

RESTAURANT DELIVERY APPLICATION

Version 1.0

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Presented by

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1.INTRODUCTION

Restaurant Delivery Application is a stand-alone application which can be accessed by Users to order food, track status, update profile. Admin can update the menu items, view, and update the customer details, view and update the order status. Customers can update the profile, place an order, add or remove from cart, track order and cancel the order that is placed. Higher Authority can view the restaurant delivery application and the performance of the application and provide the feedback to the developers.

Cynosure of Restaurant Delivery System

- Login and logout for each user.
- Update profile made easy as it fetches the records from the database in the text fields.
- Managed maximum exceptional handling and recorded all the exceptions in the database table to improve this application.
- Admin can view and update customer's details.
- Customer can add or delete the menu items from the cart.

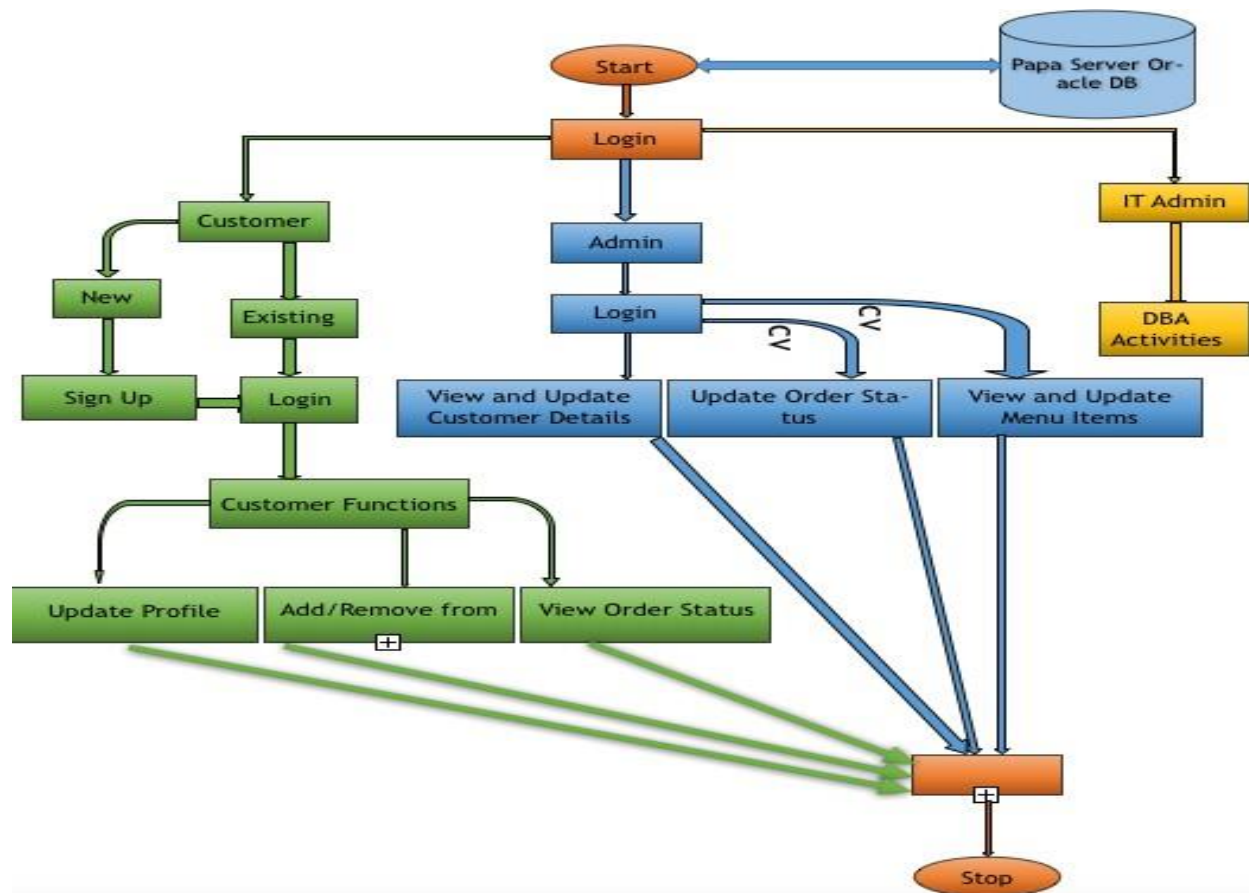
1.2. EXPECTED OUTCOMES

- Build a common platform for food ordering.
- Provide hassle-free applications for the customers.
- Admin can view, add, and update the customer details.
- Admin can view, add, and update the menu items.
- Admin can view and update the order status.
- Customers can create an account, update the profile , add or remove menu items from cart and track order status.

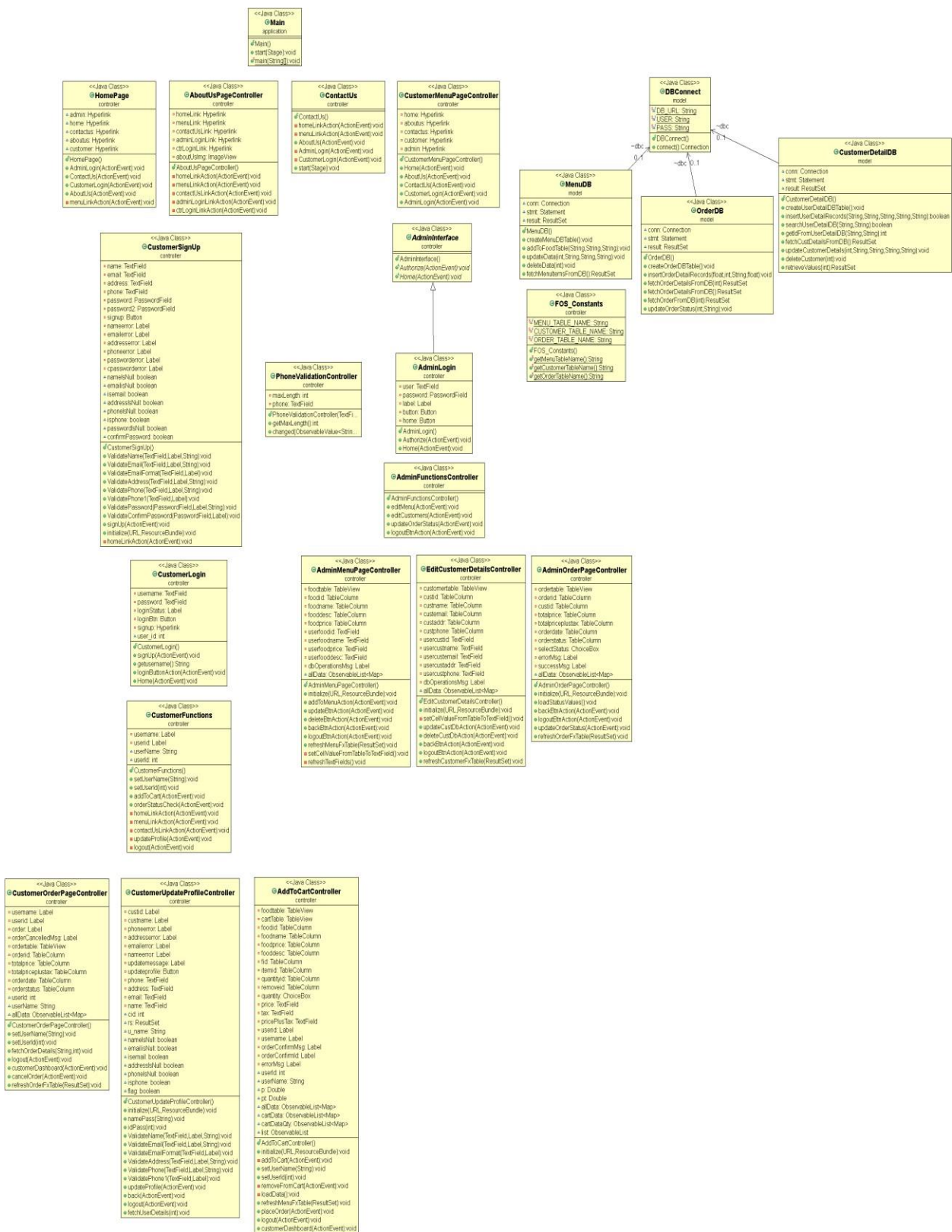
2. TECHNICAL DETAILS

2.1. APPLICATION ARCHITECTURE

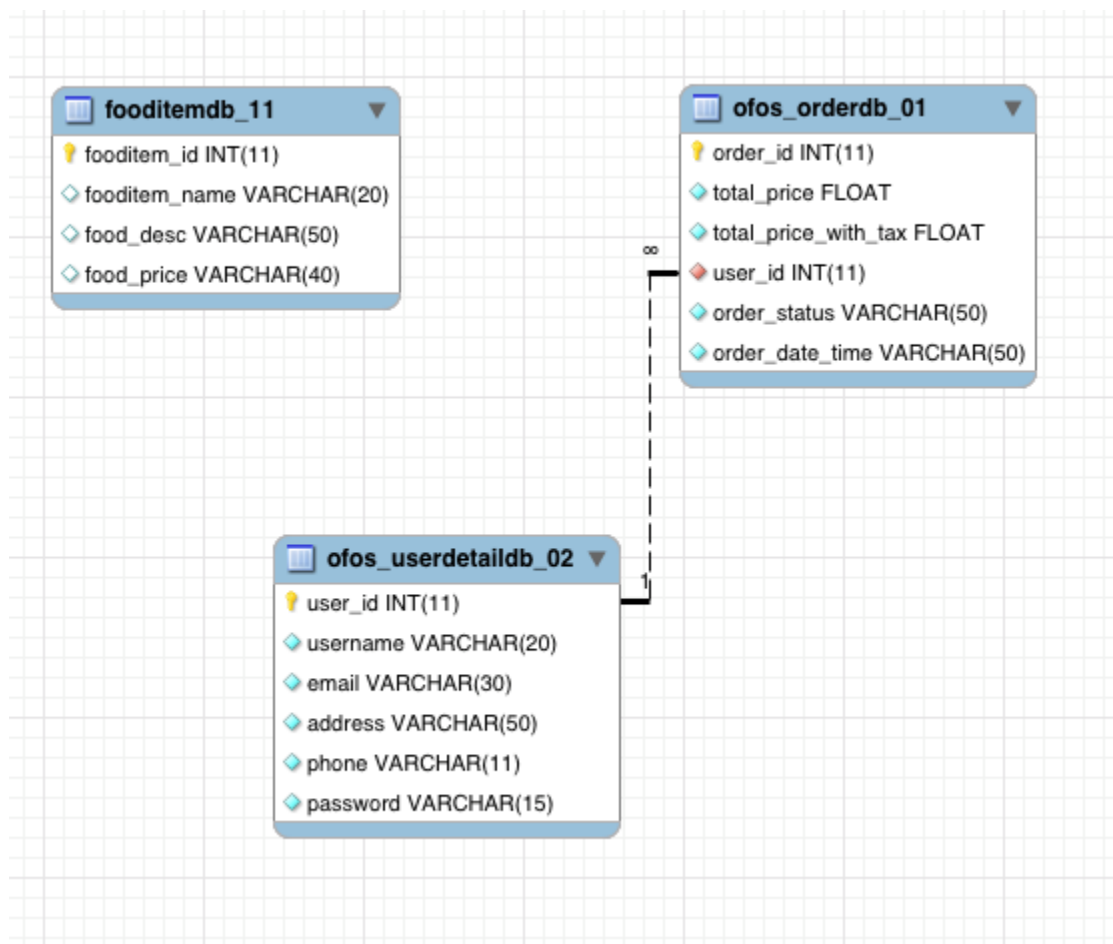
Below is the overview of the application and the navigation inside the application depending upon the category.



2.2.UML



2.3.ERD



3. TECHNOLOGIES USED

- **Front End:**

JavaFX: Software platform for creating and delivering desktop applications.

- **Back End:**

MySQL Developer: Integrated development environment for working with SQL in MySQL databases.

- **Technical Requirements:**

Below is the technology that was required to build this project.

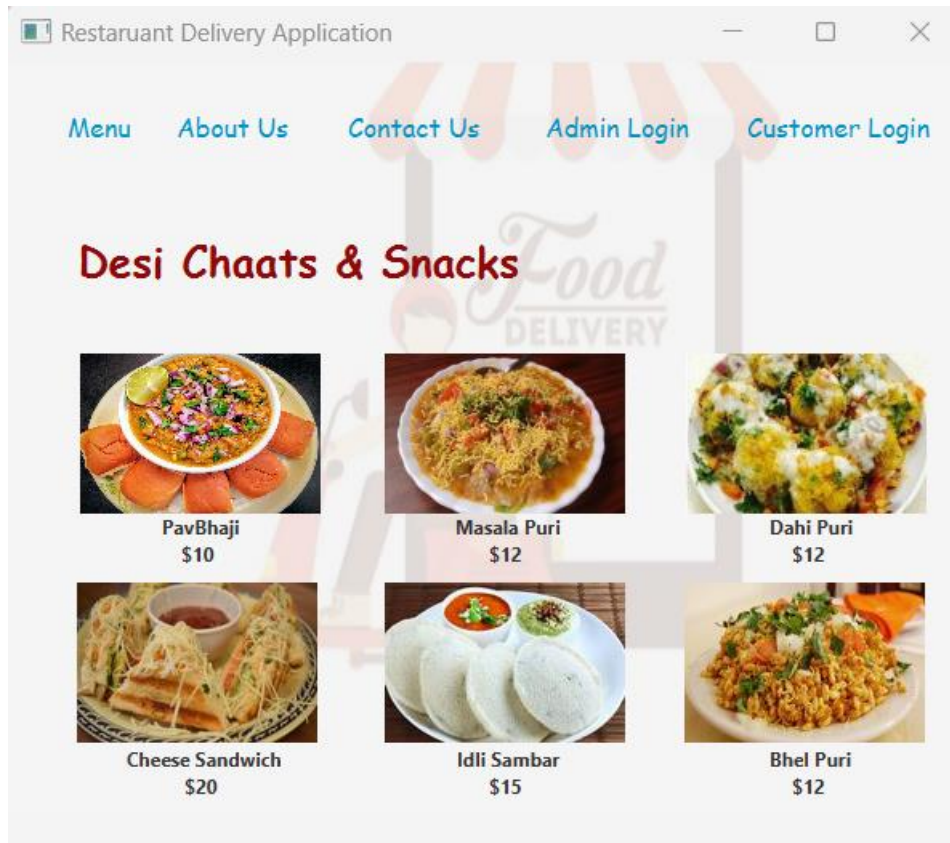
- Java
- JavaFX
- MySQL Database

4.HOME PAGE

4.1. Home page

Home Page is common for admin and customer. The page has hyperlinks to navigate to Menu page, About Us, Contact Us, Admin Login and Customer Login screens.

4.2. Screenshot



5.LOGIN

5.1.AdminLogin

- Once the admin login hyperlink on the main page is clicked, the admin login screen appears.
- When logging in, the administrator must provide their Username in the User Name text box and their Password in the Password field.
- If the username or password value is not provided and left blank, or if the values do not match the admin username and password set in the Java code, an error notice explaining that the credentials are invalid will be shown at the bottom of the screen.
- Once the essential forms have been filled with correct values, the admin will be directed to an admin operations dashboard.

S. No	UserName	Password	Description
1	admin	admin123	Login Successful
2	admin	admin1234	Invalid credentials

5.1.1. Admin Login Screenshots

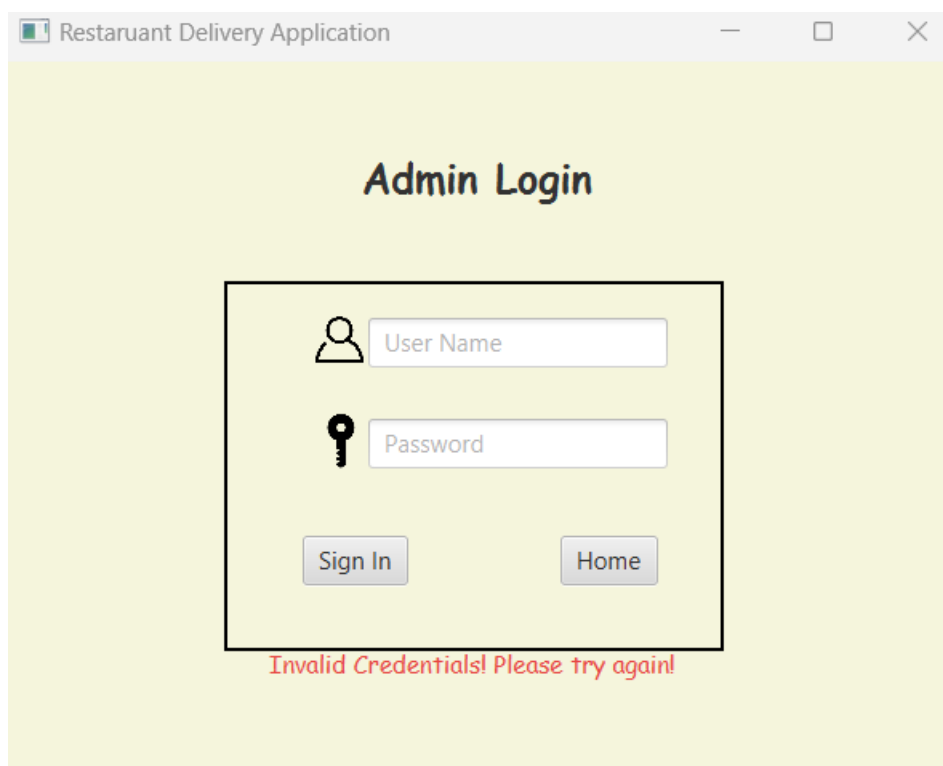
1. Admin Login Page Entry:

The screenshot shows a web application window titled "Restaruant Delivery Application". The main content area has a light yellow background and is titled "Admin Login" in a large, bold, black font. Below the title, there is a black-bordered box containing the login form. The form consists of two text input fields: "User Name" (preceded by a user icon) and "Password" (preceded by a key icon). Below these fields are two buttons: "Sign In" and "Home".

2.Admin Successful Login:



3.Admin Invalid Credentials:



5.2. Customer Login

- When the Customer login hyperlink on the main page is clicked, the login screen for the customer is shown.
- When a client logs in, he or she must enter his or her Username in the User Name text box and his or her Password in the Password field.
- If the username or password value is not supplied and left blank, or if the values do not match the credentials recorded in the database, an error notice explaining that the credentials are incorrect will be shown at the bottom of the screen.
- The customer will be sent to a customer dashboard once the required fields have been filled with valid inputs.


S. No	Username	Password	Description
1	Sai	Sai123	Successful Login
2	Sai	Saib123	Credentials are invalid

5.2.1. Customer Login Screenshots


1. Customer login entry page:

Restaruant Delivery Application

Customer Login



User Name



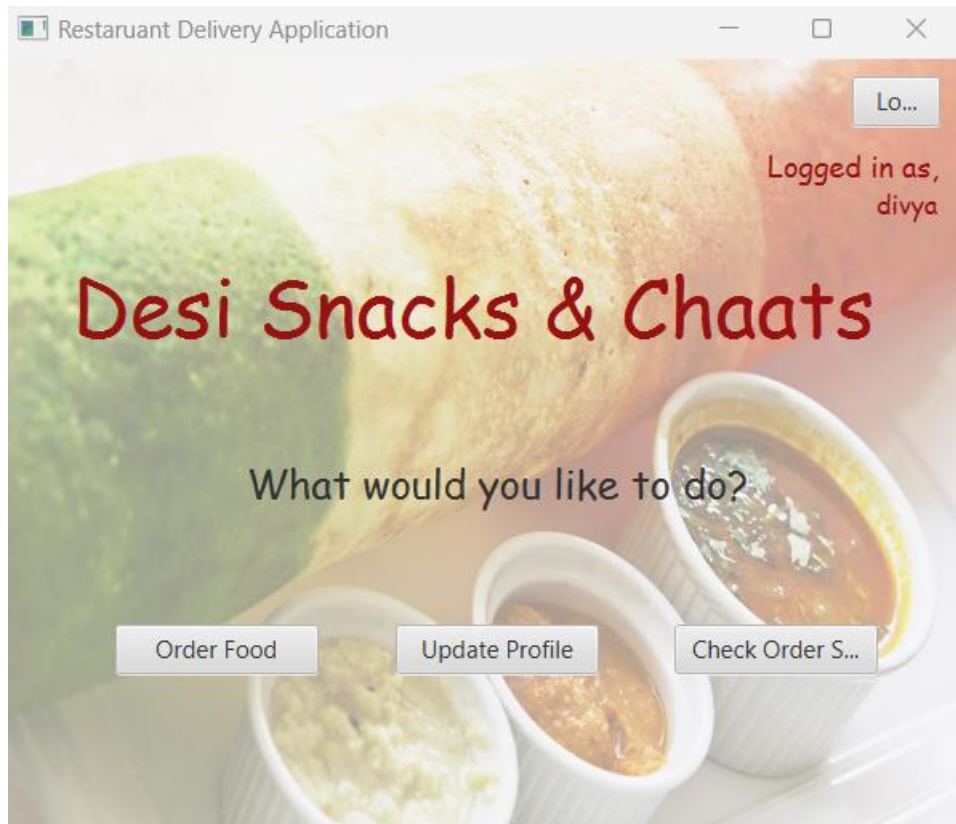
Password

Sign In

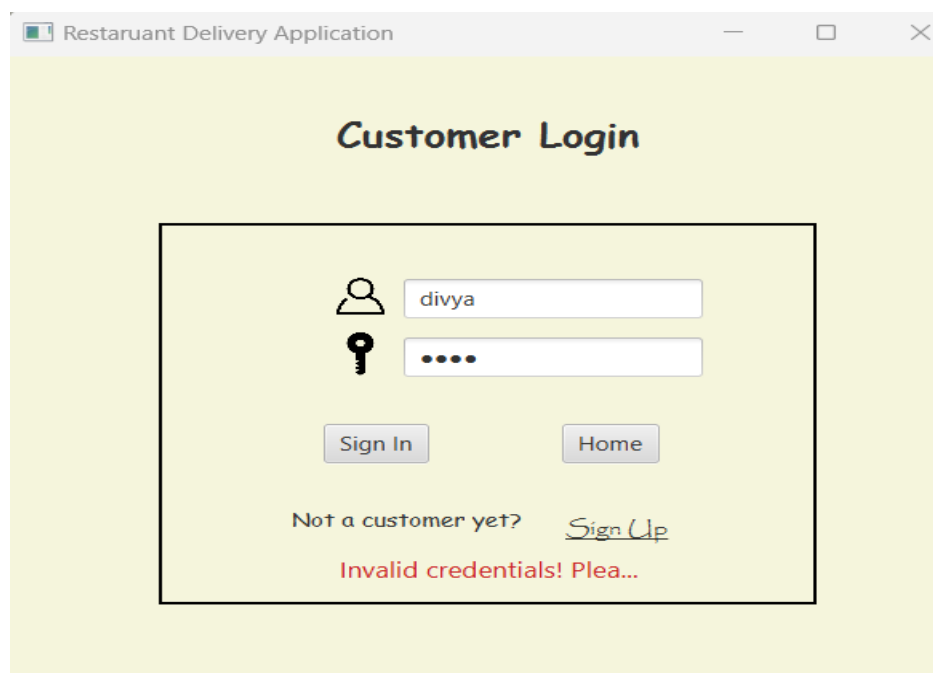
Home

Not a customer yet? [Sign Up](#)

2. Customer Successful Login:



3. Invalid credentials scenario:



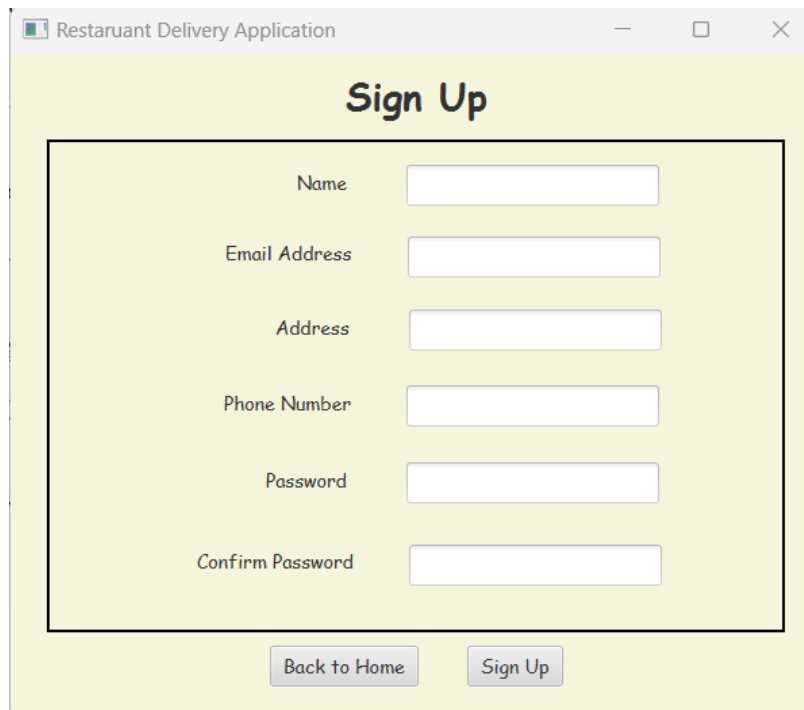
6.SIGN UP

6.1. Customer Sign up screen.

- A new user can register for the Restaurant Delivery Application by clicking on the Sign-Up hyperlink on the login screen.
- The user must input genuine information in all sections, including Name, Email address, Address, Phone Number, Password, and Confirm Password.
- If the boxes are left blank, an error notice explaining that the fields are necessary will be displayed when you click the Sign-Up button.
- Even after the user has completed all the forms, validations for the email, phone number, and confirm password fields have been added to verify that legitimate inputs are captured in the database.
- The email address is validated to ensure that it contains just the following domain names:
 1. www.gmail.com
 2. www.yahoo.com
 3. www.hawk.iit.edu
- If any other format is used, an error notice will be displayed informing the user that a genuine email address must be used.
- The phone number is verified to guarantee that the user enters no more than ten characters in the text field and that the entry contains only numeric digits (0-9) and no other characters.
- If the user inputs different passwords and confirms password values, the user will be notified that the passwords do not match.
- After filling out all of the text boxes with valid information and hitting the Sign-Up button, the user will be redirected to the login screen, where they will input their credentials to access the program.

6.1.2. Customer Signup Screenshots:

1.Sign Up page entry



Restaruant Delivery Application

Sign Up

Name

Email Address

Address

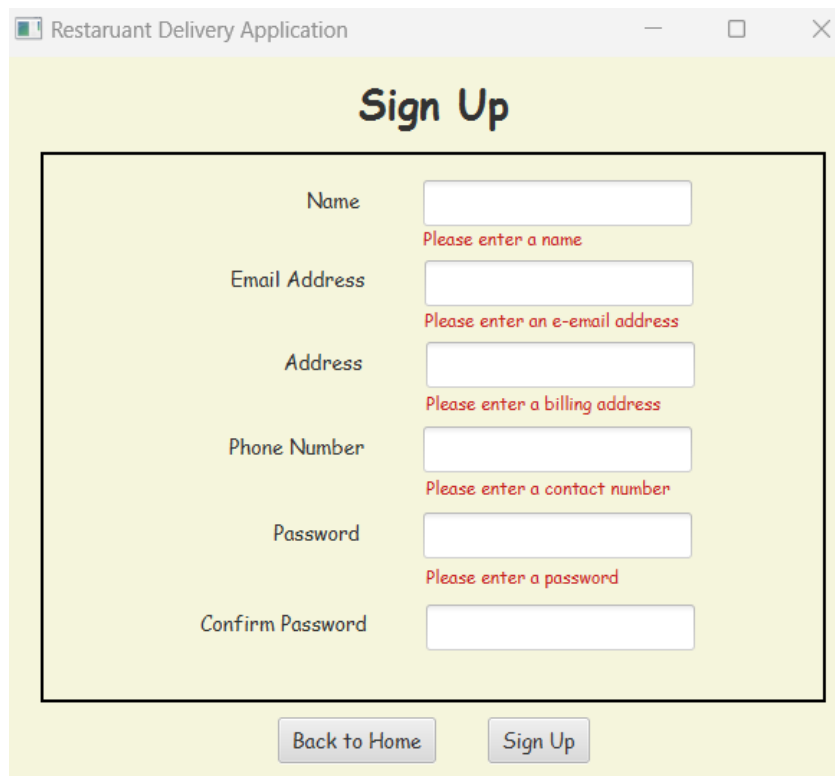
Phone Number

Password

Confirm Password

[Back to Home](#) [Sign Up](#)

2.Empty fields prompt



Restaruant Delivery Application

Sign Up

Name
Please enter a name

Email Address
Please enter an e-email address

Address
Please enter a billing address

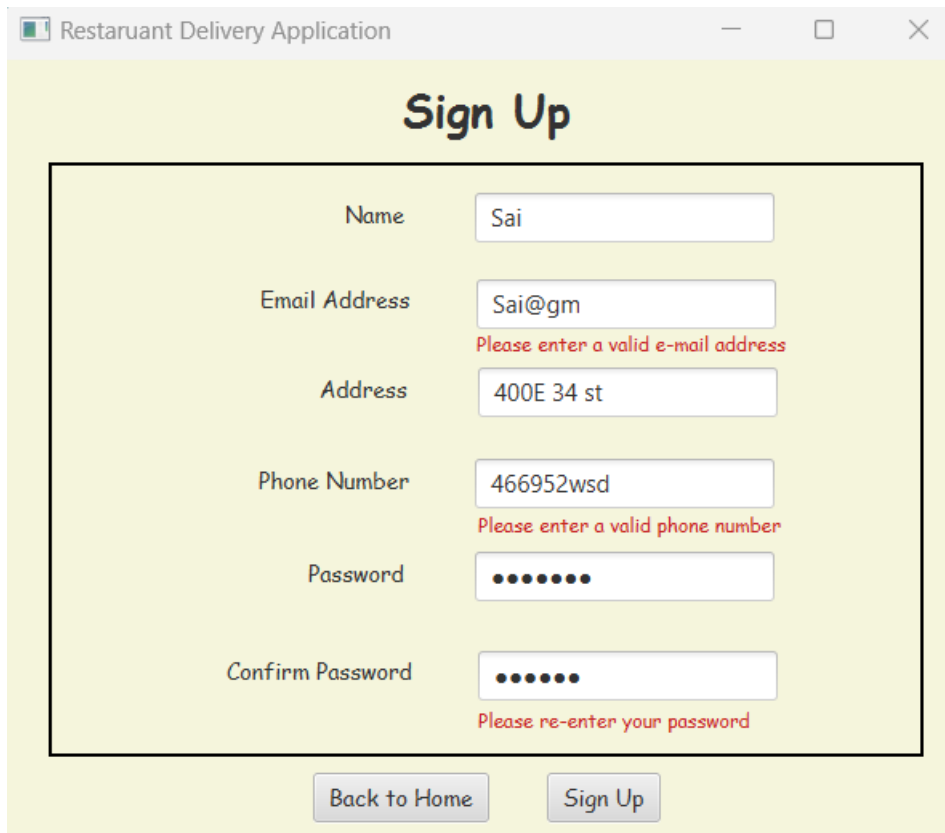
Phone Number
Please enter a contact number

Password
Please enter a password

Confirm Password
Please enter a password

[Back to Home](#) [Sign Up](#)

3.Validation errors on Email Address, Phone Number and Confirm password fields

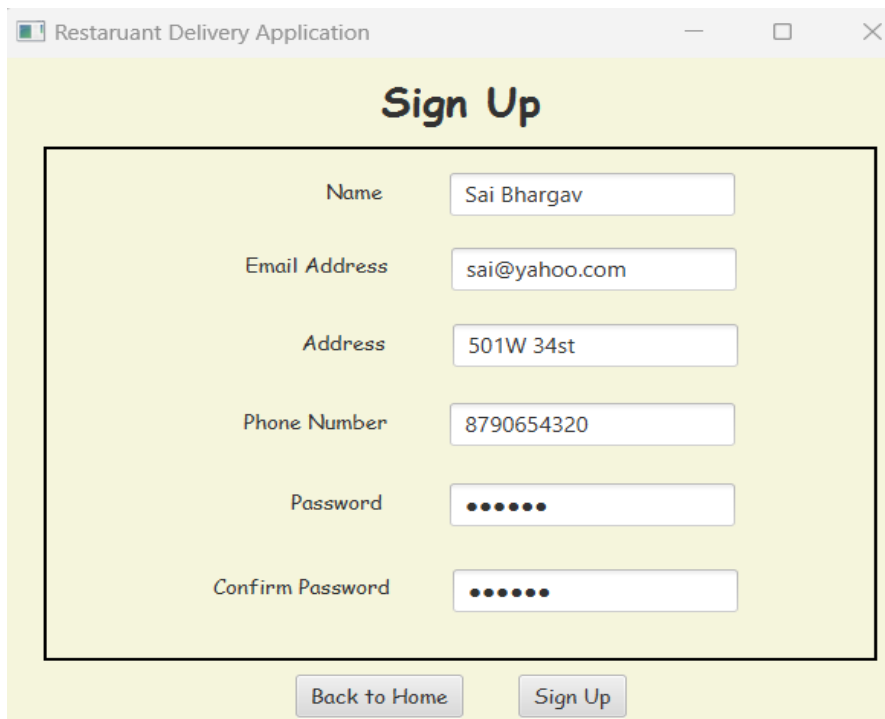


The screenshot shows a web browser window titled "Restaruant Delivery Application" with a "Sign Up" form. The form contains the following fields and validation messages:

Field	Value	Validation Message
Name	Sai	
Email Address	Sai@gm	Please enter a valid e-mail address
Address	400E 34 st	
Phone Number	466952wsd	Please enter a valid phone number
Password	
Confirm Password	Please re-enter your password

At the bottom of the form, there are two buttons: "Back to Home" and "Sign Up".

4.If all fields are valid the customer will be directed to login screen by clicking the Sign Up button.



The screenshot shows the same "Sign Up" form, but now all fields are filled with valid data, and there are no validation messages:

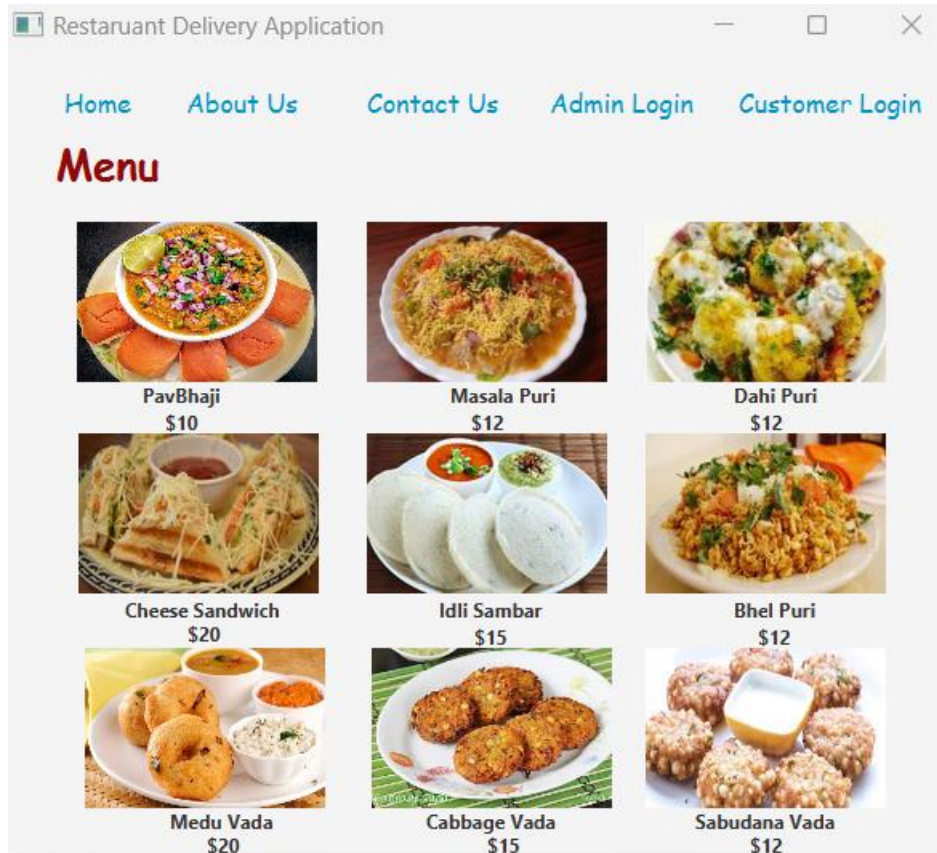
Field	Value
Name	Sai Bhargav
Email Address	sai@yahoo.com
Address	501W 34st
Phone Number	8790654320
Password
Confirm Password

At the bottom of the form, there are two buttons: "Back to Home" and "Sign Up".

7.MENU PAGE

7.1. Menu Page:

This page displays all the menu items with images to the users. There are the links to navigate to the Home, About Us, Contact Us, Admin Login, Customer Login. The users can view the available food items and their price.



8.ADMIN DASHBOARD

The admin dashboard displays options and description on the operations possible for the admin.



9.MENU DETAIL OPERATIONS

9.1. Functionalities:

The admin can examine, add, delete, and change the menu items that are automatically filled into the table from the database.

- **Add:** In the text boxes at the bottom of the screen, the admin can enter the Menu item name, price, and description. When you click the add button, the information is entered into the database. The table view reflects the updated database.
- **Update:** The admin updates the table by clicking on a row. Row records will be displayed in the text fields. The administrator can alter the text fields and then click the update button to commit the changes to the database and table view.
- **Delete:** The admin clicks on a row on the table. The row records will render in the text fields. The admin can click on the delete button to delete the record from database and the table view.
- **Back:** Back button will redirect admin to go back to the dashboard.
- **Logout:** Logout button will log the admin out of the application and navigate back to login screen.

The screenshot shows a web application window titled "Restaruant Delivery Application". Inside, the "Menu Detail Operations" section features a table with the following data:

MENU ID	MENU ITEM	PRICE	DESCRIPTION
1	pavbaji	12.00	Mumbai favourite dish
2	Bhel Puri	8.00	Medium Spicy!
3	Masala Dosa	10.00	South Special!
4	Dahi Puri	12.09	Chef Special!
5	Rava Idli	5.00	Ghee Topped!
6	Onion Dosa	9.00	Dosa Special!
7	Sev Poori	12.00	Tangy!
8	Pizza Dosa	20.00	Hyderabad special!
9	Pani puri	10.00	Spicy!
10	S. D. i	12.00	T. i

Below the table is a horizontal scrollbar. At the bottom, there are four input fields labeled "ID", "Menu Item", "Price", and "Description". To the right of these fields are five buttons: "Add", "Update", "Delete", "Back", and "Logout".

10. CUSTOMER DETAIL OPERATIONS

10.1. Functionalities:

The Admin can view, add, delete and update the customer details which are automatically populated into the table view from database.

- **Update:** The admin clicks on a row on the table. The row records will render in the text fields. The admin can edit the text fields and click on update button to commit those changes to database and the table view.
- **Delete:** The admin clicks on a row on the table. The row records will render in the text fields. The admin can click on delete button to delete the record from database and the table view.
- **Back:** Back button will redirect admin to go back to the dashboard.
- **Logout:** Logout button will log the admin out of the application and navigate back to login screen.

Restaruant Delivery Application

Customer Detail Operations

ID	NAME	EMAIL	ADDRESS	PHONE
1	abs	abs@gmail.com	500 E 33rd st	31268403
3	Divya	divya@gmail.com	500E 33rd st	31291848
4	Sai	Sai@gmail.com	400E 34 st	31256789
5	praneeth	prani@gmail.com	500E 33rd st	32145678
6	Bhanu	bhanu@yahoo.com	400E ,33rd St	31278965
7	Varshika	varshika@yahoo.c...	300W 34 St	31243212
8	pavan	pavan@gmail.com	500E 33rd St	78965412
9	jbs	jbs@gmail.com	500E 33rd St	98123456
10	Ajay	ajay@gmail.com	36th St,78W	54123456

ID Customer Name Email Address Phone

Update Delete Back Logout

11.ORDER DETAIL OPERATIONS

11.1.Functionalities:

The admin can view and update the orders by changing the status. The orders are automatically populated into the table from the database.

- **Update:** The admin clicks on a row on the table, then selects a new status option and clicks on update to change the status of the order. This change is committed to database and the table view. The customer will be able to track this status.
- **Back:** Back button will redirect admin to go back to the dashboard.
- **Logout:** Logout button will log the admin out of the application and navigate back to login screen.

The screenshot shows a web application window titled "Restaruant Delivery Application". The main heading is "Order Detail Operations". Below the heading is a table with 6 columns: ORD..., CUSTOM..., TOTAL P..., TOTAL PRICE ..., DATE, and STATUS. The table contains 4 rows of data. Below the table is a status update section with a "Status :" label, a dropdown menu, an "Update Order Status" button, and a confirmation message "Order status has been updated for Order #2". At the bottom right are "Back" and "Logout" buttons.

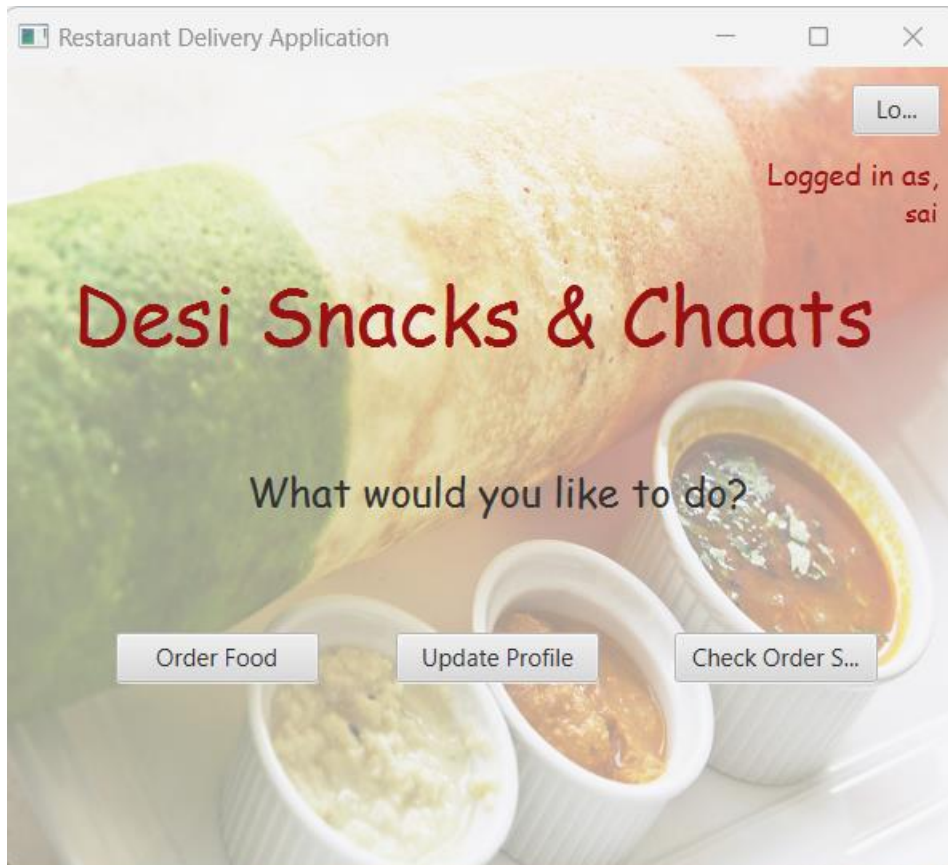
ORD...	CUSTOM...	TOTAL P...	TOTAL PRICE ...	DATE	STATUS
1	1	24.0	26.4	2023-12-07 09:5...	Delivered
2	5	20.0	22.0	2023-12-09 17:5...	Delivered
3	6	28.0	30.8	2023-12-09 17:5...	Order Placed
4	7	32.0	35.2	2023-12-09 17:5...	Order Placed

Status :

Order status has been updated for Order #2

12. CUSTOMER DASHBOARD

The customer dashboard allows the user to select between the various operation possible for the customer- Order food, Update Profile, Check Order status and Logout.



13.ORDER FOOD (ADD TO CART)

The customer can choose menu items from the menu table, select the quantity, and add them to cart one at a time

1. Add to Cart page entry

Restaruant Delivery Application

Dashboard Logout

Logged in as, sai

Add To Cart

MENU ITEM...	MENU ITEM	PRICE	DESCRIPTION
1	pavbaji	12.00	Mumbai favourite dish
2	Bhel Puri	8.00	Medium Spicy!
3	Masala Dosa	10.00	South Special!
4	Dahi Puri	12.09	Chef Special!
5	Rava Idli	5.00	Ghee Topped!
6	Onion Dosa	9.00	Dosa Special!
7	Sev Poori	12.00	Tangy!
8	Pizza Dosa	20.00	Hyderabad special!
9	Pani puri	10.00	Spicy!

Select Quantity

Add To Cart

Remove From Cart

ID	MENU ITEM	QUANTITY
No content in table		

Price 0.0

Tax(%) 10

Total Price 0.0

Place Order

2.Customer adds items to cart. Price, tax and total price with tax can be viewed in the text fields for Price, price with tax below the cart.

Restaruant Delivery Application

Dashboard Logout

Logged in as, sai

Add To Cart

MENU ITEM...	MENU ITEM	PRICE	DESCRIPTION
1	pavbaji	12.00	Mumbai favourite dish
2	Bhel Puri	8.00	Medium Spicy!
3	Masala Dosa	10.00	South Special!
4	Dahi Puri	12.09	Chef Special!
5	Rava Idli	5.00	Ghee Topped!
6	Onion Dosa	9.00	Dosa Special!
7	Sev Poori	12.00	Tangy!
8	Pizza Dosa	20.00	Hyderabad special!
9	Pani puri	10.00	Spicy!

Select Quantity

Add To Cart

Remove From Cart

ID	MENU ITEM	QUANTITY
4	Dahi Puri	2
3	Masala Dosa	1

Price 34.18

Tax(%) 10

Total Price 37.59

Place Order

3.If the customer forgets to select the quantity while adding to cart, message will be prompted to the user.

The screenshot shows a web application window titled "Restaruant Delivery Application". In the top right corner, there are links for "Dashboard" and "Logout", and a status "Logged in as, sai". The main heading is "Add To Cart".

On the left, there is a table with menu items:

MENU ITEM...	MENU ITEM	PRICE	DESCRIPTION
1	pavbaji	12.00	Mumbai favourite dish
2	Bhel Puri	8.00	Medium Spicy!
3	Masala Dosa	10.00	South Special!
4	Dahi Puri	12.09	Chef Special!
5	Rava Idli	5.00	Ghee Topped!
6	Onion Dosa	9.00	Dosa Special!
7	Sev Poori	12.00	Tangy!
8	Pizza Dosa	20.00	Hyderabad special!
9	Pani puri	10.00	Spicy!

Below the table, a red message says "Please select a quantity". To the right of the table are buttons for "Select Quantity" (with a dropdown arrow), "Add To Cart", and "Remove From Cart".

On the right side, there is a table showing items in the cart:

ID	MENU ITEM	QUANTITY
4	Dahi Puri	2
3	Masala Dosa	1

Below the cart table, there are input fields for "Price" (34.18), "Tax(%)" (10), and "Total Price" (37.59), followed by a "Place Order" button.

4.Once the user adds the items to cart and clicks on place order button, a message is prompted on screen that the order has been placed, along with the order number.

This screenshot shows the same "Add To Cart" interface as the previous one, but with a green success message at the bottom: "Order placed successfully! Your order number is #6".

The menu items table on the left is identical. The cart table on the right now includes an additional item:

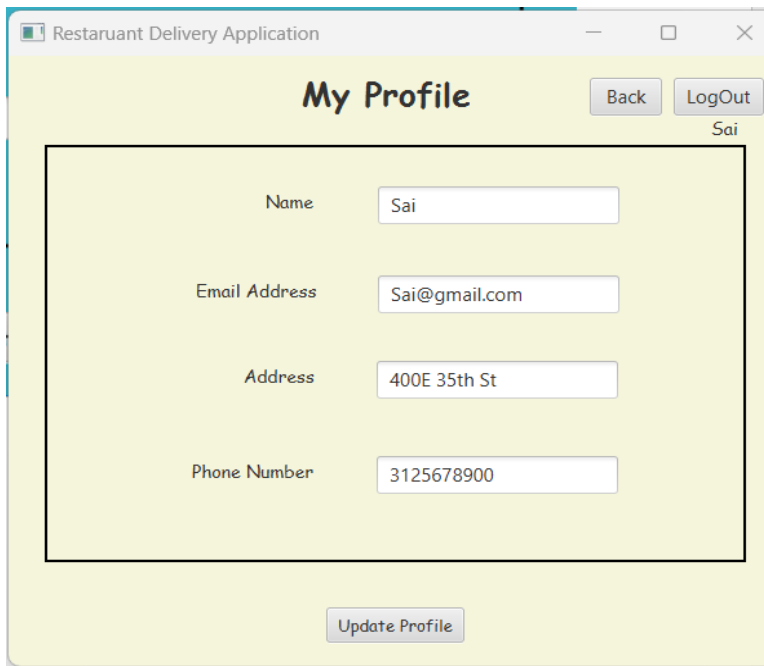
ID	MENU ITEM	QUANTITY
4	Dahi Puri	2
3	Masala Dosa	1
4	Dahi Puri	2

The "Price" field now shows 58.36, and the "Total Price" field shows 64.19. The "Place Order" button remains at the bottom right.

14.UPDATE PROFILE

The customer can update one's profile by clicking on the Update Profile button on the dashboard. The update profile page will auto populate the customers details from database. The user can then just click on any text field and click on the update button to update the profile.

14.1. Update profile entry



Restaruant Delivery Application

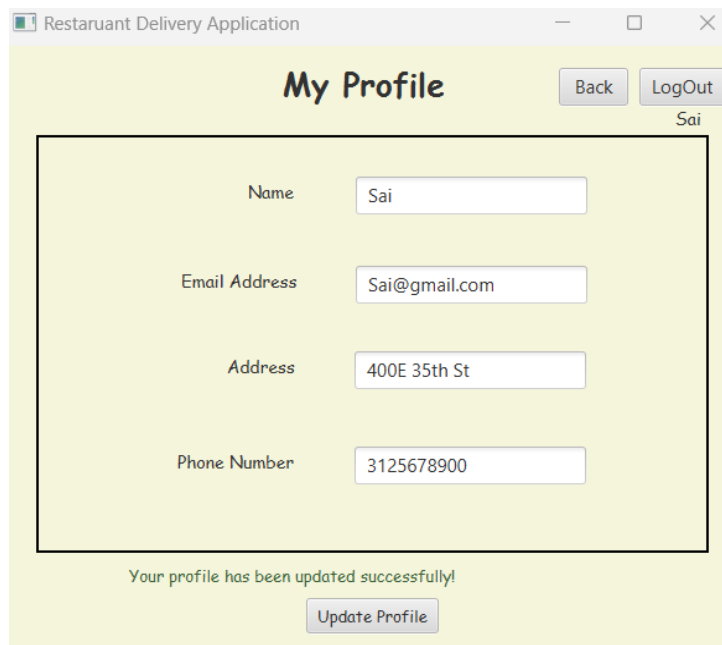
My Profile

Back LogOut Sai

Name	Sai
Email Address	Sai@gmail.com
Address	400E 35th St
Phone Number	3125678900

Update Profile

14.2.Updated profile



Restaruant Delivery Application

My Profile

Back LogOut Sai

Name	Sai
Email Address	Sai@gmail.com
Address	400E 35th St
Phone Number	3125678900

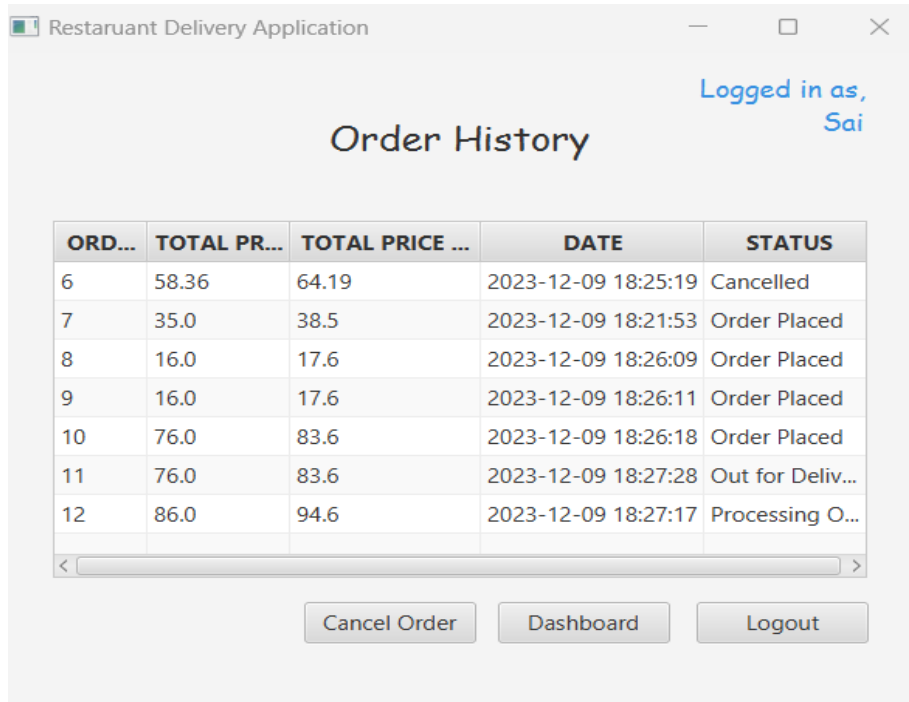
Your profile has been updated successfully!

Update Profile

15.ORDER HISTORY

The customer can track one's current and past orders by clicking on Check order status button on the dashboard.

1.Track order page entry will populate the table with the past and current order along with statuses and data-time when the order was placed.



Restaruant Delivery Application

Logged in as, Sai

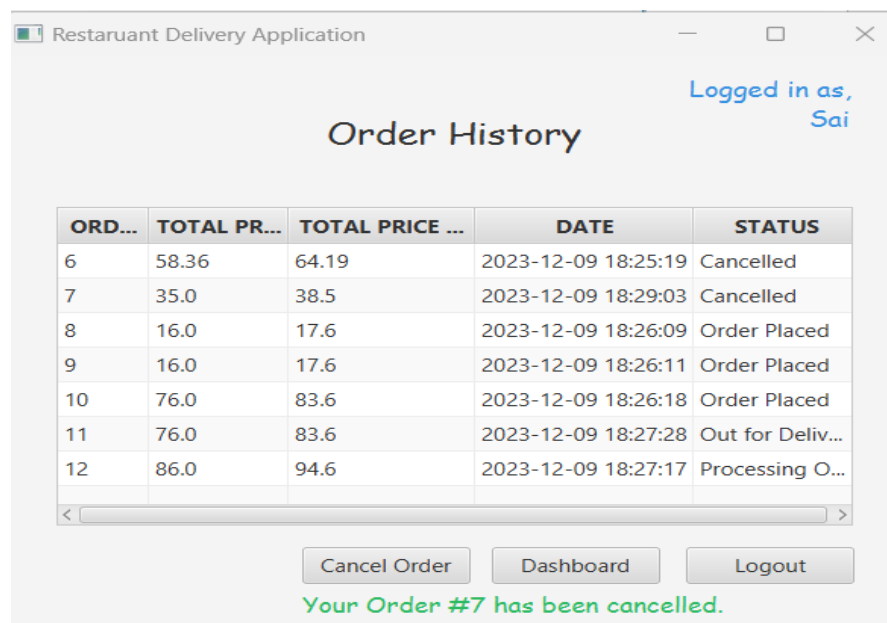
Order History

ORD...	TOTAL PR...	TOTAL PRICE ...	DATE	STATUS
6	58.36	64.19	2023-12-09 18:25:19	Cancelled
7	35.0	38.5	2023-12-09 18:21:53	Order Placed
8	16.0	17.6	2023-12-09 18:26:09	Order Placed
9	16.0	17.6	2023-12-09 18:26:11	Order Placed
10	76.0	83.6	2023-12-09 18:26:18	Order Placed
11	76.0	83.6	2023-12-09 18:27:28	Out for Deliv...
12	86.0	94.6	2023-12-09 18:27:17	Processing O...

< >

Cancel Order Dashboard Logout

2.The customer can choose to cancel the order as long as the order has not yet begun processing.



Restaruant Delivery Application

Logged in as, Sai

Order History

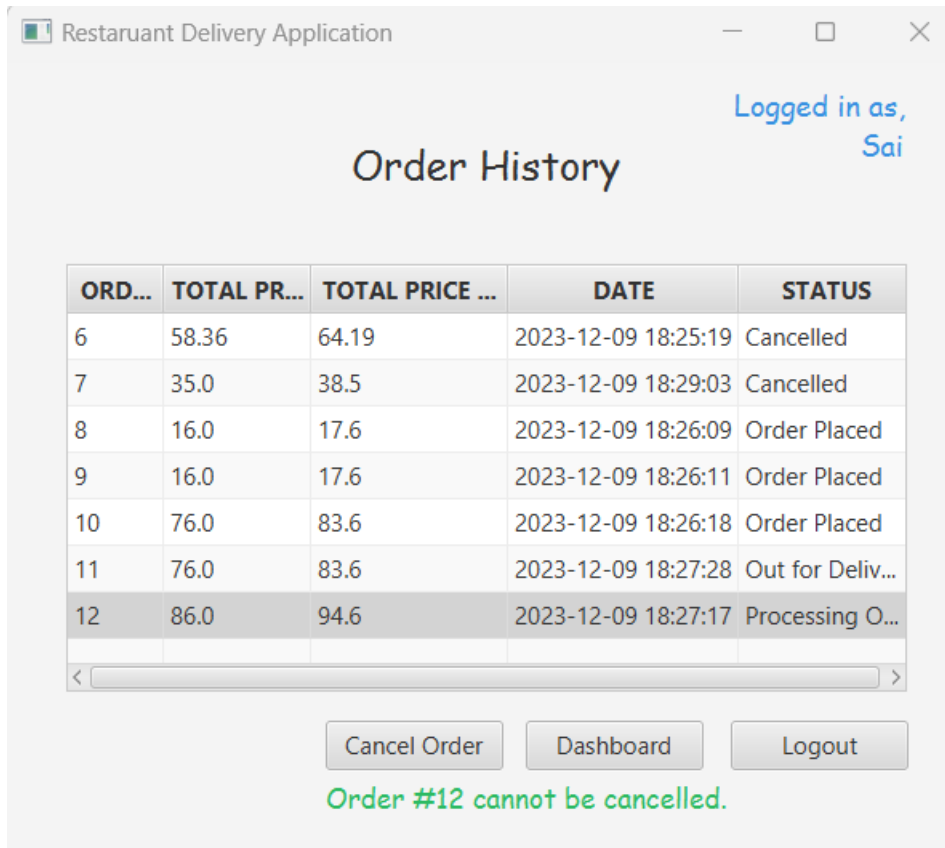
ORD...	TOTAL PR...	TOTAL PRICE ...	DATE	STATUS
6	58.36	64.19	2023-12-09 18:25:19	Cancelled
7	35.0	38.5	2023-12-09 18:29:03	Cancelled
8	16.0	17.6	2023-12-09 18:26:09	Order Placed
9	16.0	17.6	2023-12-09 18:26:11	Order Placed
10	76.0	83.6	2023-12-09 18:26:18	Order Placed
11	76.0	83.6	2023-12-09 18:27:28	Out for Deliv...
12	86.0	94.6	2023-12-09 18:27:17	Processing O...

< >

Cancel Order Dashboard Logout

Your Order #7 has been cancelled.

3.The customer cannot cancel order with status other than “Order Placed”



Restaruant Delivery Application

Logged in as, Sai

Order History

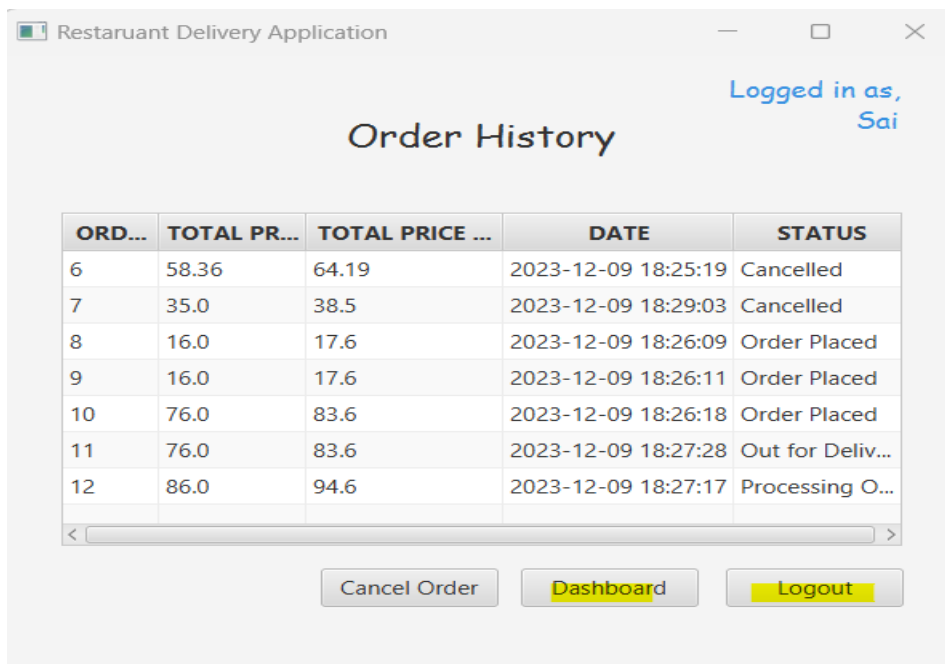
ORD...	TOTAL PR...	TOTAL PRICE ...	DATE	STATUS
6	58.36	64.19	2023-12-09 18:25:19	Cancelled
7	35.0	38.5	2023-12-09 18:29:03	Cancelled
8	16.0	17.6	2023-12-09 18:26:09	Order Placed
9	16.0	17.6	2023-12-09 18:26:11	Order Placed
10	76.0	83.6	2023-12-09 18:26:18	Order Placed
11	76.0	83.6	2023-12-09 18:27:28	Out for Deliv...
12	86.0	94.6	2023-12-09 18:27:17	Processing O...

< >

Cancel Order Dashboard Logout

Order #12 cannot be cancelled.

4.The customer has options to navigate back to dashboard or logout of the application.



Restaruant Delivery Application

Logged in as, Sai

Order History

ORD...	TOTAL PR...	TOTAL PRICE ...	DATE	STATUS
6	58.36	64.19	2023-12-09 18:25:19	Cancelled
7	35.0	38.5	2023-12-09 18:29:03	Cancelled
8	16.0	17.6	2023-12-09 18:26:09	Order Placed
9	16.0	17.6	2023-12-09 18:26:11	Order Placed
10	76.0	83.6	2023-12-09 18:26:18	Order Placed
11	76.0	83.6	2023-12-09 18:27:28	Out for Deliv...
12	86.0	94.6	2023-12-09 18:27:17	Processing O...

< >

Cancel Order Dashboard Logout

16.DATABASE TABLES

1. [fooditemdb_11](#)
2. [OROS_UserDetailDB_02](#)
3. [OROS_OrderDB_01](#)

17.EXCEPTION HANDLING

One of the most important aspects is error trapping and error handling which is incorporated in the Restaurant Delivery application. Maximum Exception Handling has been covered above. In this application exception handling is covered for each field which will be filled or left blank.

18.EXTRA CREDIT

1) Git Hub Links:

Git Repo Links: <https://github.com/batla9/ITMD510---FINAL>

Git Commits : <https://github.com/batla9/ITMD510---FINAL/commits?author=batla9>

2) UML, ERD Diagram:

We have created UML diagram for the entire project and Entity-Relationship(ER) diagram for extra credit. Please refer above for the diagrams.

3) Jar Creation:

We have created an executable jar for extra credit, that will be added in zip folder.