selects the attribute from the given list. Employee could search the data from the identifier. Employee selects the filters from the given list. Employee clicks on the Go button. Employee selects the data(any row shown in the grid)from the grid. Employee clicks on the Edit button, and a new Edit user screen opens. Employee clicks on the Delete button. Employee clicks on the Close button.

Extensions (or Alternative Flows):

- 1. If Employee did not select any designation from the drop-down.
 - 1. Error Signal will be present.
- 2. If Employee did not select any attribute from the drop-down.
 - 1. Error Signal will be present.
- 3a. If Employee did not select any designation and entered the data in the identifier to search.
 - 1. The searched data will show from the first attribute.
- 3b. If Employee did not select any Attribute and entered the data in the identifier to search.
 - 1. The searched data will show from the first attribute.
- 3c. If Employee did not select any designation and Attribute and entered the data in the identifier to search.
 - 1. The searched data will show from the first attribute.
- 4a. If Employee did not select any Filter from the given list
 - 1. No operation of the filter is applied to the data.
- 4b. If Employee did not select any Attribute from the given list and select any filter
 - 1. No operation of the filter is applied to the data.
- 5a. If Employee did not select any Attribute, Designation, or filter from the given list and not enter the data to be searched in identifier
 - 1. Error Message box will be shown.
- 6. If Employee did not select any data from the grid list.
 - 1. No operation is performed.

	7. If Employee did not select any data from the grid list and clicked the edit button.
	 No operation I performed on any data list in the grid. Message Box will be shown.
Flow	8. If Employee did not select any data from the grid list and clicked the delete button.
	1. No operation I performed on any data list in the grid.
	2. Message Box will be shown.
Post-Condition	Data from selected row will be deleted and a dashboard will be presented

5.5 Use Case 5:SignUp

Use Case ID	U05
Name	SignUp
Actor	CEO, Employee
	Actor select the designation of the worker from the given list, name,
Description	username, password, CNIC number, gender, contact number, email
	address, and home address.
Pre-Condition	The system presents the SignUp screen
	Main Success Scenario (or Basic Flow):
	1. Actor is ready to create the identifiers.
	2. Actor selects the designation of the worker from the given list to change their role.
Flow	3. Actor changes worker name.
	4. Actor changes worker's password.
	5. Actor confirms the entered password.
	6. Actor changes worker's CNIC number.

		2. Actor changes worker contact number.
Flow	3. Actor changes worker's email address.	
	Flow	4. Actor changes worker's home address.
		5. Actor clicks on the create account button, and the system sends an email.
		Extensions (or Alternative Flows): *a. If the clear button is clicked
		1. All the identifiers data remove from the screen.
		*b. If the close button is clicked
		1. The presented screen will be closed
		3a. If the actor doesn't enter the worker's name
		1. Error Signal will be present.
		3b. If the actor enters an invalid worker's name
		1. Error Signal will be present.
		4a. If the actor doesn't enter the worker's username
		1. Error Signal will be present.
		5a. If the actor doesn't enter the worker's password
		1. Error Signal will be present.
		5b. If the actor enters an invalid worker's password
		1. Error Signal will be present.

1. Actor changes worker gender.

Flow	6a. If the actor enters the worker's password does not match the previously entered password
	1. Error Signal will be present.
	7a. If the actor doesn't enter the worker's CNIC number
	1. Error Signal will be present.
	7b. If the actor enters invalid the worker's CNIC number
	1. Error Signal will be present.
	9a. If the actor doesn't enter the worker's contact number
	1. Error Signal will be present.
	9b. If the actor enters invalid the worker's contact number
	1. Error Signal will be present.
	10a. If the actor doesn't enter the worker's email address
	1. Error Signal will be present.
	10b. If the actor enters invalid the worker's email address
	1. Error Signal will be present.
	11a. If the actor doesn't enter the worker's home address
	1. Error Signal will be present.
Post-Condition	The account information is stored in the database, and the screen will be closed.

5.6 Use Case 6: Update Account Information by CEO

Use Case ID	U06
Name	Update Account Information by CEO
Actor	CEO
Description	CEO could change the designation of their worker from the given list of designation, name, username, password, CNIC number, gender, contact number, email address, and home address.
Pre-Condition	The Updated Account Information screen is presented. The registered account information of the actors in the system will be presented in the identifiers.
	Main Success Scenario (or Basic Flow):
	1. CEO is ready to update the identifiers.
	2. CEO selects the designation of the worker from the given list to change their role.
	3. CEO changes their or worker's name.
	4. CEO changes their or worker's username.
	5. CEO changes their or worker's password.
Flow	6. CEO confirms the entered password.
	7. CEO changes their or worker's CNIC number.
	8. CEO changes their or worker's gender.
	9. CEO changes their or worker's contact number.
	10. CEO changes their or worker's email address.
	11. CEO changes their or worker's home address.
	12. CEO clicked on the update account button and the system sends an email.
	Extensions (or Alternative Flows): *a. If the clear button is clicked
	1. All the identifiers data remove from the screen.
	*b. If the close button is clicked 18
	1. The presented screen will be closed

Flow	3a. If the CEO doesn't enter their or the worker's name
	1. Error Signal will be present.
	3b. If the CEO enters invalid their or the worker's name
	1. Error Signal will be present.
	4a. If the CEO doesn't enter their or the worker's username
	1. Error Signal will be present.
	5a. If the CEO doesn't enter their or the worker's password
	1. Error Signal will be present.
	5b. If the CEO enters invalid their or the worker's password
	1. Error Signal will be present.
	6a. If the CEO enter their or the worker's password does not match the previously entered password
	1. Error Signal will be present.
	7a. If the CEO doesn't enter their or the worker's CNIC number
	1. Error Signal will be present.
	7b. If the CEO enters invalid their or the worker's CNIC number
	1. Error Signal will be present.
	9a. If the CEO doesn't enter their or the worker's contact number
	1. Error Signal will be present.
	9b. If the CEO enters invalid their or the worker's contact number
	1. Error Signal will be present.

Flow	10a. If the CEO doesn't enter their or the worker's email address
	1. Error Signal will be present.
	10b. If the CEO enters invalid their or the worker's email address
	1. Error Signal will be present.
	11a. If the CEO doesn't enter their or the worker's home address
	1. Error Signal will be present.
	The account information is updated in the database, and the screen
Post-Condition	will be closed.

5.7 Use Case 7: Update Account Information by Employee

Use Case ID	U07
Name	Update Account Information by Employee
Actor	Employee
	employee could change the designation of the company workers (ex-
Description	cept there and the CEO) from the given list of designation, name,
Description	username, password, CNIC number, gender, contact number, email
	address, and home address.
	The Updated Account Information screen is presented. The regis-
Pre-Condition	tered account information of the actors in the system will be pre-
	sented in the identifiers.
	Main Success Scenario (or Basic Flow):
Flow	 Employee is ready to update the identifiers. Employee selects the designation of the worker from the given
	list to change their role.
	not to change their rote.

	1. Employee changes worker name.
	2. Employee changes worker's password.
	3. Employee confirms the entered password.
	4. Employee changes worker's CNIC number.
TDI.	5. Employee changes worker gender.
Flow	6. Employee changes worker contact number.
	7. Employee changes worker's email address.
	8. Employee changes worker's home address.
	9. Employee clicked on the update account button and the system sends an email.
	Extensions (or Alternative Flows): *a. If the clear button is clicked
	1. All the identifiers data remove from the screen.
	*b. If the close button is clicked
	1. The presented screen will be closed
	3a. If the employee doesn't enter the worker's name
	1. Error Signal will be present.
	3b. If the employee enters an invalid worker's name
	1. Error Signal will be present.

Flow	5a. If the employee doesn't enter the worker's password
	1. Error Signal will be present.
	5b. If the employee enters an invalid worker's password
	1. Error Signal will be present.
	6a. If the employee enters the worker's password does not match the previously entered password
	1. Error Signal will be present.
	7a. If the employee doesn't enter the worker's CNIC number
	1. Error Signal will be present.
	7b. If the employee enters invalid the worker's CNIC number
	1. Error Signal will be present.
	9a. If the employee doesn't enter the worker's contact number
	1. Error Signal will be present.
	9b. If the employee enters invalid the worker's contact number
	1. Error Signal will be present.
	10a. If the employee doesn't enter the worker's email address
	1. Error Signal will be present.
	10b. If the employee enters invalid the worker's email address
	1. Error Signal will be present.
	11a. If the employee doesn't enter the worker's home address
	1. Error Signal will be present.
Post-Condition	The account information is updated in the database, and the screen will be closed.

5.8 Use Case 6:Add Products

Use Case ID	U06
Name	Add Products
Actor	CEO, Employee
Description	These two concerned actors will add products in for their ware-houses. They have to provide all details of the bought products and all the products will get entered in the system records.
Pre-Condition	Click on Add product Button on CEO or Employee Dashboard
Flow	Main Scenario: 1. Add Product Form will be displayed 2. It will ask the users for all details of products 3. Click on Add Button to add product details Alternate Flow: • If Reset is Clicked 1. All text and input areas will get clear 2. Control will remain on the same page
	 If Close is Clicked 1. Form will be closed 2. CEO and Employee Dashboard will again get displayed If not necessary conditions are provided 1. Error Message will be displayed with a message
Post-Condition	Product will be added to system and will be sent to the selected Warehouse

5.9 Use Case 7(Products Details)

Use Case ID	U07
Name	Products Details
Actor	CEO, Employee
Description	This form allows the respective users to view products and perform certain operations on data. Certain operations include search with filters and edit and delete options (only for CEO) as well.
UI Interface in JUSTINMIND	Product Detail Arribute 1: Name
Pre-Condition	Click on Option on Top Left Corner Select products details

	Main Scenario:
Flow	1. On Clicking product details, product forms will be displayed
	2. Select Row from the data and click delete to delete and edit to edit selected item
	Alternate Flow:
	• If text filters are selected and word text area is empty
	1. An Alert message of Empty input is entered
	• If delete button is pressed without selecting any row data
	1. Exception will be handled and an exception error will be displayed to the user
	2. User will remain on the same page
	• If Close Button is Clicked
	1. CEO or Employee Dashboard will again open
	• If Clear Button is Clicked
	1. All filters will get cleared
Post-Condition	Selected Row Data will get updated or deleted

5.10 Use Case 8(Update Products)

Use Case ID	008
Name	Update Products
Actor	CEO, Employee
Description	This form allows the respective users to edit products. Select the product from the data. Click Update in the I09. This form will get open. All previous product details will also be there in its respective fields. Modify Details according to your need.
UI Interface in JUSTINMIND	Name:
Pre-Condition	Click on Update Button in U09
Flow	 Main Scenario: Clicking on Update Button will open this screen Modify Details and Fill all areas Click Update Button Alternate Flow: If user don't provide all required information Alert Message will be displayed. System remain to same page Clicking Reset Clear the fields Clicking Close Button Close the Form Return to Products Details UI
Post-Condition	Selected Data (Product) will get modified

5.11 Use Case 9(Add Rider)

Use Case ID	U09
Name	Add Rider
Actor	CEO, Employee
Description	Irrespective of self-signup by rider himself, CEO and Employee can add rider details into their system. They have to provide his personal information and the information related to his vehicle. Rider himself will tell his details to Employee or his details will be provided to the CEO.
UI Interface in JUSTINMIND	Create Account Designation: Rider Gender: O Male O Female Name: Conatct Number: Email Address: Password: Home Address: Confirm Password: CNIC: Vehicle Type: Vehicle Capacity: Close Clear Add
Pre-Condition	Click on Add Rider from CEO or Employee Dashboard
Flow	Main Scenario: 1. Designation will be selected automatically 2. Provide All Necessary personal information 3. Also Add Information Related to vehicle 4. Click on Add Button
Post-Condition	Rider Information will be Added to your system

5.12 Use Case 10(Update Rider)

Use Case ID	U10
Name	Update Rider
Actor	CEO, Employee, Rider
Description	Selecting Riders Details and then Clicking Update button after selecting row, will allow you to modify selected Riders Details. Change your required fields and Save the information
UI Interface in JUSTINMIND	Update Account Designation: Rider Gender: Male Female Name: Conatct Number: Email Address: Home Address: Password: Home Address: Confirm Password: Confirm Password: Vehicle Type: Vehicle Capacity: Close Clear Update
Pre-Condition	Click on Update in Rider Details after selecting rider
Flow	Main Scenario: 1. Designation will be selected automatically 2. Provide All Necessary personal information 3. Also Add Information Related to vehicle 4. Click on Add Button Alternate Flow: • Clicking Close Button 1. Return to Riders Details
Post-Condition	Rider Information will be modified and will get save to your system

5.13 Use Case 11(Order Product)

Use Case ID	U11
Name	Order Product
Actor	Rider
Description	Rider will approach the shopkeepers, take orders from them, recommend them some products and handed over the order to Employee in the company. Shopkeeper can be shown the summary of products he asked to buy
UI Interface in JUSTINMIND	Order Product Category: Fashion Search: Sorted By: Pric. Rating 5 star Warranty Type: No. V Price Main - Maix Availability: In stock Quantity: Close Reset Buy Now Add to Cart Order Summery Street Number: Shopkeeper Name: City: Contact No: Area: EstimateDeliveryTime: Grand Total: 00000 PKR Close Delete Buy
Pre-Condition	Click on Order Product in the Rider Dashboard

	Main Scenario:
	1. At first all available products will be shown in the grid list
	2. Rider will ask shopkeeper for the order
	3. Rider will add the products by searching them and providing quantity
	4. Select the product and click Add to Cart
	5. After adding all the required products to cart, click Buy Now.
Flow	6. Order Summary Screen will open
	7. Provide Necessary Details and Click Buy
	Alternate Flow:
	Clicking Close Button
	1. Return to Riders Dashboard
	• Clicking the Reset will reset the Cart
Post-Condition	Employee will get notified and order will be added to the system

5.14 Use Case 12(Send Email)

Use Case ID	U12
Name	Send Email
Actor	Rider, CEO, Warehouse Manager, Employee
Description	To communicate with each other and notify about each activity, each user can contact with one another through email.
UI Interface in JUSTINMIND	To: From: Rider Subject: Close Reset Send
Pre-Condition	You must be a user of this system before
Flow	 Main Scenario: Click on Send Email from your dashboard Type To Type From Subject Email Body Click Send Alternate Flow: Clicking Close Button Return to Respective Dashboard Clicking the Reset will reset the Email
Post-Condition	Email will be send to the person specified in To Section

5.15 Use Case 13(New Warehouse)

Use Case ID	U13
Name	New Warehouse
Actor	CEO, Employee
Description	CEO and Employee Dashboard have an option to add a new ware- house for a company. Provide Necessary details like warehouse volume, capacity, etc and manager name as well.
UI Interface in JUSTINMIND	Name: Street No.: City: Total Space: Area: Manager Name: Saleem Close Clear Add
Pre-Condition	Click on Add Warehouse in Employee and CEO Dashboard
Flow	 Main Scenario: New Warehouse UI screen will be displayed Provide details of a new warehouse Assign a New manager Click on Add Alternate Flow: Clicking Close Button Return to Respective Dashboard Clicking the Clear will reset the fields
Post-Condition	A new Warehouse will be added to the office

5.16 Use Case 14(View/Delete Warehouse)

Use Case ID	U14	
Name	View/Delete Warehouse	
Actor	CEO, Employee	
Description	This form allows you to view all the warehouse with their details. Only CEO has the authority to delete warehouses. The concerned user can also filter out the warehouse details.	
UI Interface in JUSTINMIND	Warehouse Detail Arribute 1: Name	
Pre-Condition	Click on Option in CEO or Employee Dashboard Click Warehouse details	
Flow	 Main Scenario: Warehouse Details UI will appear View Details For deletion, select data row and click delete from below. Alternate Flow: Clicking Edit Button Will open a Edit Warehouse Form Clicking Clear Button Will reset the filters Will reset the filters 	
Post-Condition	Detailed Warehouse data will be displayed or deletion occurs if any	

5.17 Use Case 15(Edit Warehouse)

Use Case ID	019	
Name	Edit Warehouse	
Actor	CEO, Employee	
Description	Selecting Warehouse Details and then Clicking Update button after selecting row, will allow you to modify selected Warehouse Details. Change your required fields and Save the information	
UI Interface in JUSTINMIND	Update Warehouse Name :	
Pre-Condition	Click on Update in Warehouse details after selecting data	
Flow	Main Scenario: 1. Update Warehouse UI will show 2. Modify already filled fields with your requirements 3. Click Update Alternate Flow: • Clicking Clear Button 1. Clear All fields • Clicking Back Button 1. Back to Previous Warehouse Details	
Post-Condition	Selected Warehouse details will be modified	

5.18 Use Case 16(Order Status)

Use Case ID	U16	
Name	Order Status	
Actor	CEO, Employee, Shopkeeper, Warehouse Manager	
Description	From the Order Details, you are able to view the status of the order whether it is pending, in progress or completed/delivered. This will allow the concerned user to track progress details about specific order.	
UI Interface in JUSTINMIND	Order Status Order Status Order Type:	
Pre-Condition	Order Details Form should open	
Flow Post-Condition	Main Scenario: 1. From Orders List Click on Check Status. 2. A new Form Order Status will open	
1 OSt-Condition	You can now track the progress of your order	

5.19 Use Case 17(Route Finder)

Use Case ID	U17	
Name	Route Finder	
Actor	Rider	
Description	After the successful acceptance of certain order from warehouse, now rider has to select the best and the shortest path or route to the destination so his miscellaneous expenses (e.g., fuel) should be less. This allows him to select the shortest route. But he has been shown all possible routes.	
UI Interface in JUSTINMIND	Route Find Source Address:- Street No.: 50	
Pre-Condition	Select Find Route from Rider's Dashboard	
Flow	Main Scenario: 1. Route Find Form will open 2. Fill Source Address 3. Fill Destination Address 4. Select Find	
Post-Condition	You will be shown all the possible routes from source to destination	

5.20 Use Case 18(Add Shopkeeper)

Add Shopkeeper Actor Rider, CEO, Employee Rider, CEO, Employee Rider will approach the shopkeeper. If shopkeeper is not registered with the system before, the rider will register him first if the shopkeeper orders something. Second scenario may be the CEO and Employee both have the authority to add shopkeeper details what the rider would give them Shopkeeper Record Shopkeeper Re	Use Case ID	U18	
Rider will approach the shopkeeper. If shopkeeper is not registered with the system before, the rider will register him first if the shopkeeper orders something. Second scenario may be the CEO and Employee both have the authority to add shopkeeper details what the rider would give them Companion	Name	Add Shopkeeper	
with the system before, the rider will register him first if the shop-keeper orders something. Second scenario may be the CEO and Employee both have the authority to add shopkeeper details what the rider would give them Shopkeeper Record	Actor	1 1	
Shopkeeper Record Condect Conde	Description	Rider will approach the shopkeeper. If shopkeeper is not registered with the system before, the rider will register him first if the shopkeeper orders something. Second scenario may be the CEO and Employee both have the authority to add shopkeeper details what	
Main Scenario: 1. Select Appropriate Designation 2. Fill all necessary details with the shop details as well 3. Click Add button Alternate Flow: • Clicking Clear Button 1. Will clear all the fields you have filled • Clicking Close Button 1. Will happen to return to the respective/corresponding dashboard • If all necessary field are not filled 1. Alert Message will occur		ShopKeeper Record Designation: Rider Gender: Male Female Name: Conatct Number: Email Address: Shope Name: Rating: D Number: Street No.: D Number: Shop Address: Shop Add	
 Select Appropriate Designation Fill all necessary details with the shop details as well Click Add button Alternate Flow: Clicking Clear Button Will clear all the fields you have filled Clicking Close Button Will happen to return to the respective/corresponding dashboard If all necessary field are not filled Alert Message will occur 	Pre-Condition	, , , , , , , , , , , , , , , , , , , ,	
	Flow	 Main Scenario: Select Appropriate Designation Fill all necessary details with the shop details as well Click Add button Alternate Flow: Clicking Clear Button Will clear all the fields you have filled Clicking Close Button Will happen to return to the respective/corresponding dashboard If all necessary field are not filled Alert Message will occur 	

5.21 Use Case 19(Add Payment)

Use Case ID	U19	
Name	Add Payment	
Actor	Rider, Employee, CEO	
Description	Rider will approach the shopkeeper. Took Payment from the shopkeeper and add it into the system.	
UI Interface in JUSTINMIND	Rider will approach the shopkeeper. Took Payment from the shopkeeper and add it into the system. Payement Shop Name: Kabir and Son's Deposit Amount: ReTypeDeposit Amount: Add Close Clear Add	
Pre-Condition	Select Add Payment from Rider's Dashboard(Shopkeeper Must be registered first)	

	Main Scenario:
	1. Payment Form will open
	2. Select Shop Name (it should be registered first)
	3. Add Deposit Amount and Confirm
	4. Click Add
	Alternate Flow:
	Clicking Clear Button
Flow	1. Will clear all the fields you have filled
	Clicking Close Button
	1. Will happen to return to the respective/corresponding dashboard
	• If deposit amount and Retype Deposit Amount are not same
	1. Error Message will occur
	2. System will return to the same page after clicking on OK button
Post-Condition	Payment will be accepted for the selected shopkeeper

5.22 Use Case 20(Withdraw Expenses)

Use Case ID	U20	
Name	Withdraw Expenses	
Actor	CEO	
Description		
UI Interface in JUSTINMIND	Expenses/Payment Payment Type: Vendor Payment Withdraw Amount: Retype Withdraw Amount: Close Clear Add	
Pre-Condition		

	Main Scenario:
	1. Payment Form will open
	2. Select Payment Type
	3. Type Withdraw Amount and Retype it in the next box
	4. Click Add
	Alternate Flow:
	Clicking Clear Button
Flow	1. Will clear all the fields you have filled
	Clicking Close Button
	1. Will happen to return to the respective/corresponding dashboard
	• If Withdraw amount and Retype Withdraw Amount are not same
	1. Error Message will occur
	2. System will return to the same page after clicking on OK button
Post-Condition	

5.23 Use Case 21(Create Account)

Use Case ID	U21	
Name	Create Account	
Actor	All	
Description	All actors can link with the system by creating account and register themselves for this system. Provide Necessary Information and you can dive into the system by logging into the system.	
UI Interface in JUSTINMIND	SignUp Designation: Employee Gender: O Male O Female Name: Conatct Number: Email Address: New Password: Email Address: Confirm Password: Confirm Password: CNIC: Clear Close Create Account	
Pre-Condition	System Will Initiate with this page	
Flow	Main Scenario: 1. Select Your Designation 2. Provide All Necessary Details 3. Click on Create Account	
Post-Condition	You are now the user of this system	

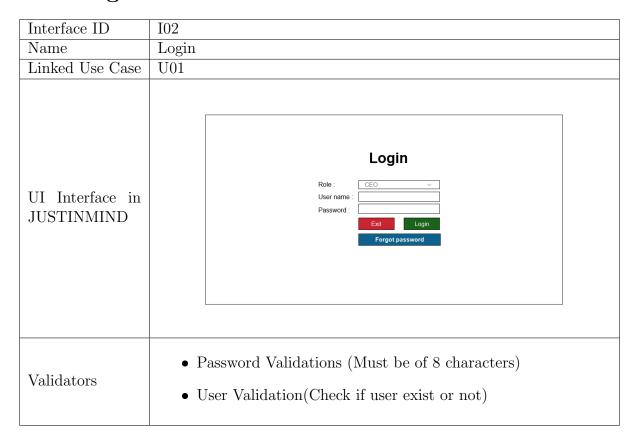
Chapter 6

Use Interfaces

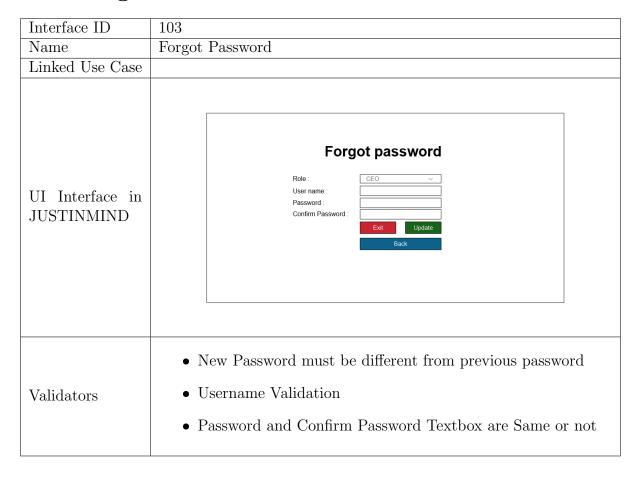
6.1 Intro

Interface ID	I01	
Name	Intro	
Linked Use Case	NULL	
UI Interface in JUSTINMIND		Merchant Monetary System Believe,Manage,Serve

6.2 Login



6.3 Forgot Password



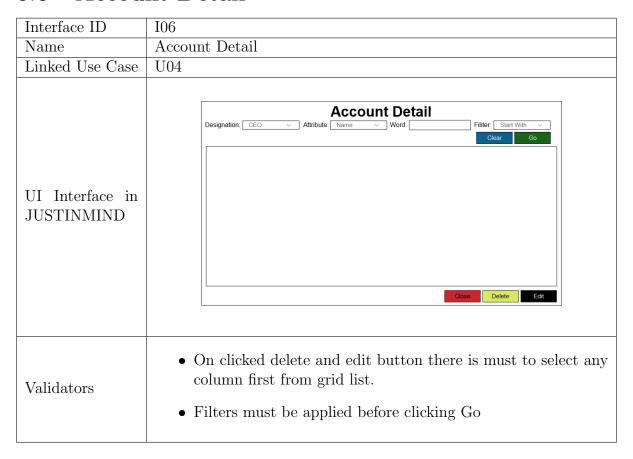
6.4 Create Account

Interface ID	104	
Name	Create Account	
Linked Use Case	U21	
UI Interface in JUSTINMIND	SignUp Designation: Employee Gender: O Male O Female Name: Conatct Number: Email Address: New Password: Home Address: Confirm Password: CNIC: Clear Close Create Account	
Validators	 New Password and Confirmation password must be the same CNIC must be of 13 digits Contact Number must be of 11 digits All Information must be provided before account creation Email Validations 	

6.5 Update Information

Interface ID	I05	
Name	Update Information	
Linked Use Case		
UI Interface in JUSTINMIND	Update Information Designation: Employee	
Validators	 New Password and Confirmation password must be the same CNIC must be of 13 digits Contact Number must be of 11 digits All Information must be provided before account creation Email Validations 	

6.6 Account Detail



6.7 CEO Dashboard

Interface ID	I07
Name	CEO Dashboard
Linked Use Case	U03
UI Interface in JUSTINMIND	Option Rider Employee Product Email Warehouse Reports Help Add Rider Add Employee Add Product View Products Send Email Add Wharehouse Manager Report will be display here All right reserved with Merchant Monetary System Wednesday 23/11/2022 - 07:38:16: PM

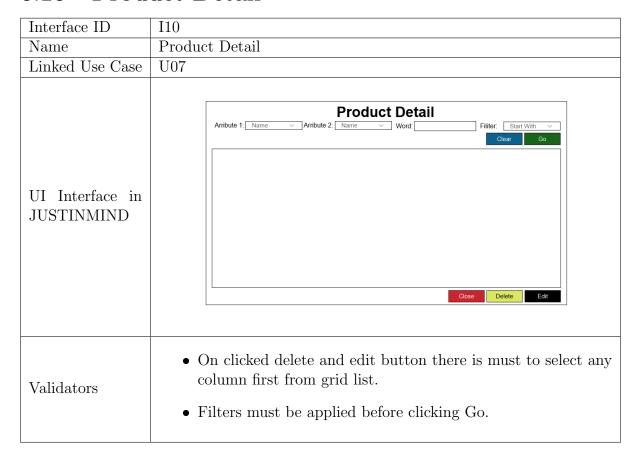
6.8 Add Product

Interface ID	108	
Name	Add Product	
Linked Use Case	U06	
UI Interface in JUSTINMIND	Name :	
Validators	 Product Name must contain only Digits and alphabets. Cost Price must not be negative. The date must be positive. And not previous than current. Quantity must be positive. And not in decimals. Rating must be positive and integer. SKU-ID must be positive. Weight and Volume must be in integers and decimals and positive. IN Stock check box must be filled. 	

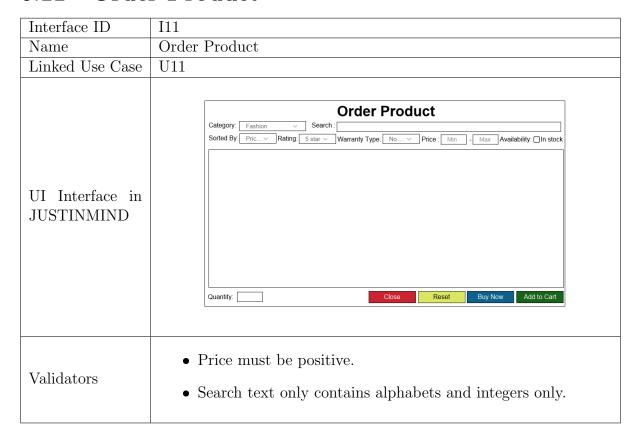
6.9 Update Product

Interface ID	I09		
Name	Update Product		
Linked Use Case	U08		
UI Interface in JUSTINMIND	Name:		
Validators	 Product Name must contain only Digits and alphabets. Cost Price must not be negative. The date must be positive. And not previous than current. Quantity must be positive. And not in decimals. Rating must be positive and integer. SKU-ID must be positive. Weight and Volume must be in integers and decimals and positive. IN Stock check box must be filled. 		

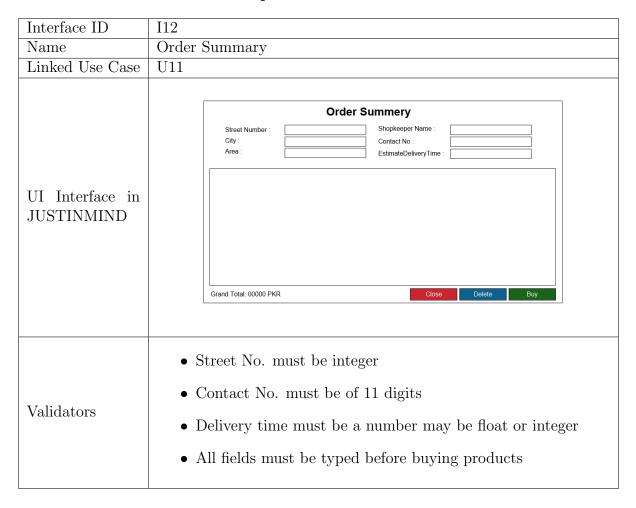
6.10 Product Detail



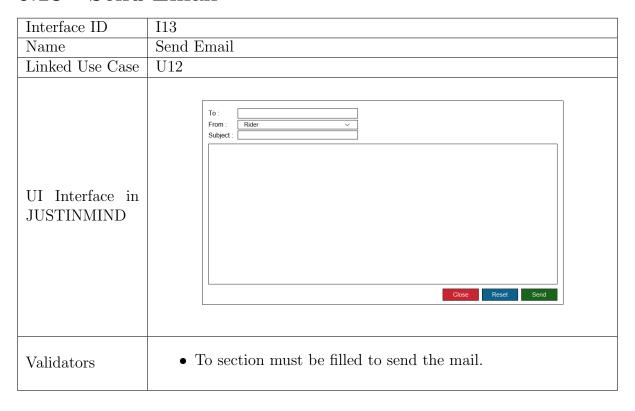
6.11 Order Product



6.12 Order Summary



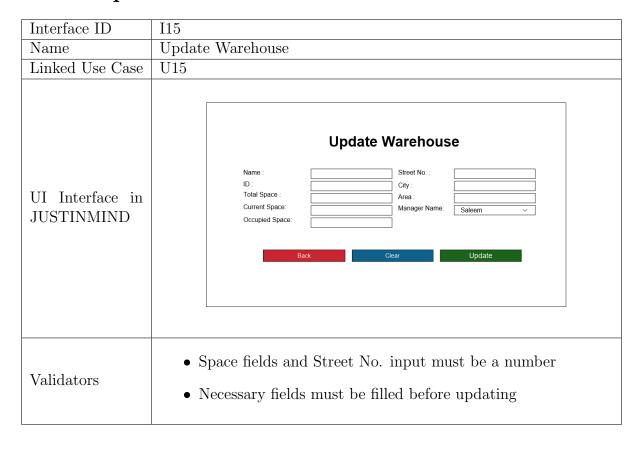
6.13 Send Email



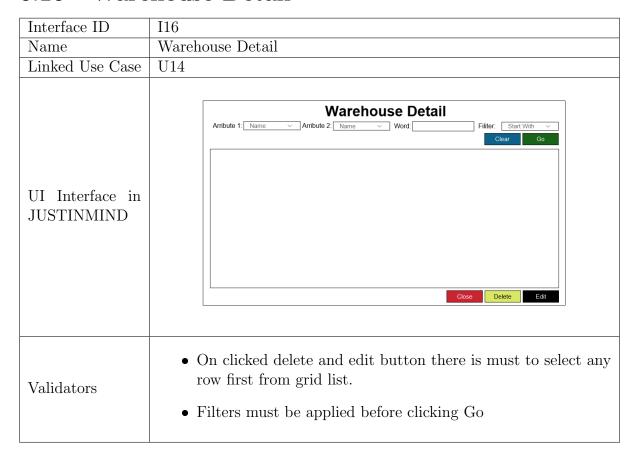
6.14 New Warehouse



6.15 Update Warehouse



6.16 Warehouse Detail



6.17 Warehouse Manager Dashboard

Interface ID	I17
Name	Warehouse Manager Dashboard
Linked Use Case	NILL
UI Interface in JUSTINMIND	Option Product Email Warehouse Help Order Status Update Product View Products Send Email View Email Report will be display here All right reserved with Merchant Monetary System Wednesday 24/11/2022 - 09:42:16; PM

6.18 Employee Dashboard

Interface ID	I18
Name	Employee Dashboard
Linked Use Case	NILL
UI Interface in JUSTINMIND	Option Rider Employee Product Email Warehouse Reports Help Add Rider Add Product View Products ShopKeeper Send Email Add Wharehouse Manager Report will be display here All right reserved with Merchant Monetary System Wednesday 23/11/2022 - 07:38:16: PM

6.19 Rider Dashboard

Interface ID	I19					
Name	Rider I	Dashboard				
Linked Use Case	NILL					
UI Interface in JUSTINMIND		Show Product Email Show Products Add Shopker Vehicle Number	Warehouse Help September Send En	Current Fuel	t Vehicle ID	

6.20 Add Rider

Interface ID	I20	
Name		
Linked Use Case	U09	
UI Interface in JUSTINMIND	Create Account Designation: Rider Gender: Male Female Name: Conatct Number: Email Address: Home Address: Confirm Password: Confirm Password: Vehicle Type: Vehicle Capacity: Close Clear Add	
Validators	 Name Text Box must contain only alphabets. The new Password and confirmation password CNIC number must be of 13 digits. Contact number must be of 11 digits. Any text box value will not be added as negative. All fields must be filled Email validation 	

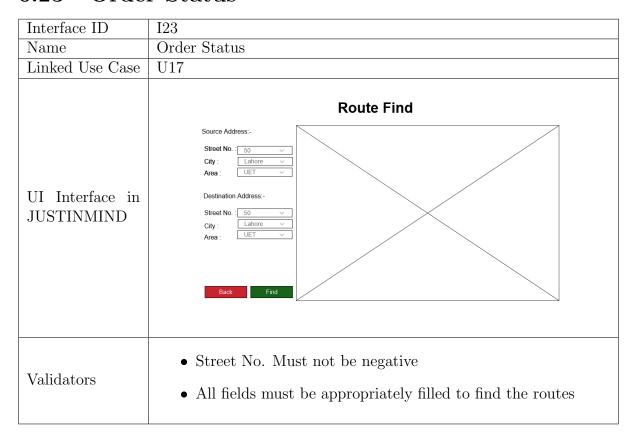
6.21 Update Rider

Interface ID	I21		
Name	Update Rider		
Linked Use Case	U10		
UI Interface in JUSTINMIND	Update Account Designation: Rider Gender: O Male O Female Name: Conatct Number: Email Address: Password: Email Address: Home Address: Confirm Password: Confirm Password: Vehicle Type: Vehicle Capacity: Close Clear Update		
Validators	 Name Text Box must contain only alphabets. New Password must be different form last password The new Password and confirmation password CNIC number must be of 13 digits. Contact number must be of 11 digits. Any text box value will not be added as negative. All fields must be filled Email validation 		

6.22 Order Status

Interface ID	I22
Name	Order Status
Linked Use Case	U16
UI Interface in JUSTINMIND	Order Status Order Status Order Status Order Type:

6.23 Order Status



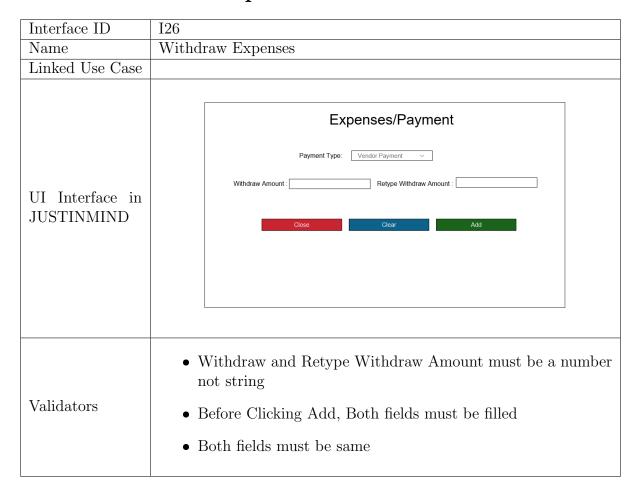
6.24 Shopkeeper Record

Interface ID	I24
Name	Shopkeeper Record
Linked Use Case	U18
UI Interface in JUSTINMIND	ShopKeeper Record Designation: Rider Gender: Male Female Conatct Number: Email Address: Rating: ID Number: Street No.: ID Number: Shop Address: Area: Clear Add
Validators	 Email Validation Contact Number Validation Street No. must be a non-negative number All necessary fields must be filled before clicking Add

6.25 Add Payment



6.26 Withdraw Expenses



User Interface Details

Inter-	Text	Drop	Passwor	d Table	Date	Buttons
face Id	Box	Down	Box	Table	Field	Duttons
101	0	0	0	0	0	0
102	1	1	1	0	0	3
103	1	1	2	0	0	3
104	5	1	2	0	0	3
105	5	1	2	0	0	3
106	1	3	0	1	0	5
107	0	0	0	1	0	0
108	13	1	0	0	0	3
109	13	0	0	0	0	3
110	1	3	0	1	0	5
111	4	4	0	1	0	4
112	6	0	0	1	0	3
113	2	1	0	0	0	3
114	8	1	0	0	0	3
115	8	1	0	0	0	3
116	1	3	0	1	0	5
117	0	0	0	1	0	0
118	0	0	0	1	0	0
119	0	0	1	0	0	0
120	8	1	2	0	0	3
121	8	1	2	0	0	3
122	8	0	0	0	0	1
123	0	6	0	0	0	2
124	10	1	0	0	0	3
125	2	1	0	0	0	3
126	2	1	0	0	0	3

Inter- face Id	Auto- Com- plete	Radio Button	Check Box	Menu	Text Area	Progress Bar
101	0	0	0	0	0	1
102	0	0	0	0	0	0
103	0	0	0	0	0	0
104	0	2	0	0	1	0
105	1	2	0	0	1	0
106	0	0	0	0	0	0
107	0	0	0	14	0	0
108	0	2	0	0	0	0
109	0	2	0	0	0	0
110	0	0	0	0	0	0
111	0	0	1	0	0	0
112	0	0	0	0	0	0
113	0	0	0	0	1	0
114	1	0	0	0	0	0
115	1	0	0	0	0	0
116	0	0	0	0	0	0
117	0	0	0	10	0	0
118	0	0	0	14	0	0
119	0	0	0	11	0	0
120	0	2	0	0	0	0
121	1	2	0	0	0	0
122	0	2	0	0	0	0
123	0	0	0	0	0	0
124	0	2	0	0	1	0
125	0	0	0	0	0	0
126	0	0	0	0	0	0

Classes

The classes which are used in the project are as under with there specific properties.

Class Name	Software/ Domain	Is Abstract (Yes/No)
CEO	Domain	No
Company	Domain	No
Office	Domain	No
WareHouse	Domain	No
User	Domain	No
Rider	Domain	No
Employee	Domain	No
WareHouseManager	Domain	No
ShopOwner	Domain	No
Shop	Domain	No
Ledger	Domain	No
Order	Domain	No
Product	Domain	No
Vehicle	Domain	No
Stack	Software	No
Queue	Software	No
Linked List	Software	No
Binary Search Tree	Software	No

Class Name	Is Singleton (Yes/No)	Is the class will has parametrized constructor(Yes/No)
CEO	Yes	Yes
Company	Yes	Yes
Office	Yes	Yes
WareHouse	No	Yes
User	No	Yes
Rider	No	Yes
Employee	No	Yes
WareHouse Manger	No	Yes
ShopOwner	No	Yes
Shop	No	Yes
Ledger	Yes	Yes
Order	No	Yes
Product	No	Yes
Vehicle	No	Yes
Stack	No	Yes
Queue	No	Yes
Linked List	No	Yes
Binary Search Tree	No	Yes

Object Oriented Features

9.1 Composition

In our Project there are 8 places where we use Composition

- Company Class has composition of Ledger Class
- Company Class has composition of Office Class
- Company Class has composition of Warehouse Class
- Company Class has composition of CEO Class
- Warehouse Class has composition of Warehouse Manager Class
- Rider Class has composition of Vehicle Class
- Office Class has composition of User Class (Employee, Rider)
- Shop Owner Class has composition of Shop Class

9.2 Inheritance

In our project inheritance is used in following places

- User inherits the class of CEO
- User inherits the class of Rider
- User inherits the class of Shopkeeper
- User inherits the class of Warehouse Manager

9.3 Multi-Level Inheritance

In our project Multilevel inheritance is used as

• User class inherits the CEO class and CEO class inherits the Employee Class

9.4 Aggregation

In our project Multilevel inheritance is used as

• Rider Aggregate the Rating Class in our project

9.5 Association

In our project Multilevel inheritance is used as

- Warehouse Manager manages the order.
- CEO manages the products
- Rider take the order
- Rider adds the order
- Employee adds the products
- Employee manages the order

Detailed Object Oriented Design

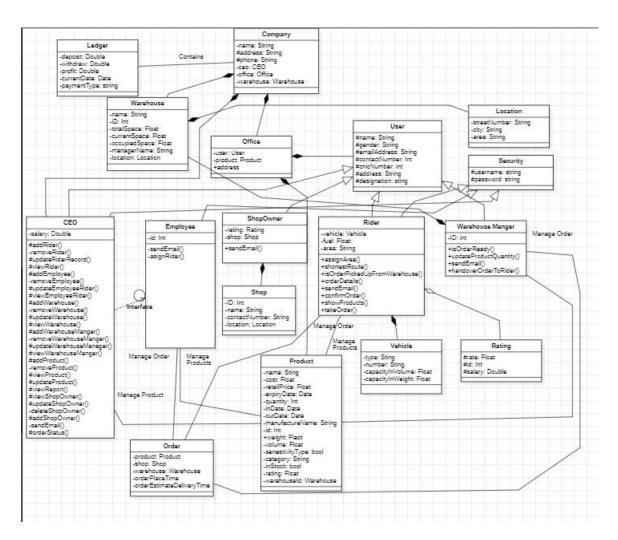


Figure 10.1: The detailed Object Oriented Design of the project that will be implemented according to mentioned logic

Data Structure

Use Case ID	Data Struc- ture Used	Justification for the use of data structure	
U01	Linked List	In the U01 (LOGIN), search and compare the user from the list so when the user data is found it returns the action.	
U04	Linked List	In the U04 (Account Details), Grid of the added users shown lists where all the users are stored(added)	
U05	Linked List	In the U05 (Update Account), Update data of the user present in the Linked List	
U06	Linked List	In the U06 (Add Product), Add the product data in the List.	
U07	Linked List	In the U07 (View Product), View the product data in the Grid that are stored in the list at the backend.	
U08	Linked List	In the U08 (Update Product), Update the product data in the list where the data of the products are added.	
U09	Linked List	In the U09 (Add Rider), Add the Rider data in the List. Selection of the list is because there is the ease in the deletion and search in the data of list	
U10	Linked List	In the U10 (Update Rider), update the rider data. Selection of the list is to search is to ease.	
U11	Queue	In the U11(Order Product), To place the order we use the mechanism of First in and First Out (first order item will be placed first)	
U12	Stack	In the U12 (Email), To send the mail and view the mail (first send mail is shown in the last and the most recent one in the first)	
U13	Linked List	In the U13 (Add Warehouse), Add the detail data of the warehouse in the list.	

U14	Linked List	In the U14 (Detail Warehouse), Select the desired warehouse and delete the data of the warehouse and also delete the data from the list and selection of list is that to delete the warehouse other indexes of list easily manage.
U15	Linked List	In the U15 (Edit Warehouse), Select the data from the list and Edit the detail data of the warehouse in the list.
U16	Linked List	In the U16 (Order Status), Data is selected and data of the desired Order is updated in the list.
U17	BST	In the U17 (Route Finder), Routes are found according to the points (nodes) so selection of BST is due to the ease of the data finding.
U18	Linked List	In the U18 (Add Shopkeeper), Add the shopkeeper data in the list because there is an ease for the deletion and searching.
U19	Linked List	In the U19 (Add Payment), payment of the specific shopkeeper is added on the list to search and edit the details in the list.
U20	Linked List	In the U20 (Add Expenses Amount), Add the Expenses data in the List. Because there is an ease to update the specific data in the list and search or delete it in list.
U21	Linked List	In the U21 (Create Account), Linked list is used to add user.

Exceptions

Type of Excep- tion	Why this exception will occur	Use Case Id in which ex- ception could be occurred	How you will han- dle the exception
Incorrect Format	By default system, take all input in string and the deploy system need to convert into desire format. If the input data is not converted into other datatype like intended and float the future task not performed e.g. string 2 and int 2 behave different in CPU.	U06,U19,U09	Restrict the user to enter the required data in correct format.
File not Exit	The required file not in the correct path and CPU not recognize it.	U14,U07,U04	Restrict the user first select the file then perfrom future action
Incorrect URL	The wrong URL of the website broken the link with the DNS and required data not fetch from server.	U17	Apply stick constrain to avoid it.

Data Storage

13.1 Mails (CSV)

Columns data names are

- 1. Columns data names are
- 2. Employee and Rider
- 3. Rider and Shopkeeper
- 4. Warehouse Manager and Employee
- 5. CEO and Employee

13.2 Products (CSV)

Columns data names are

- 1. Name
- 2. Cost
- 3. Retail price
- 4. Expiry Date
- 5. Quantity
- 6. In date
- 7. Out date

- 8. Manufacturer
- 9. ID
- 10. Weight
- 11. Volume
- 12. Category
- 13. Sensitivity
- 14. In stock
- 15. Rating
- 16. Warehouse Hold ID

13.3 Users (CSV)

Columns data names are

- 1. Name
- 2. Gender
- 3. Email address
- 4. Contact Number
- 5. CNIC number
- 6. Address
- 7. Designation

Email Sending

At first

- 1. Rider will email the employee about the order of shopkeeper
- 2. Employee email warehouse manager to ready the shipment for rider
- 3. Rider will email the Employee and Shopkeeper that he has picked the order and cc to CEO.

Project Plan

Use Case Id	Member Name	Estimated Completion Date
001-008	Syed Hashir	09/12/2022
009-018	Kabir Ahmed	10/12/2022
019-026	M. Hamad Hassan	11/12/2022

Analytical Reports

In our project, we can use the analytical reports

- 1. Salary Report
- 2. Rider Capture Order Report
- 3. Profit Report
- 4. Sold Products