



PROJECT REPORT

Fast Café Management System



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FAST Cafe Management System

Detailed Functional Requirements

Customer Functional Requirements:

1. User Registration and Authentication:
 - Customers should be able to register with their personal details, including name, contact number, email, and password.
 - Customers should be able to log in using their registered email and password.
2. Menu Browsing and Item Selection:
 - Customers should be able to view the café's menu.
 - Customers should be able to add items to their cart.
 - Customers should have the option to remove products from the cart.
3. Order Placement:
 - Customers should be able to place order by themselves or through Cashier.
 - Customers should be able to view their previous order history.
3. Feedback and Reviews:
 - Customers should have the option to provide feedback about the cafe or products.

Cashier Functional Requirements:

1. User Authentication:
 - Cashiers should be able to log in securely using their credentials (email and password).
2. Order Management:

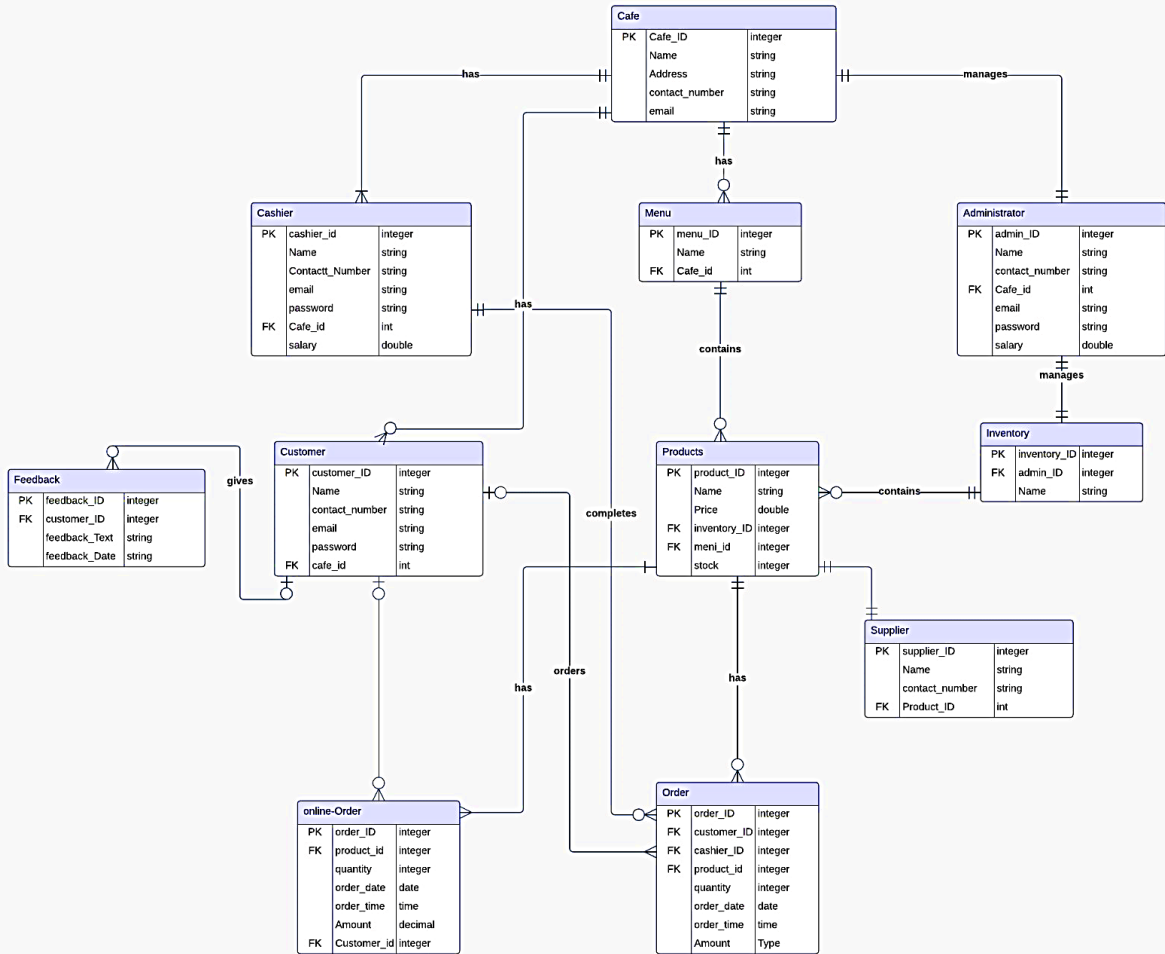
- Cashiers should have access to a dashboard displaying incoming orders.
 - Cashier should be able to take orders from Customers.
 - Cashier should be able to see the incoming online orders and approve them.
 - Cashier should be able to see total orders received in a day.
3. Payment Processing:
 - Cashiers should be able to process payments for orders using cash payments.
 - Cashiers should generate bills or receipts for customers, detailing the items ordered and total amount.
 4. Reporting:
 - Cashiers should have access to reports summarizing daily sales and revenue.

Admin Functional Requirements:

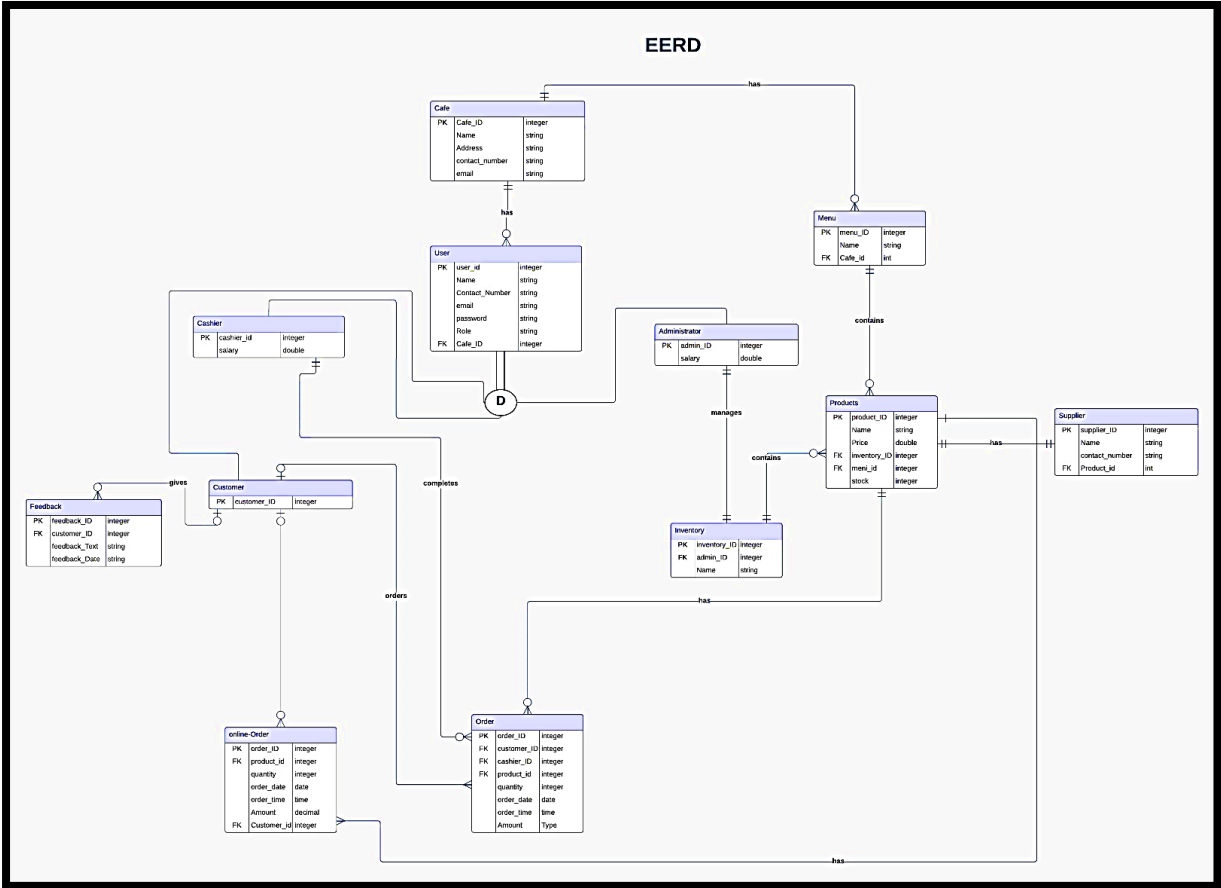
1. User Management:
 - Admins should have the ability to manage user accounts, including adding new users, modifying existing user details, and deactivating user accounts if necessary.
2. Menu Management:
 - Admins should have the ability to manage the café's menu, including adding new items, editing existing items, and removing items.
 - Menu changes should be reflected in real-time across all portals (customer, cashier).
3. Feedback Management:
 - Admins should have access to a dashboard displaying customer feedback.
4. Reporting and Analytics:
 - Admins should have access to reports on café operations, including sales performance and total revenue
5. Supplier Management
 - Admin should be able to add, remove and delete suppliers for different items.
 - Admin should be able to see the existing suppliers details for ordering stocks.

ERD

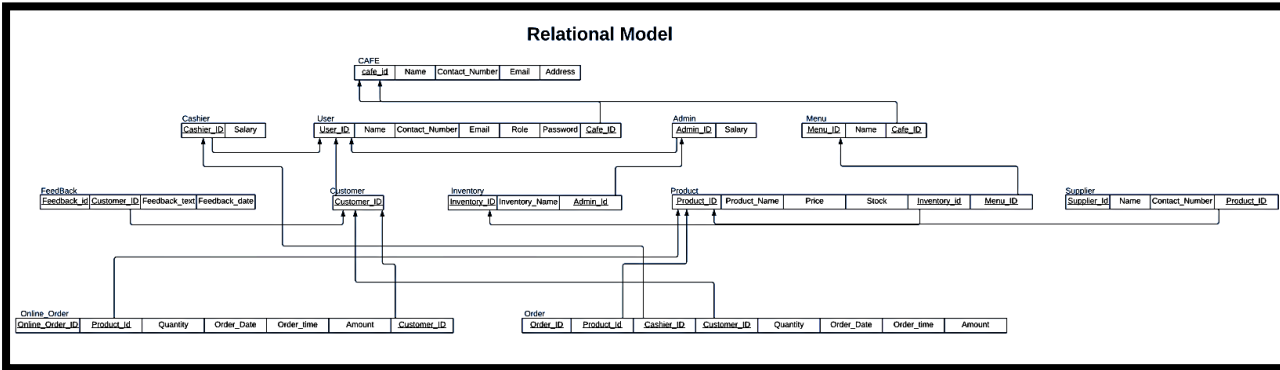
ERD



EERD



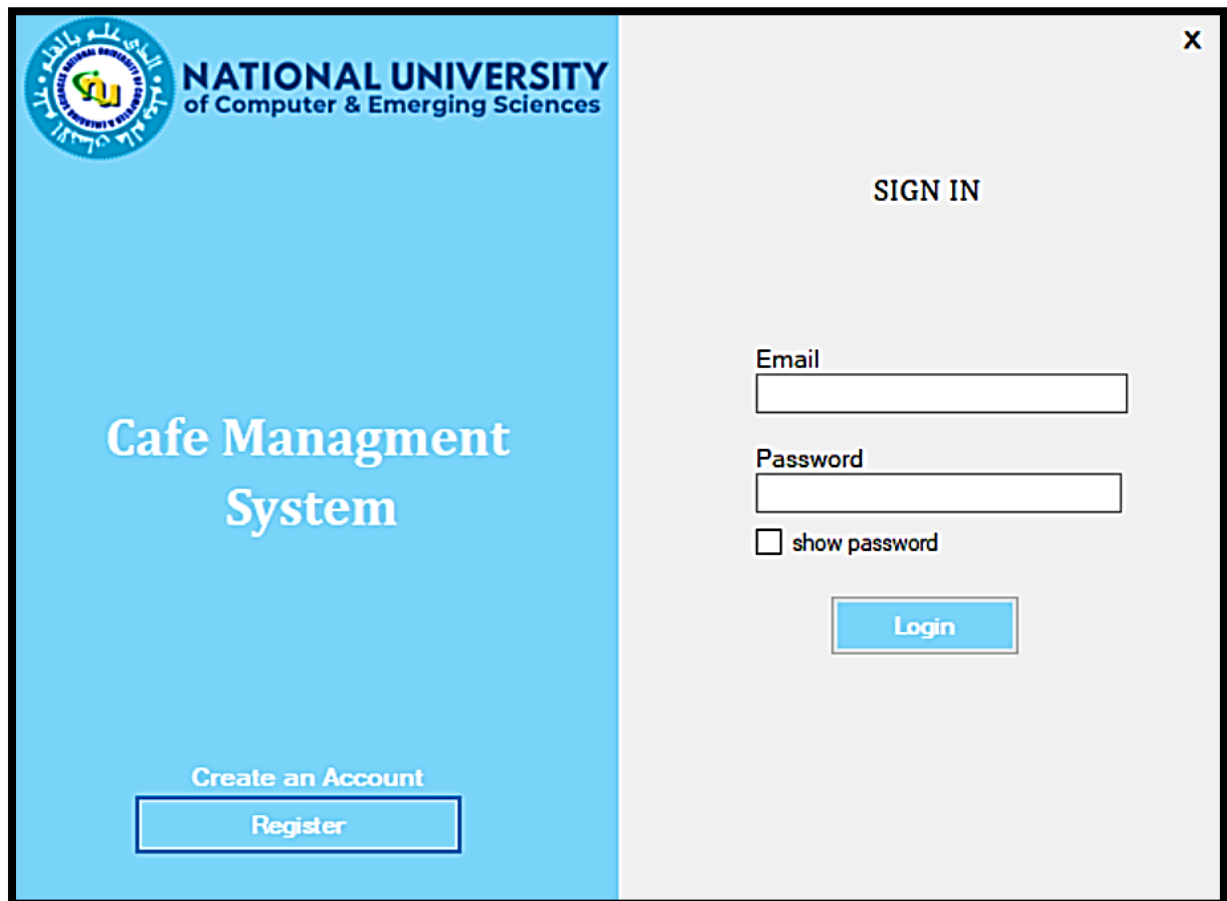
Relational Schema



User Guideline

Login


As soon as, we open our Cafe Management System, after the loading the system shows us a login screen which is the same for the three users i.e. Customers, Cashiers, and Admins. The login screen works by getting the email and password from the user using the system and opens the related page corresponding to the user's role.



The screenshot displays the login and registration interface of the Cafe Management System. The interface is divided into two main sections: a light blue left panel and a light gray right panel. The left panel features the National University of Computer & Emerging Sciences logo at the top left, the title "Cafe Managment System" in the center, and a "Create an Account" button with a "Register" label at the bottom. The right panel, titled "SIGN IN", contains input fields for "Email" and "Password", a "show password" checkbox, and a "Login" button. A close button (X) is located in the top right corner of the right panel.

Register

In case the user has no account, we have given the user an option to create one by simply clicking the Register button which will open the register page. Filling all the data field and clicking the Sign Up button will create the Customer's Account. However, if the user will not be able to add any of the information required then the message will appear to make the user fill all the fields. Also, if the user enters the password of less than 8 character or if the password and confirm password are not the same then also the user is given an error message and the account will not be formed.



NATIONAL UNIVERSITY
of Computer & Emerging Sciences

Cafe Managment System

Already have an Account?

X

REGISTER

Name

Email

Contact No

Password

Confirm Password

☐ show password

Admin



Admin's Portal


Dashboard


Accounts

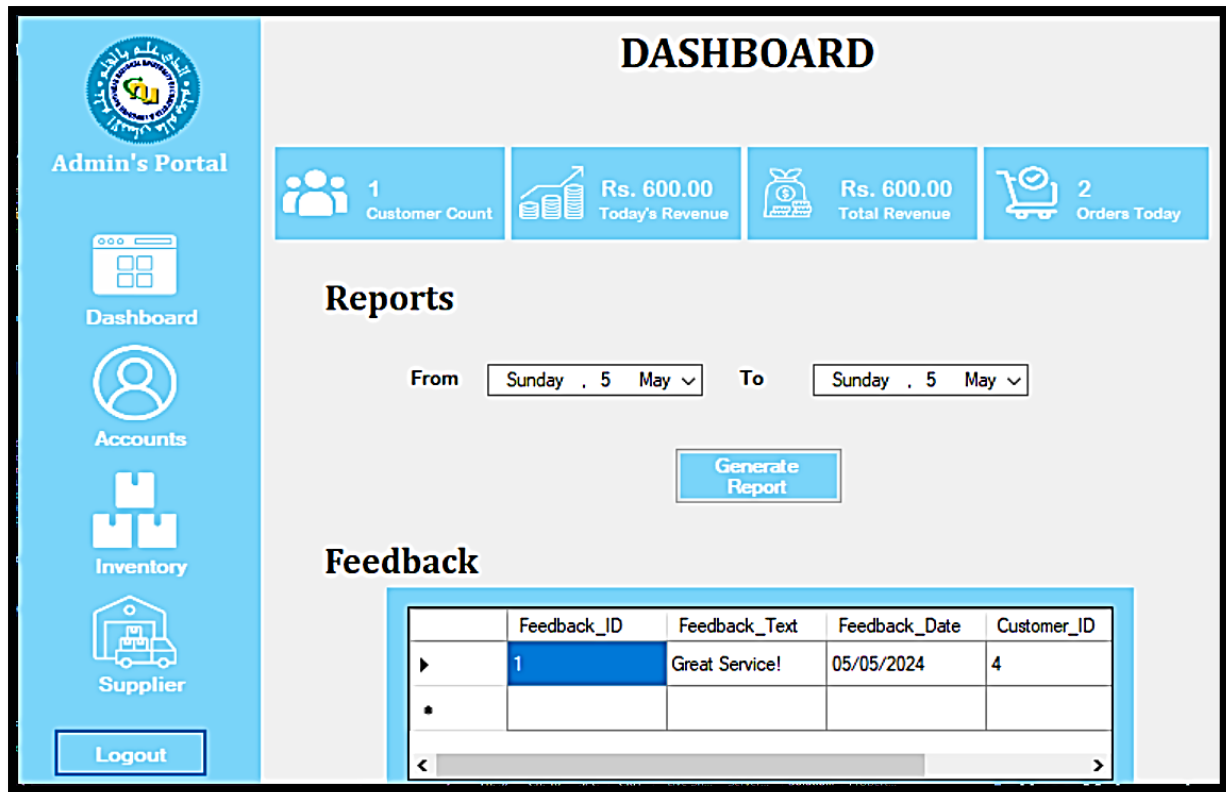

Inventory


Supplier




WELCOME TO FAST CAFE MANAGEMENT SYSTEM

When the Admin is logged in, the Admin’s main page is displayed having the options to show dashboard, manage accounts, manage inventory, manage supplier. Also a logout button which will return the user to the login page.



If the Admin selects the Admin’s Dashboard, the Admin’s Dashboard shows up. The dashboard shows the information related to Customer Count, Revenue generated by the Cafe today, Total Revenue generated by the Cafe, Total Orders Placed. If the Admin enters the date from and the date to in order to generate the report and clicks Generate Report Button, the Report appears as pop-up and shows all the information elated to Customer, Orders place, Products sold in that period of time. The Feedback table displays the feedback that the Customers have submitted over time about the Cafe’s service.



Admin's Portal

- Dashboard
- Accounts
- Inventory
- Supplier
- Logout

DASHBOARD


Report

	Customer_ID	CustomerName	Order_ID	Produ
▶	4	1	4	3
	4	1	5	3
•				

2 Orders Today

	Customer_ID	CustomerName	Order_ID	Produ
▶	1	Great Service!	05/05/2024	4
•				

After clicking the generate report button the Report pop-up appears displaying all the information related to Customer, Orders placed, and Products Sold in that period of time selected by the Admin.



Admin's Portal

- Dashboard
- Accounts
- Inventory
- Supplier
- Logout

ACCOUNTS

Add Account

Update Account

Remove Account

User's Data

Sort By:


	id	name	contact_num	email	passwor
▶	2	My	0342-6408015	1	2
	3	c1	1	c1	1234567
	4	1	1	2	1234567
•					

If the Admin clicks on the Accounts option, the Accounts page appears showing add account update account and remove account option as the Admin can add, update, and remove the accounts of all types. The User's Data table shows the Accounts info of all types to the Admin so that the Admin can manage them.

The screenshot displays the 'Admin's Portal' interface. On the left is a sidebar with icons for Dashboard, Accounts, Inventory, and Supplier, along with a Logout button. The main content area is titled 'ACCOUNTS' and features a modal window for 'Add Account'. This form includes input fields for Name, Email, Contact No, Password (with a 'show password' checkbox), Role (a dropdown menu), and Salary. An 'ADD' button is positioned below the form. To the right of the form is a table listing existing accounts, with columns for Name, Email, Contact No, Password, and Role. The table contains three entries, all with the same contact number and password.

Name	Email	Contact No	Password	Role
name	name@gmail.com	0333-12345678	12345678	Administrator
		12345678	12345678	
		12345678	12345678	

Now, if the Admin clicks on the Add Account button in the Account page a pop-up appears of add account in which textboxes are shown for the Admin to enter the necessary information for an account to be created. If all the information is filled and the password length is more than 8 characters long and the Admin clicks Add then the new account creates, else the system displays error.



Admin's Portal

ACCOUNTS

Dashboard

Accounts

Inventory

Supplier

Logout

x
move Account

Update Account

Enter User Email

SEARCH

Name

Contact No

Role

Customer

Email

Password


☐ show password

Salary






password
2
1234567
1234567

UPDATE

Now, if the Admin wants to update an already existing account then he clicks on the update account button and the update account pop-up appears. In this pop-up Admin enters the user's email that the Admin needs to be updated and searches. If the email of the user exists then the textboxes below are filled automatically that the Admin can than change accordingly to update the user account. Else the system displays error that the email does not exist. Upon clicking the update button the new information changed in the textboxes of the update account pop-up updates the information in the database.



Admin's Portal

-  Dashboard
-  Accounts
-  Inventory
-  Supplier
-  Logout

ACCOUNTS

Remove Account

Name

Contact No

Role

Email

Password

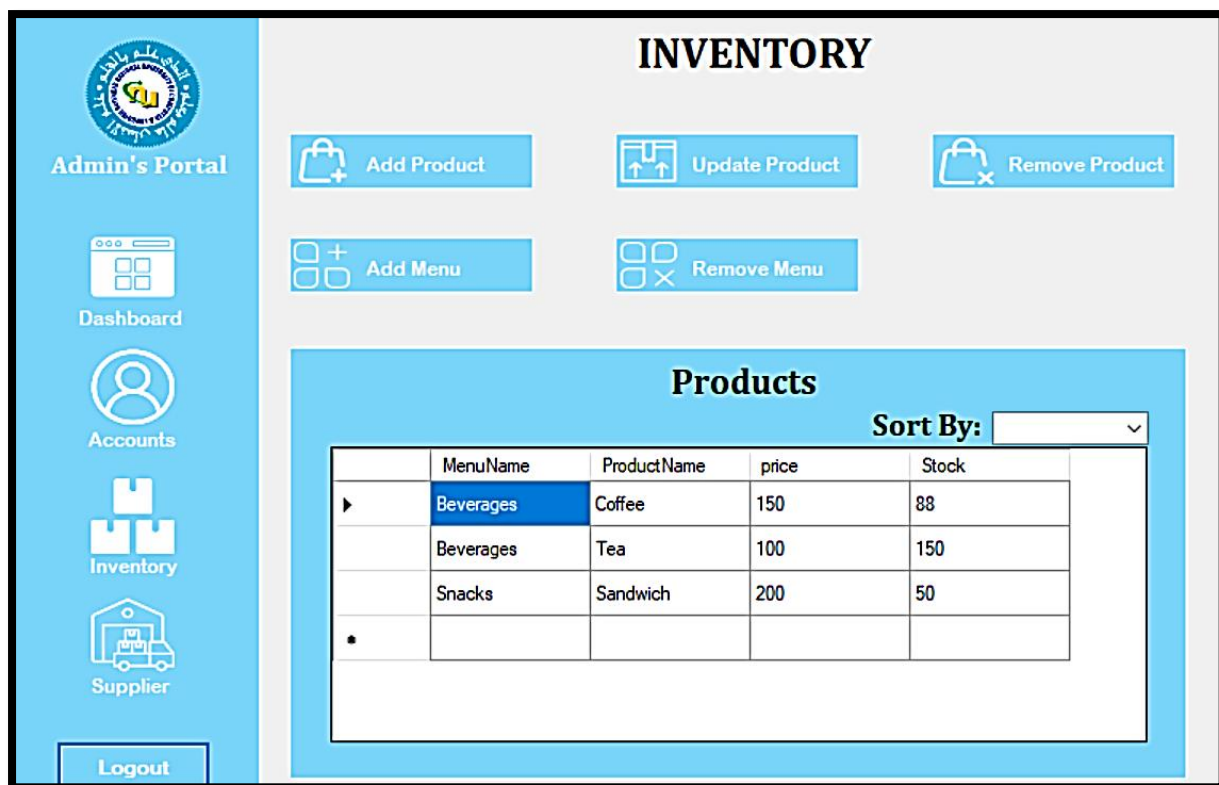
☐ show password

Salary


Remove Account


password
2
1234567
1234567


Now, if the Admin wants to remove an already existing account then he clicks on the remove account button and the remove account pop-up appears. In this pop-up Admin enters the user's email that the Admin needs to be removed and searches. If the email of the user exists then the textboxes below are filled automatically that the Admin wants to be deleted. Else the system displays error that the email does not exist. Upon clicking the remove button the account is deleted from the database.





If the Admin clicks on the Inventory option, the Inventory page appears showing add product, update product, remove product, add menu, and remove menu option as the Admin can add, update, and remove the product and menu in inventory management. The product's Data table shows the product info with menu to the Admin so that the Admin can manage them.



Admin's Portal


Dashboard


Accounts


Inventory


Supplier



INVENTORY

Add Product

Update Product

Remove Product

Update Product

Enter Product Name

Coffee

SEARCH

Product Name

Coffee

Price

150

Stock


88


Menu Type


Beverages


Update


Now, if the Admin wants to update an already existing product then he clicks on the update product button and the update product pop-up appears. In this pop-up Admin enters the product's name that the Admin needs to updated and searches. If the name of the product exists then the textboxes below are filled automatically that the Admin can than change accordingly to update the product. Else the system displays error that the name of the product does not exist. Upon clicking the update button the new information changed in the textboxes of the update product pop-up updates the information in the database.



Admin's Portal


Dashboard


Accounts


Inventory


Supplier


Logout

INVENTORY

Add Product

Update Product

Remove Product

Remove Product

x

Enter Product Name

Coffee

SEARCH

Product Name

Coffee

Price

150

Stock

88


Menu Type


Beverages


Remove


--	--	--	--	--	--


Now, if the Admin wants to remove an already existing product then he clicks on the remove product button and the remove product pop-up appears. In this pop-up Admin enters the product's name that the Admin needs to removed and searches. If the name of the product exists then the textboxes below are filled automatically that the Admin wants to be deleted. Else the system displays error that the name does not exist. Upon clicking the remove button the product is deleted from the database.


Admin's Portal


Dashboard



Accounts



Inventory



Supplier

Logout

INVENTORY

 Add Product

 Update Product

 Remove Product

x

Add Menu

Menu Name

ADD

Menu


	MenuName	ProductName	price	Stock
▶	Beverages	Coffee	150	88
	Beverages	Tea	100	150
	Snacks	Sandwich	200	50
•				


<


>


•


Now, if the Admin clicks on the Add Menu button in the Inventory page a pop-up appears of add Menu in which a textbox is shown for the Admin to enter the Menu Name for a Menu to be added. If the information is filled and the Admin clicks Add then the new Menu adds, else the system displays error. Also, the Menu table displays all the menu and products so far.



Admin's Portal


Dashboard



Accounts



Inventory



Supplier



INVENTORY

 Add Product

 Update Product

 Remove Product

Remove Menu

Menu Name


Beverages

Remove


Menu

	menu_id	Name	Cafe_id
▶	1	Beverages	1
	2	Snacks	1
*			


Now, if the Admin clicks on the Remove Menu button in the Inventory page a pop-up appears of Remove Menu in which a textbox is shown for the Admin to enter the Menu Name for a Menu to be removed. If the information is filled and the Admin clicks Remove then the Menu is removed, else the system displays error. Also, the Menu table displays all the menu and products so far.




Admin's Portal




Dashboard



Accounts



Inventory



Supplier

Logout

SUPPLIER

Name

Contact No

Product Name

ADD

Remove

Update

Supplier's Data

Sort By: ▼

	SupplierName	Contact	ProductName	InventoryName	AdminName
▶	Coffee Supplier	051-7654321	Coffee	inventory1	My
			Tea	inventory1	My
			Sandwich	inventory1	My
•					

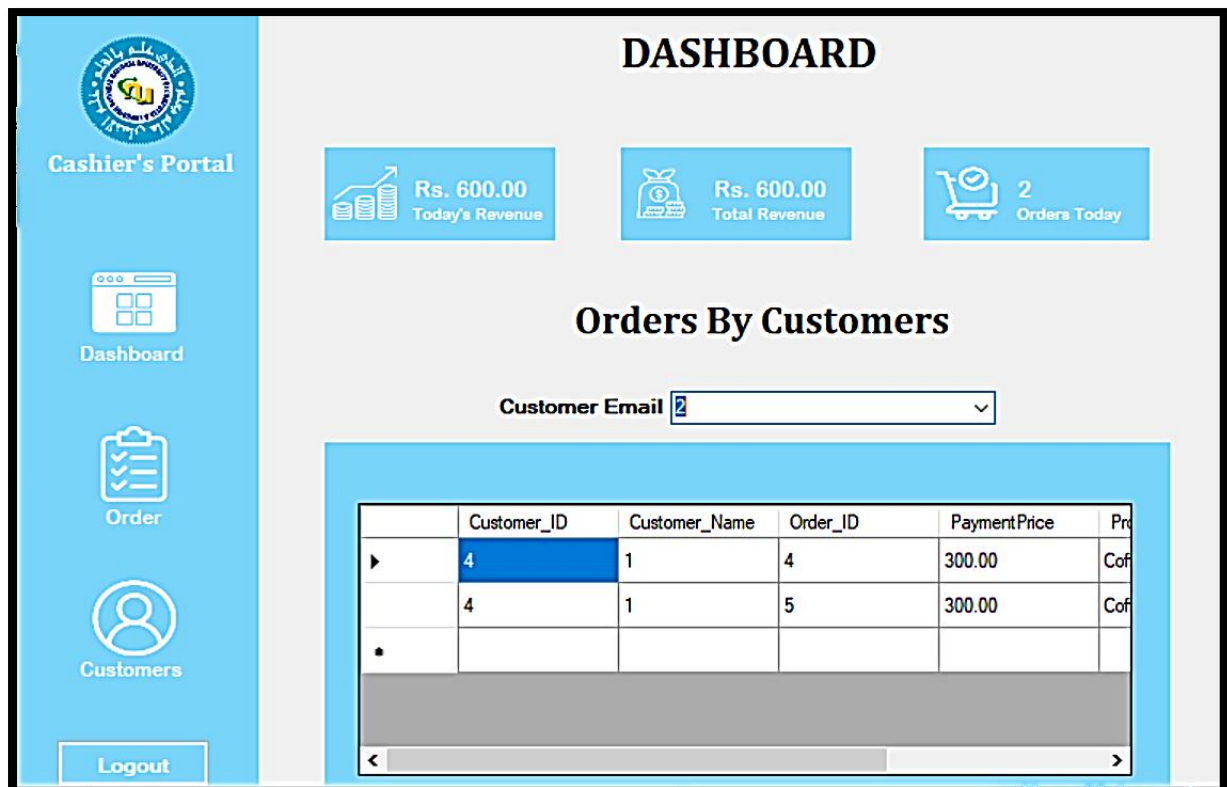
◀
▶

If the Admin clicks on the Supplier option, the Supplier page appears showing add supplier, update supplier, remove supplier and a Supplier table showing the information above the supplier, the products they are supplying, inventory of that product and the admin handling the inventory as the Admin can add, update, and remove the supplier. To add a supplier, the admin will fill all the information required in the textboxes and clicks add. If any of the information is missing the system will give error, else the supplier will be added. However to update and remove the supplier the admin needs to just click on the supplier the admin wants to update/delete from the supplier's table and the fields will be filled, now the admin can just click remove to remove and update after changing the information the admin wants to update in order to update.


Cashier




When the Cashier is logged in, the Cashier's main page is displayed having the options to show dashboard, manage orders, display Customer's History. Also a logout button which will return the user to the login page.




If the Cashier selects the Cashier's Dashboard, the Cashier's Dashboard shows up. The dashboard shows the information related to Revenue generated by the Cafe today, Total Revenue generated by the Cafe, Total Orders Placed today. If the Cashier chooses any Customer's email, the Customer's table shows all the information related to Customer, Order placed, Products sold, payment by that Customer. Else, if the field remains empty then the table also displays nothing as no Customer has been selected.




Cashier's Portal



Dashboard



Order



Customers

Logout

ORDER

Products

	MenuID	MenuName	Prod
▶	1	Beverages	3
	1	Beverages	4
	2	Snacks	5
•			

Online Order

	Online_Order_ID	Customer_ID
▶	2	4
•		

Customer Email

Customer Name

Product ID

Product Name

Quantity

Price
150

Approve

Cart

	Customer Email	Customer Name
▶	2	1
•		

Total Price Rs. 300

ADD

CLEAR

REMOVE

Pay

Receipt

If the Cashier, clicks on the Orders button, then the Orders page appears which shows Products table displaying all the information regarding the Products, Online Orders table showing all the Orders being placed by Customers online waiting here for the Cahier to approve, and Cart displaying all the Products and Customer information whom the Cashier has placed order manually and the Cashier is waiting for the payment. The textboxes will be filled as soon as the Cashier will click on the product that the Customer wants to buy from the Products table and the cashier enters the Customer's email. Now, if the Cashier clicks Add the product selected are added to the cart table, and if the cashier clicks on an item from the cart and clicks remove the item will be removed from the cart. If the Cashier clicks remove all the selected products in the textboxes are erased. Now, if the Cashier clicks the receipt button a receipt generates showing all the order details. Click on Pay will add the cart items to order and the order places.

Order Receipt

Date: 05/05/2024 21:43

Email: 2


Name: 1

Product Name	Quantity	Price	Total
Coffee	2	150	300


Subtotal: Rs300.00

Total: Rs300.00


Thank you for your business!




Cashier's Portal



Dashboard



Order



Customers

Logout

CUSTOMERS


	Customer_ID	Order_ID	Product_ID	Quantity	Order_Date
▶	4	4	3	2	05/05/2024
	4	5	3	2	05/05/2024
•					

If the Cahier clicks on the Customers option, the Customer’s page appears showing a Customer table showing all the information of Customer, Order placed by them and the Products they have bought.


Customer





When the Customer is logged in, the Customer's main page is displayed having the options to place orders, give feedback, see order history. Also a logout button which will return the user to the login page.



Customer's Portal


 Order


 Feedback


 Order History

[Logout](#)

CUSTOMER ORDER

Products

	MenuID	MenuName	ProductID	ProductName	ProductPrice
▶	1	Beverages	3	Coffee	150
	1	Beverages	4	Tea	100
	2	Snacks	5	Sandwich	200
•					

Product ID

Product Name

Quantity

Price
 150

[ADD](#)
[CLEAR](#)
[REMOVE](#)

Cart

	Product ID	Product Name
▶	3	Coffee
•		

Total Price Rs. 300

[Pay](#)
[Reciept](#)

If the Customer, clicks on the Orders button, then the Orders page appears which shows Products table displaying all the information regarding the Products, and Cart displaying all the Products and Customer information that will go to the Cashier for approval. The textboxes will be filled as soon as the Customer will click on the product that the Customer wants to buy from the Products table. Now, if the Customer clicks Add the product selected are added to the cart table, and if the Customer clicks on an item from the cart and clicks remove the item will be removed from the cart. If the Customer clicks remove all the selected products in the textboxes are erased. Now, if the Customer clicks the receipt button a receipt generates showing all the order details. Click on Pay will add the cart items to online order and the order places.

Order Receipt

Date: 05/05/2024 21:47

Email: 2


Name: 1

Product Name	Quantity	Price	Total
Coffee	2	150	300


Subtotal: Rs300.00

Total: Rs300.00


Thank you for your business!




Customer's Portal



Order



Feedback



Order History

Logout


CUSTOMER FEEDBACK

Write your Feedback here.

Feedback Here!

Submit


If the Customer clicks on the Feedback button, a feedback page appears showing a textbox for the Customer to fill with the feedback the Customer wants to give. Upon clicking the Submit button the feedback is added to the database and is displayed to the Admin for further improvement or appreciation.




Customer's Portal

ORDER HISTORY


History



Order



Feedback



Order History

Logout

	Customer_ID	Order_ID	Product_ID	Name	Quantity
▶	4	4	3	Coffee	2
	4	5	3	Coffee	2
•					

If the Customer clicks on the order history button the order history page appears showing the order history table containing the information about the orders that the customer have placed previously, products the customer bought, quantity, amount.