

A PROJECT REPORT ON  
**MESS  
CONNECT**  
SUBMITTED IN PARTIAL FULFILLMENT OF  
**DIPLOMA IN ADVANCED COMPUTING (PG-DAC)**

SUBMITTED BY  
230340120041 Ayushi Malviya  
230340120045 Bharpte Parikshit Yogeshwar  
230340120048 Chandan Raghunath Bile  
230340120203 Sourabh Duryodhan Khade  
230340120218 Ugale Vidyas Pandit

UNDER THE GUIDANCE OF  
**MR. SWARAJ**

AT



CENTER FOR DEVELOPMENT OF  
**ADVANCED COMPUTING-DAC, PUNE**

## **ACKNOWLEDGEMENT**

The project **Mess Connect** was a great learning experience for us and we are submitting this work to the Advanced Computing Training School (C-DAC ACTS, Pune). We would like to express our heartfelt gratitude to all those who contributed to the successful completion of this project. Our sincere thanks go to our Project Guide, Mr. Swaraj Chaudhari, for his guidance, support, and invaluable insights that steered us in the right direction. We are also thankful to our teammates for their collaborative efforts and unwavering commitment throughout the project.

Additionally, we extend our appreciation to Ms. Priyanka Ranade and Center for Development of Advanced Computing-DAC, Pune for providing the necessary resources and environment that facilitated the execution of this project. Lastly, we would like to acknowledge the support of our families and friends for their encouragement and understanding during this endeavor. This project wouldn't have been possible without the collective efforts of all these individuals, and for that, We are truly thankful.

From,

230340120041 Ayushi Malviya

230340120045 Bharpte Parikshit Yogeshwar

230340120048 Chandan Raghunath Bile

230340120203 Sourabh Duryodhan Khade

230340120218 Ugale Vidyas Pandit

## TABLE OF CONTENTS

1. INTRODUCTION.....	6
2. PRODUCT OVERVIEW AND SUMMARY.....	8
2.1. Purpose	
2.2. Scope	
2.3. User Classes and Characteristics	
2.4. Technologies Used	
3. REQUIREMENTS FULFILLED.....	10
3.1. Functional Requirements	
3.2. Non-Functional Requirements	
4. PROJECT DESIGN.....	11
4.1. ER-Diagram	
4.2. Use Case Diagram	
4.3. Functional Decomposition Diagram	
4.4. Database Designs	
5. PROJECT SCREENSHOTS.....	20

6. TESTING.....	30
7. CONCLUSION.....	33

## **ABSTRACT**

In the present situation, we have visited numerous messes and canteens and have observed that there's no way to book our meals before time or be able to access menu, prices without physically being in the respective mess itself. To provide a digital solution to these problems such that anyone who is visiting any food service such as mess or canteen can access the menu, place order without physically being there beforehand we have developed a web application called Mess Connect.

Mess Connect is an innovative solution set to transform how mess facilities are managed. The platform is built using React.JS for the easy-to-use interface users will interact with, and J2EE to power the behind-the-scenes operations. Our secret sauce for storing and organizing data is MySQL, plus, we have partnered with safe payment tools for hassle-free transactions, and administrators get a powerful control center powered by J2EE. Mess Connect merges smart tech with user-friendly design, making mess management smoother and more effective than ever before.

## 1. INTRODUCTION

---

In an era characterized by rapid technological advancements and evolving lifestyles, the management of essential services has become a paramount concern. One such service that holds significant importance is mess facilities, which cater to the daily dietary needs of students, staff, and faculty members. Recognizing the potential to revolutionize traditional mess management systems, our project, titled "Mess Connect," emerges as a dynamic and comprehensive solution aimed at transforming how mess culinary experiences are orchestrated and enjoyed.

This integrated platform will help the users to save data, time and money. Considering the traditional mess and canteens near us, we usually visit the place, get in line if crowded, find the menu, find a table, wait for payment depending on staff availability, number of customers, etc. And we all know there are a large number of people who usually go to mess and canteens for their regular meals, some examples are students living away from family, working professionals living in a different city than their hometown, etc. As these communities grow larger and more diverse, the antiquated models of mess management have struggled to adapt effectively. Manual booking systems, paper-based menus, and fragmented communication have led to inefficiencies, dissatisfaction, and wastage of resources. Our project seeks to bridge this gap by introducing a contemporary, technology-driven approach to mess management.

"Mess Connect" is designed to revolutionize the traditional campus dining experience by integrating smart technology, user-centric design, and efficient management. This innovative platform provides a one-stop solution to manage meals, subscriptions, modifications, and payments, all through a user-friendly web interface. From the outset, the project envisions a seamless and convenient experience for all stakeholders, including students, mess administrators, and kitchen staff.

### Key Features:

**User-Friendly Interface:** The project boasts a sleek and intuitive web interface developed using React.JS. This ensures a smooth and engaging experience for users, regardless of their technological proficiency.

**Customizable Meal Plans:** Users can effortlessly customize their meal plans according to their taste preferences and schedules. The platform offers options like different types of thalis, and number of add ons, granting flexibility to cater to individual needs.

**Efficient Modifications and Cancellations:** The traditional challenges of modifying or canceling meal orders are eradicated with the platform's user-friendly approach.

Changes can be made effortlessly, reducing unnecessary wastage and promoting sustainability.

**Streamlined Payments:** Secure and hassle-free payment options are integrated, the application also provides virtual wallet to individual users eliminating the need for cash frequent transactions and minimizing administrative burdens.

**Centralized Administration:** Administrators benefit from a robust control center powered by J2EE, offering insights into user preferences, consumption patterns, and payment records. This empowers efficient management and decision-making.

**Data Security:** The heart of the platform lies in the MySQL database, ensuring the safe storage and organization of user data, meal preferences, and transaction history.

In a world that is increasingly interconnected and reliant on technological innovations, it is imperative that institutions adapt their services to meet contemporary standards. The "Mess Connect" project underscores the potential for technological integration to redefine daily culinary experiences.

## 2. PRODUCT OVERVIEW AND SUMMARY

### 2.1. PURPOSE

The primary purpose of the "Mess Connect" project is to revolutionize the traditional approach to mess and canteen management. By leveraging the power of technology and user-centric design, the project aims to create a seamless and efficient platform that enhances the dining experience for users like students, working professionals, staff at place, and other members.

### 2.2. SCOPE

The scope of the "Mess Connect" web application project is comprehensive, aiming to encompass all aspects of modernizing and streamlining mess management. The project's scope includes the development and implementation of a user-friendly and technologically advanced platform that addresses various challenges associated with traditional mess management systems.

- Development of an intuitive and visually appealing user interface using React.JS, ensuring accessibility and ease of use for a wide range of users.
- Enabling users to easily cancel or reschedule meals, reducing food wastage and optimizing resource allocation.
- Ensuring smooth transactions, confidentiality of financial data, and providing easy payment options using application integrated wallet system.
- Developing a powerful control center for administrators, powered by J2EE, to manage user accounts, meal preferences, consumption patterns, and payment records.

- Implementing a robust MySQL database to securely store and manage user profiles, meal selections, payment information, and other relevant data.
- Prioritizing data security and privacy, ensuring compliance with relevant regulations.
- Designing the application architecture to accommodate potential future enhancements, such as integration with smart devices or analytics tools.
- Ensuring the scalability of the system to handle increasing user numbers and changing requirements.

### 2.3. USER CLASSES AND CHARACTERISTICS

In the application there is Admin and customer. Admin can add new items and update the menu. Customers can register on the application, place an order, access the menu, check their wallet balance, and add money to the wallet.

### 2.4. TECHNOLOGIES USED

#### i. FRONT END

- React Js
- JavaScript
- HTML 5
- CSS
- Bootstrap

#### ii. BACK END

- Spring Boot
- Spring Data JPA
- Spring Security
- Spring REST

#### iii. DATABASE MANAGEMENT SYSTEM

- MySQL

## 3. REQUIREMENTS

### 3.1. FUNCTIONAL REQUIREMENTS

Following are the functional requirements fulfilled by our project:

- Customers can browse through the application.
- Customers who like the services provided then can register.
- Customers can add money in their wallet and after a meal the amount will be automatically deducted from the wallet.
- Customers can update their details, if there is any change.
- Admins can manage Customers, menu, etc.
- Admins can show the offers available.
- Admin can change the menu, add new items, add price accordingly.
- Admins can delete items if required.

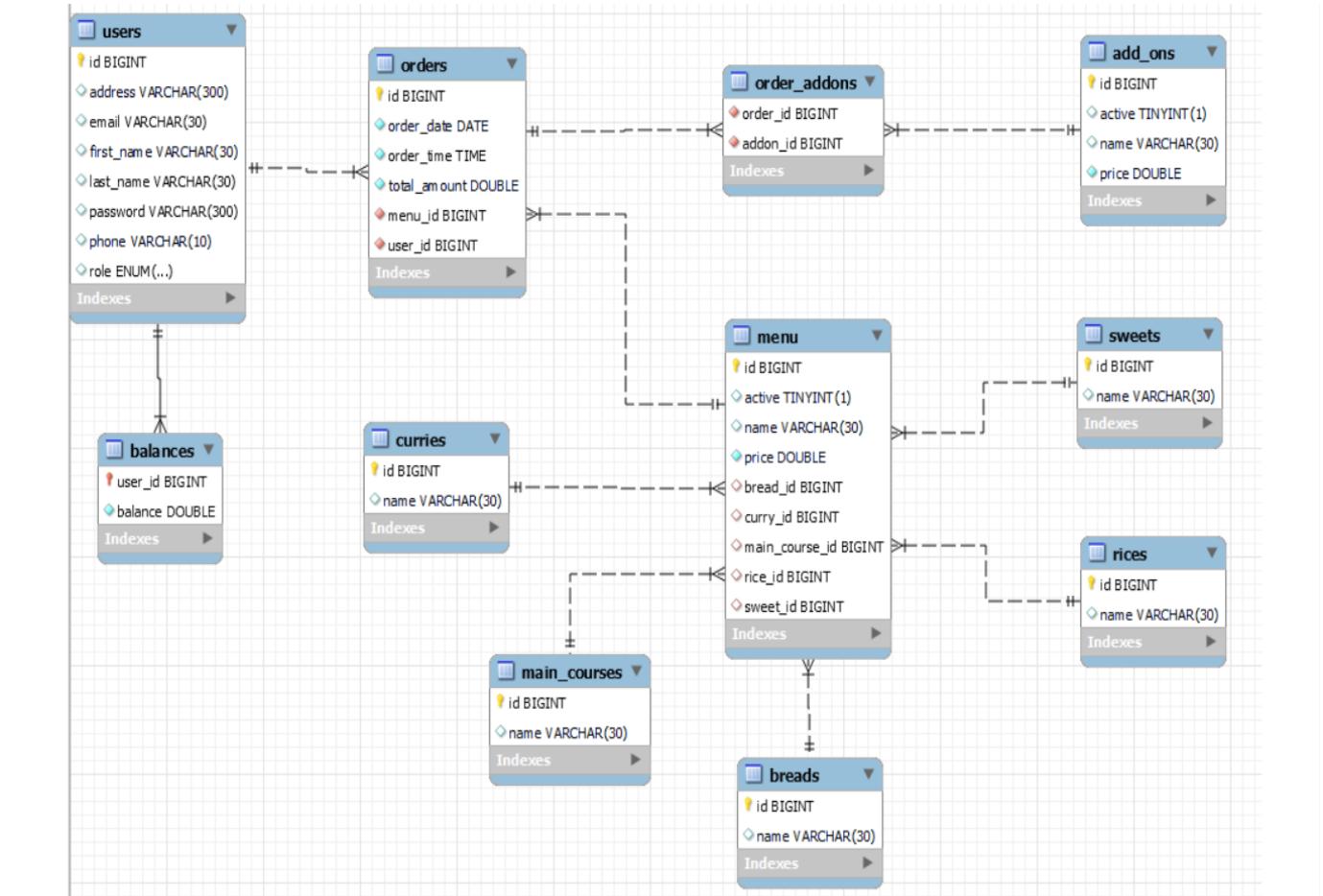
### 3.2. NON-FUNCTIONAL REQUIREMENTS

Following are the non-functional requirements fulfilled by our project:

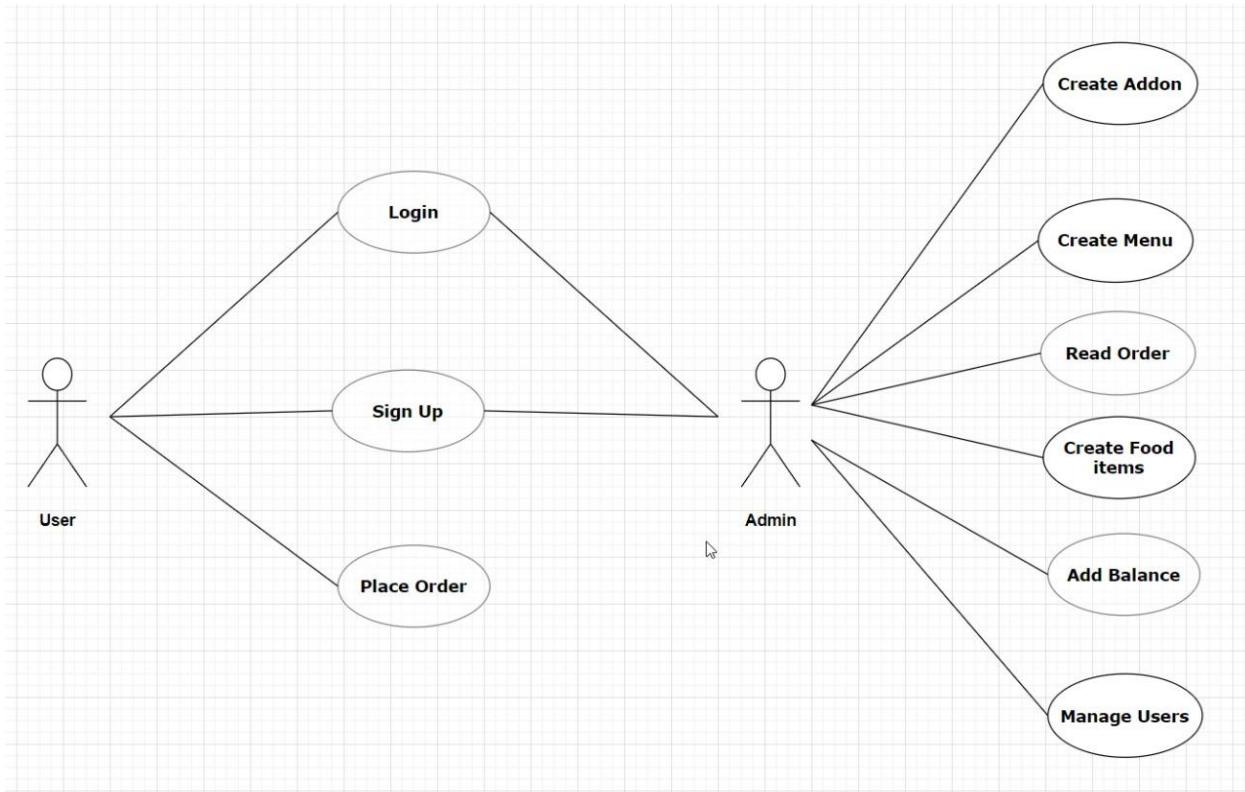
- Since the application uses lightweight and established software components that are also cross-platform, it is remarkably performant and has good support for every operating system.
- The use of JavaScript with React JS for frontend and Spring Boot, Spring Data JPA and Spring Security for back end delivers quick response times to admins and user.
- Card-style UI and well-known icons and symbols used throughout the application provides a consistent theme and user-friendly interface that anyone can grasp easily, even without a technical background.

## 4. PROJECT DESIGN

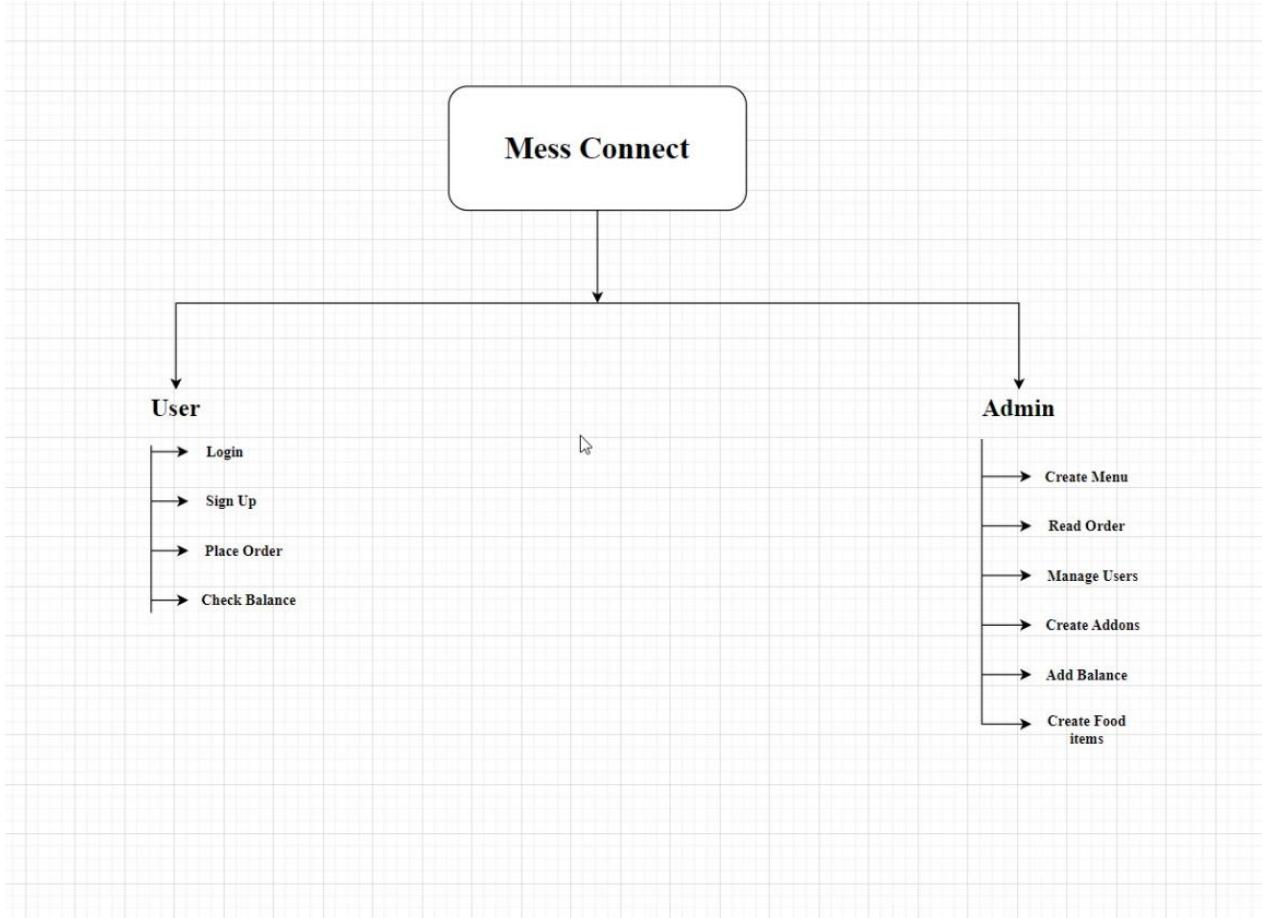
### 4.1. ER-Diagram



## 4.2. Use Case Diagram



#### 4.3. Functional Decomposition Diagram



## 4.4. Database Designs

The following tables depict the database design used for “MESS CONNECT” application.

### A. User Table

The screenshot shows the MySQL Workbench interface with the "users" table selected. The results grid displays 11 rows of user data with columns: id, address, email, first\_name, last\_name, password, phone, and role. The "Role" column shows values like ROLE\_CUSTOMER, ROLE\_ADMIN, and ROLE\_ADMIN. The "Output" pane at the bottom shows the SQL query and its execution details.

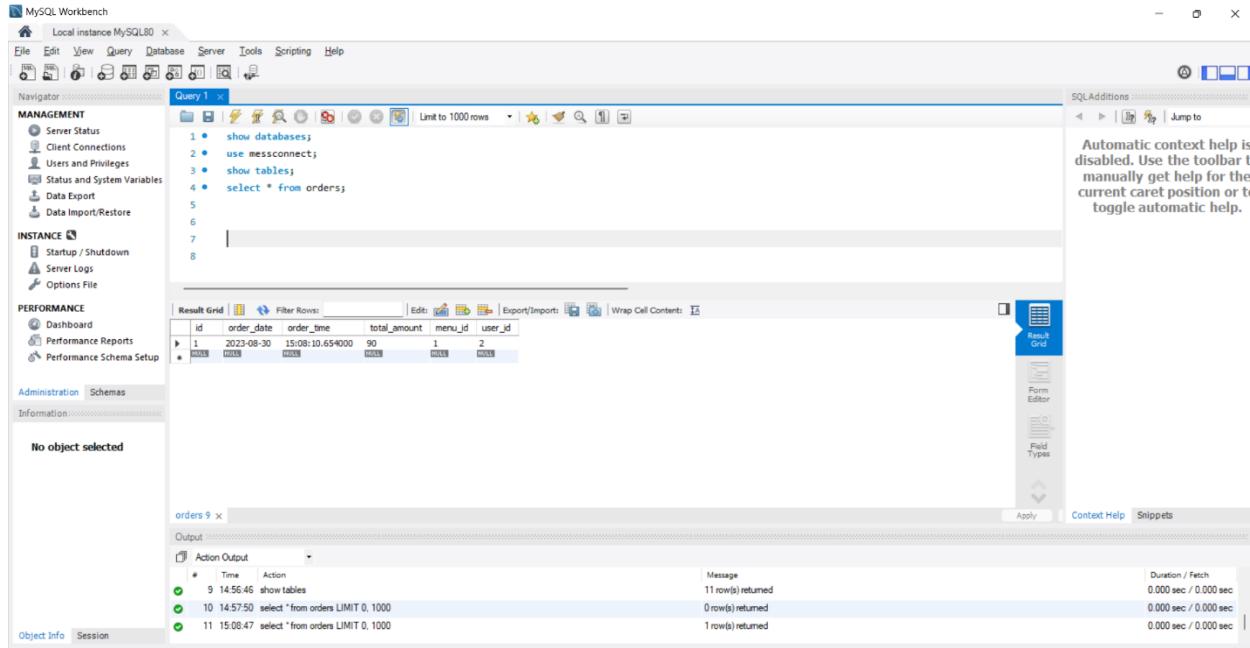
1	Pune	sourabh@gmail.com	sourabh	lhadre	\$2a\$10\$5z4o6lBz5t28kC2QO0eIve6tlQ4...	1234567890	ROLE_CUSTOMER
2	Nashik	vidya@gmail.com	vidya	ugale	\$2a\$10\$40KKhBZQRfGMPY7z2P...mg8hOnLs...	1234567890	ROLE_CUSTOMER
3	Mumbai	chandan@gmail.com	chandan	bile	\$2a\$10\$3379VUKevhAP13rEcuklyNBy5...	1234567890	ROLE_ADMIN
4	Washim	parkshit@gmail.com	parkshit	bharapte	\$2a\$10\$RhlJxR38lFcPRD0WqjGetIryhzb...	1234567890	ROLE_CUSTOMER
5	MP	ayush@gmail.com	ayush	malviya	\$2a\$10\$UcTpC3VWLAAWvNR/CeyfcZbAO...	1234567890	ROLE_ADMIN
6	Nashik	tejas@gmail.com	Tejas	Avhad	\$2a\$10\$evbW2MUEBhcdMFU9kP7.eJF0Jdhf...	1234567890	ROLE_CUSTOMER
7							
8							
9							
10							
11							

### B. Menu

The screenshot shows the MySQL Workbench interface with the "menu" table selected. The results grid displays 4 rows of menu data with columns: id, active, name, price, bread\_id, curry\_id, main\_course\_id, rice\_id, and sweet\_id. The "Output" pane at the bottom shows the SQL query and its execution details.

1	1	veg thali 1	70	1	2	1	2	1
2	0	checken thali	100	3	2	2	2	1
3	0	veg thali 2	70	2	2	1	2	3
4	0	veg thali 3	70	2	3	3	2	2

## C. Orders



The screenshot shows the MySQL Workbench interface with the 'orders' table selected. The table has columns: id, order\_date, order\_time, total\_amount, menu\_id, and user\_id. One row is displayed with values: id=1, order\_date='2023-08-30', order\_time='15:08:10.654000', total\_amount=90, menu\_id=2, user\_id=2.

```

MySQL Workbench
Local instance MySQL80 X
File Edit View Query Database Server Tools Scripting Help
Navigator MANAGEMENT INSTANCE PERFORMANCE Administration Schemas Information
No object selected

Query 1
1 • show databases;
2 • use messconnect;
3 • show tables;
4 • select * from orders;
5
6
7
8

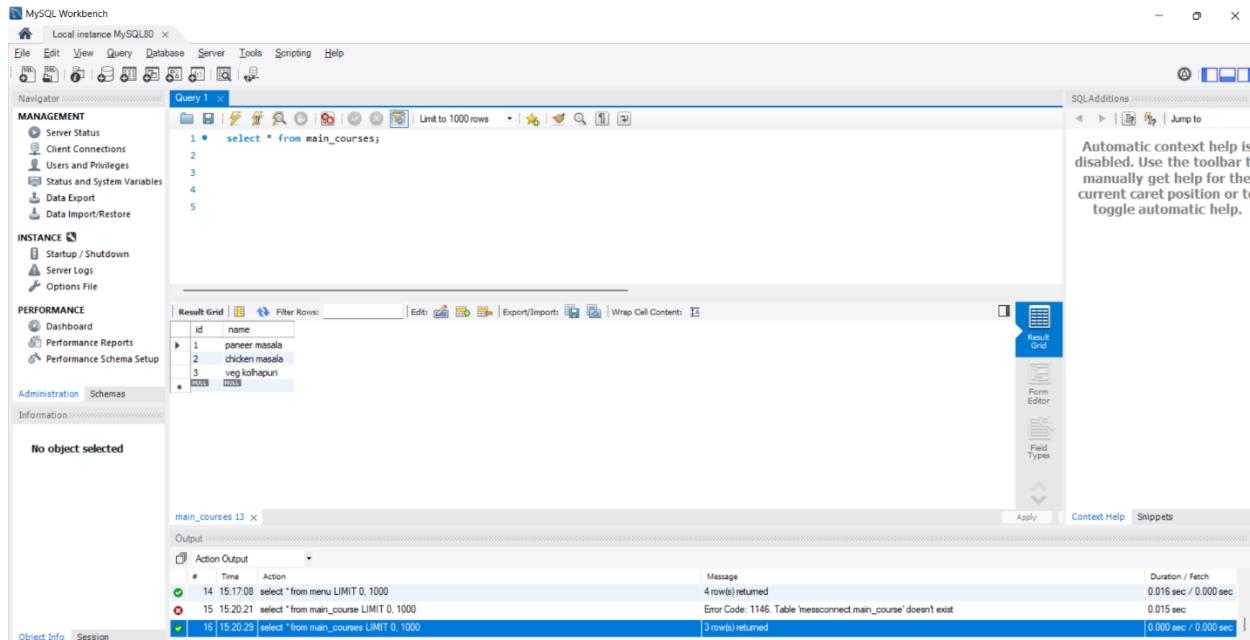
Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |
id order_date order_time total_amount menu_id user_id
1 2023-08-30 15:08:10.654000 90 2 2

SQLAdditions
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

orders 9
Output
Action Output
# Time Action
9 14:56:46 show tables
10 14:57:50 select * from orders LIMIT 0, 1000
11 15:08:47 select * from orders LIMIT 0, 1000
Message Duration / Fetch
11 row(s) returned 0.000 sec / 0.000 sec
0 row(s) returned 0.000 sec / 0.000 sec
1 row(s) returned 0.000 sec / 0.000 sec
Object Info Session

```

## D. Main Courses



The screenshot shows the MySQL Workbench interface with the 'main\_courses' table selected. The table has columns: id and name. Three rows are displayed with values: id=1, name='paneer masala'; id=2, name='chicken masala'; id=3, name='veg kohapuri'.

```

MySQL Workbench
Local instance MySQL80 X
File Edit View Query Database Server Tools Scripting Help
Navigator MANAGEMENT INSTANCE PERFORMANCE Administration Schemas Information
No object selected

Query 1
1 • select * from main_courses;
2
3
4
5

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |
id name
1 paneer masala
2 chicken masala
3 veg kohapuri

SQLAdditions
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

main_courses 13
Output
Action Output
# Time Action
14 15:17:08 select * from menu LIMIT 0, 1000
15 15:20:21 select * from main_course LIMIT 0, 1000
16 16:20:25 select * from main_courses LIMIT 0, 1000
Message Duration / Fetch
4 row(s) returned 0.016 sec / 0.000 sec
Error Code: 1146. Table 'messconnect.main_course' doesn't exist 0.015 sec
3 row(s) returned 0.000 sec / 0.000 sec
Object Info Session

```

## E. Add-ons

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the 'MANAGEMENT' section with options like Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, and Data Import/Restore.
- INSTANCE:** Shows Startup / Shutdown, Server Logs, and Options File.
- PERFORMANCE:** Shows Dashboard, Performance Reports, and Performance Schema Setup.
- Administration:** Selected, Schemas, Information.
- No object selected**
- Query Editor:** Title: Query 1, SQL code: 

```
1 • select * from add_ons;
```

, Result Grid (3 rows): 

ID	Active	Name	Price
1	1	dhru	10
2	1	lasse	20
3	0	tak	10

.
- Output:** Action Output (3 rows):
 

#	Time	Action	Message	Duration / Fetch
15	15:20:21	select * from main_course LIMIT 0, 1000	Error Code: 1146. Table 'messconnect.main_course' doesn't exist	0.015 sec
16	15:20:29	select * from main_courses LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
17	15:23:06	select * from add_ons LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
- Object Info:** Session

## F. Bread

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the 'MANAGEMENT' section with options like Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, and Data Import/Restore.
- INSTANCE:** Shows Startup / Shutdown, Server Logs, and Options File.
- PERFORMANCE:** Shows Dashboard, Performance Reports, and Performance Schema Setup.
- Administration:** Selected, Schemas, Information.
- No object selected**
- Query Editor:** Title: Query 1, SQL code: 

```
1 • select * from breads;
```

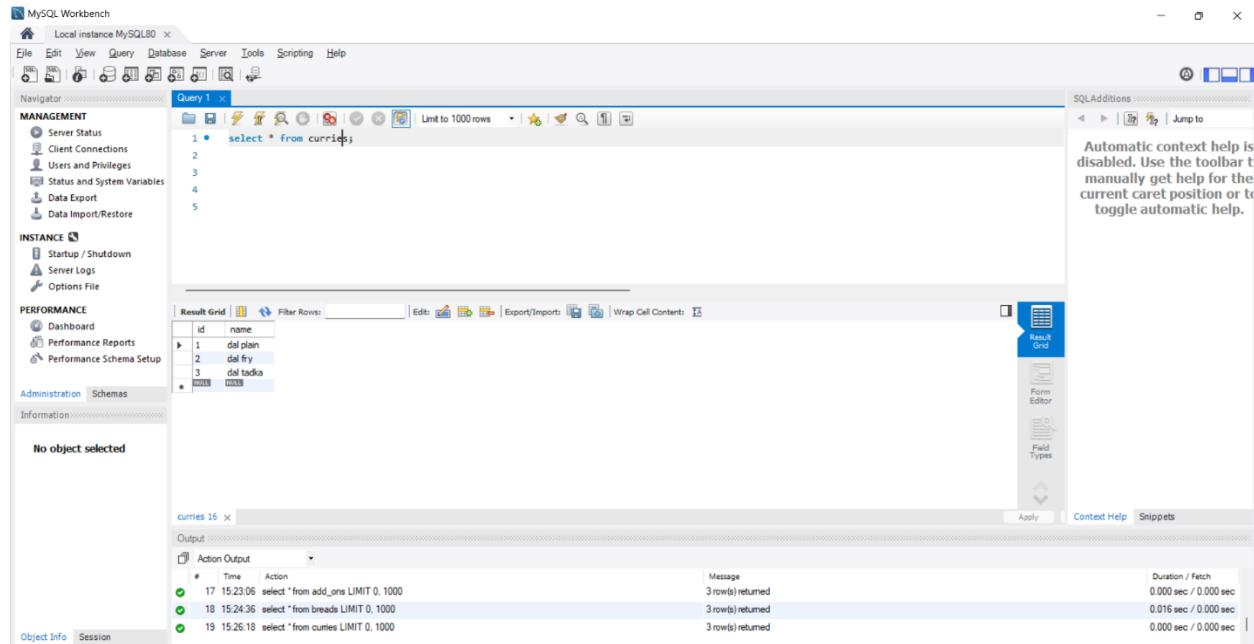
, Result Grid (3 rows): 

ID	Name
1	chapati
2	roti
3	bhakari

.
- Output:** Action Output (3 rows):
 

#	Time	Action	Message	Duration / Fetch
16	15:20:29	select * from main_courses LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
17	15:23:06	select * from add_ons LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
18	15:24:36	select * from breads LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
- Object Info:** Session

## G. Curries



The screenshot shows the MySQL Workbench interface with a query editor containing the following SQL code:

```
1 • select * from curries;
```

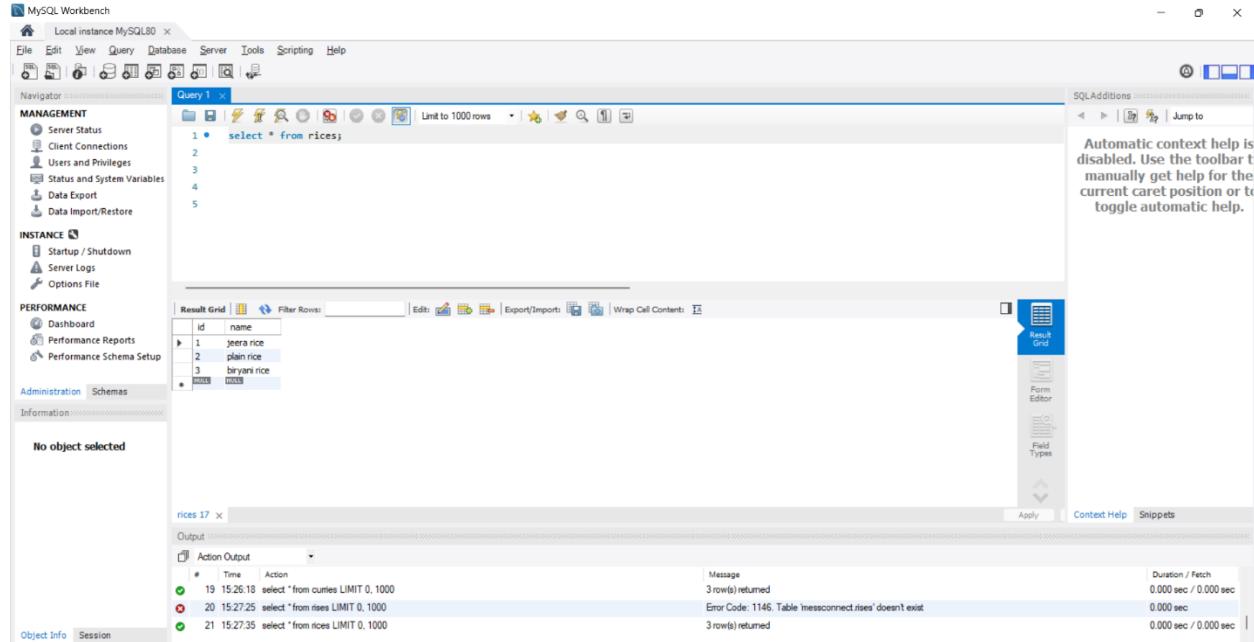
The results grid displays the following data:

1	dal plan	
2	dal fry	
3	dal tadka	
•	NULL	NULL

The output pane shows the execution log for the query:

Action	Time	Message	Duration / Fetch
select * from add_ons LIMIT 0, 1000	17 15:23:06	3 row(s) returned	0.000 sec / 0.000 sec
select * from breads LIMIT 0, 1000	18 15:24:36	3 row(s) returned	0.016 sec / 0.000 sec
select * from curries LIMIT 0, 1000	19 15:25:18	3 row(s) returned	0.000 sec / 0.000 sec

## H. Rices



The screenshot shows the MySQL Workbench interface with a query editor containing the following SQL code:

```
1 • select * from rices;
```

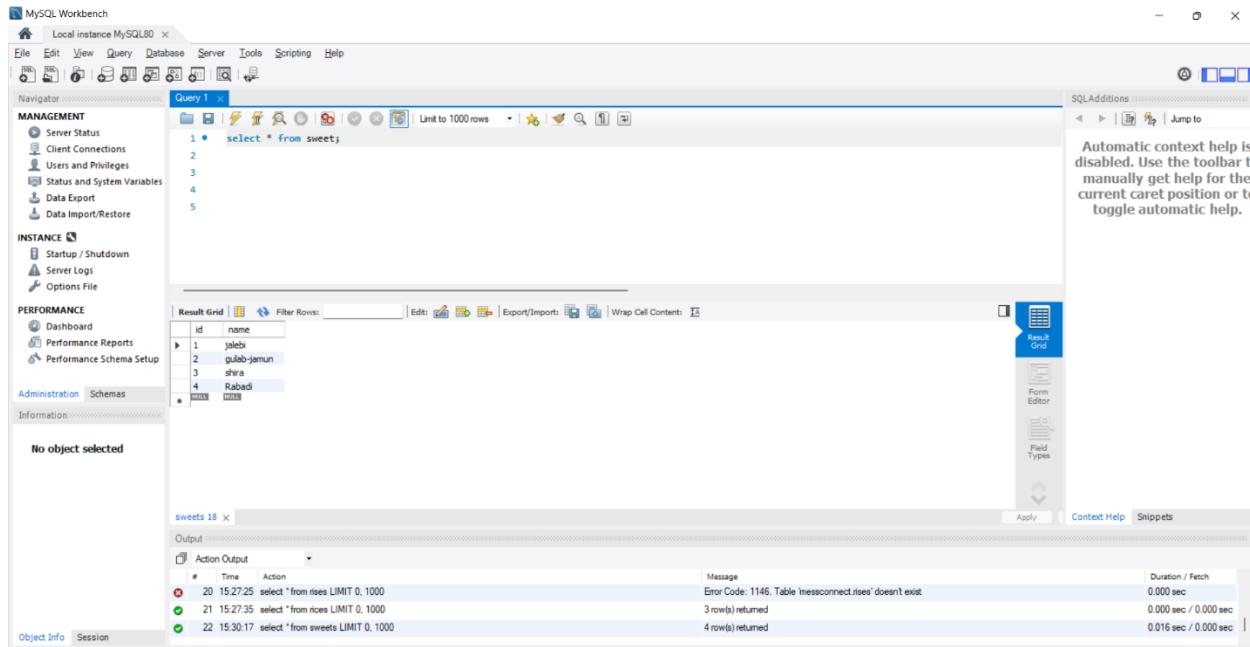
The results grid displays the following data:

1	jeera rice	
2	plain rice	
3	biryani rice	
•	NULL	NULL

The output pane shows the execution log for the query:

Action	Time	Message	Duration / Fetch
select * from curries LIMIT 0, 1000	19 15:26:18	3 row(s) returned	0.000 sec / 0.000 sec
select * from rices LIMIT 0, 1000	20 15:27:25	Error Code: 1146. Table 'messconnect.rices' doesn't exist	0.000 sec
select * from rices LIMIT 0, 1000	21 15:27:35	3 row(s) returned	0.000 sec / 0.000 sec

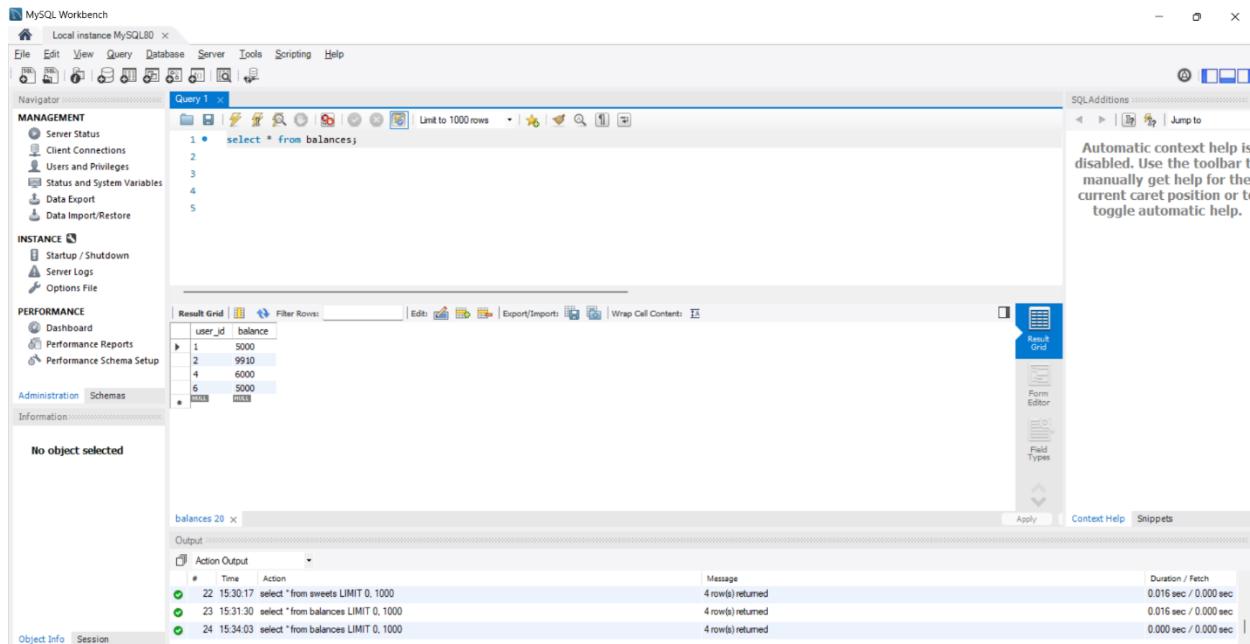
## I. Sweets



The screenshot shows the MySQL Workbench interface with the 'sweets' table selected. The table has two columns: 'id' and 'name'. The data is as follows:

id	name
1	jalebi
2	gulab-jamun
3	shira
4	Rabadi
	MILL
	MILL

## J. Balances



The screenshot shows the MySQL Workbench interface with the 'balances' table selected. The table has two columns: 'user\_id' and 'balance'. The data is as follows:

user_id	balance
1	5000
2	9910
4	6000
6	5000
	MILL
	MILL

## K. Order Addons

The screenshot shows the MySQL Workbench interface with the following details:

- Query Editor:** A window titled "Query 1" containing the SQL command:
 

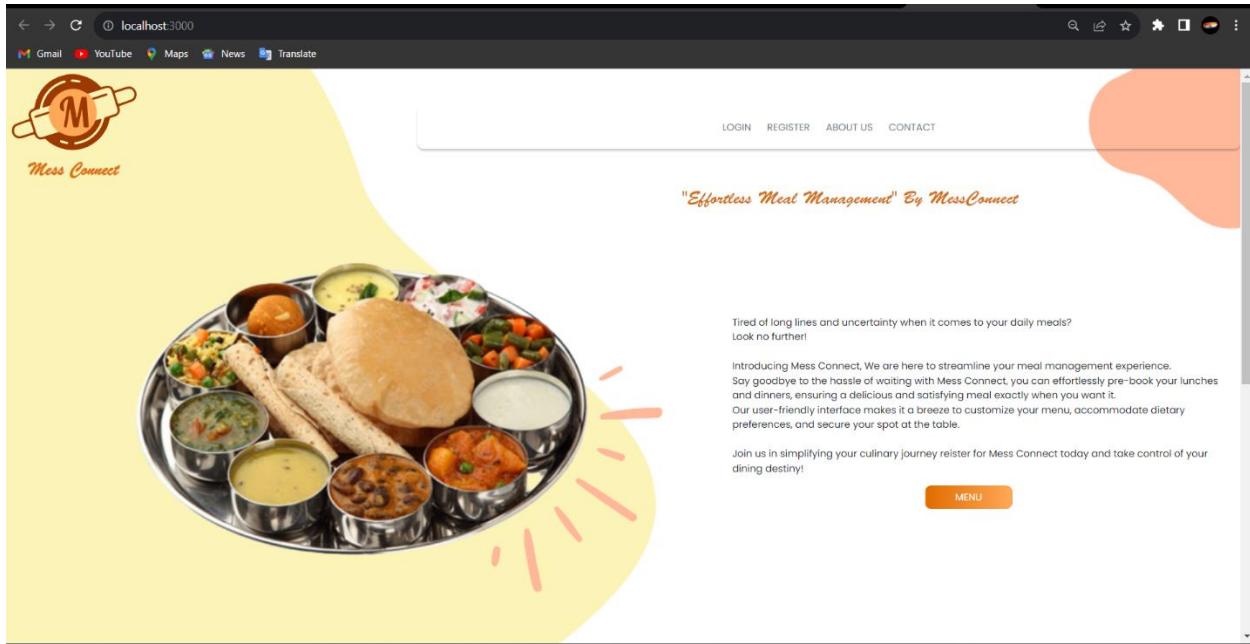
```
1 • select * from order_addons;
```
- Result Grid:** A table showing the results of the query:
 

order_id	addon_id
1	2
- Output Window:** A window titled "order\_addons 22" showing the execution history of the query:
 

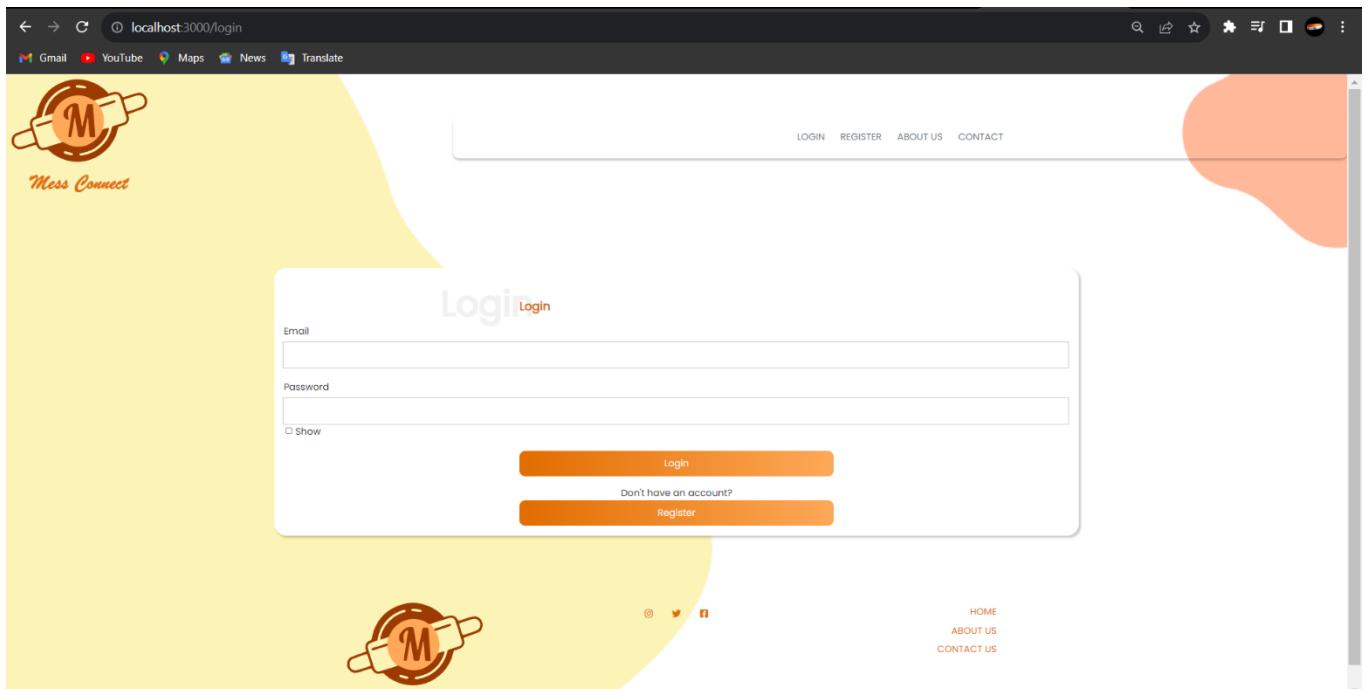
Action Output	Time	Action	Message	Duration / Fetch
24	15:34:03	select * from balances LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
25	15:36:30	select * from add_ons LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
26	15:36:48	select * from order_addons LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

## 5. PROJECT SCREENSHOTS

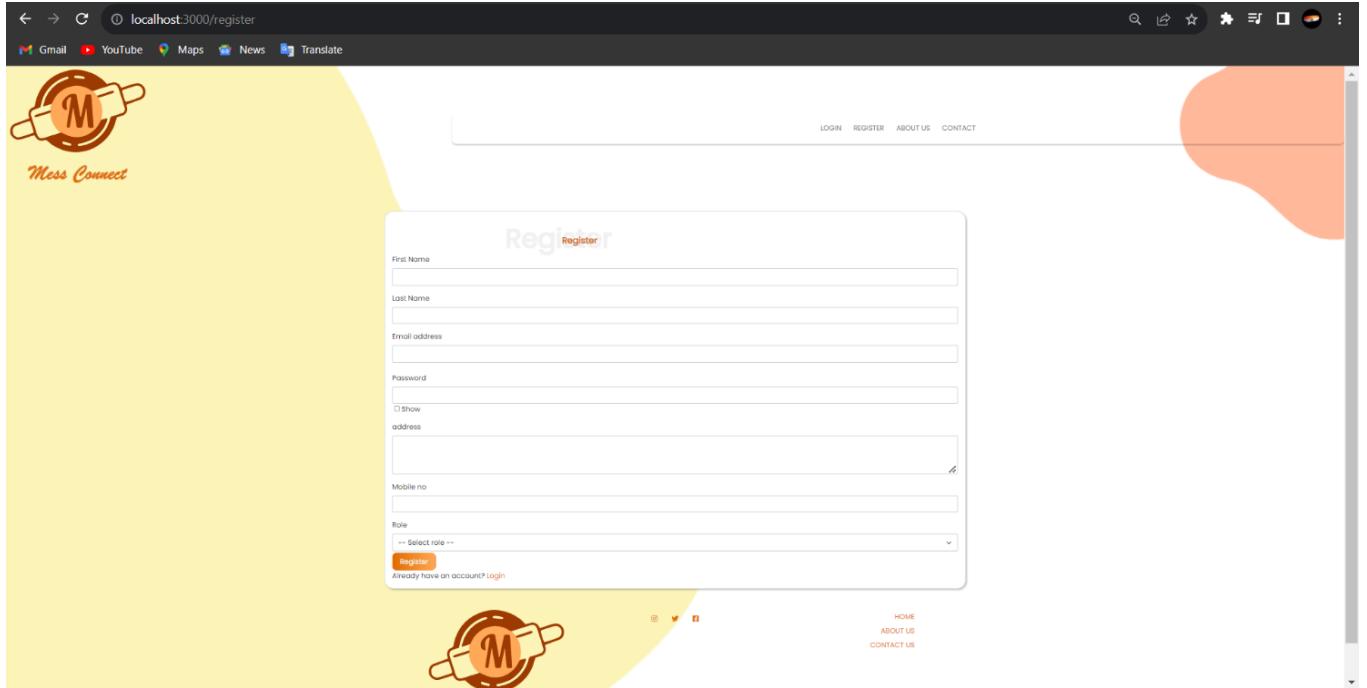
### 1. Home Page



### 2. Login Page

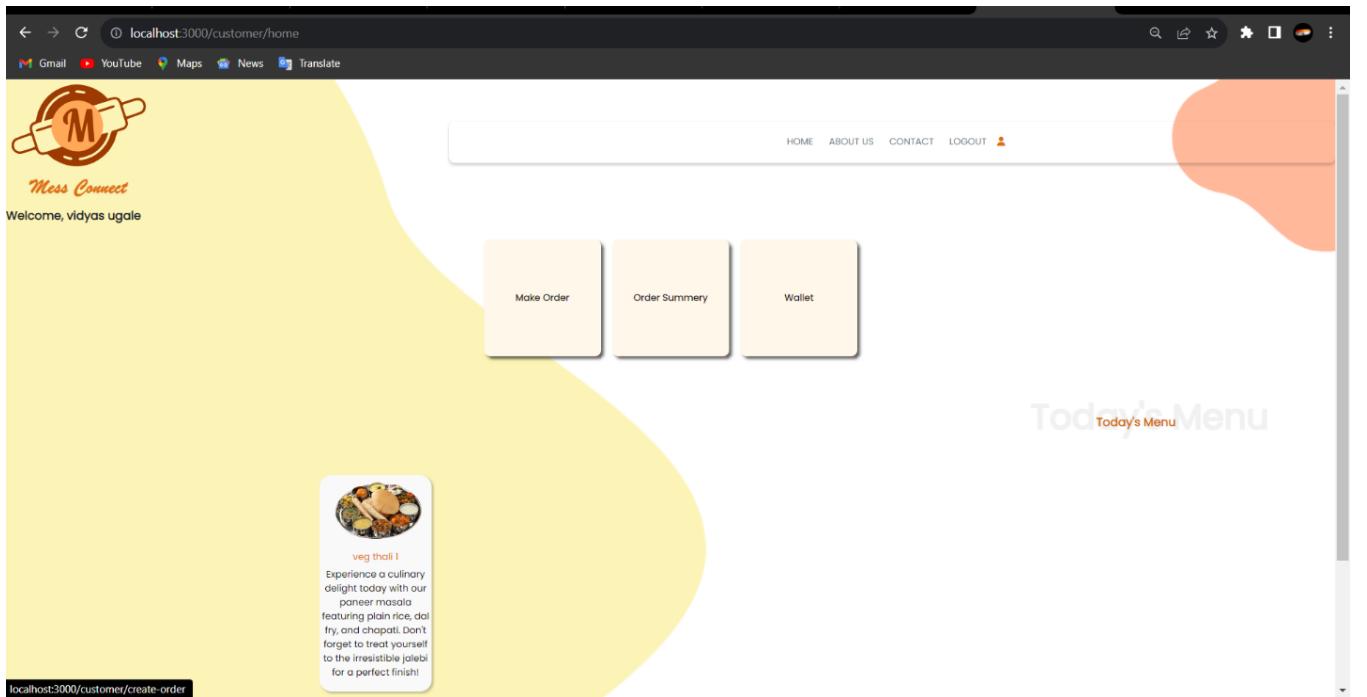


### 3. Registration Page



A screenshot of a web browser showing the registration page for 'Mess Connect'. The URL in the address bar is 'localhost:3000/register'. The page features a large yellow and orange abstract background graphic. At the top left is the 'Mess Connect' logo, which consists of a stylized 'M' inside a circular frame with a spoon and fork. Below the logo, the text 'Mess Connect' is written in orange. At the top right, there are links for 'LOGIN', 'REGISTER', 'ABOUT US', and 'CONTACT'. The main form is titled 'Register' and contains fields for 'First Name', 'Last Name', 'Email address', 'Password' (with a 'Show' checkbox), 'address', 'Mobile no.', and 'Role' (a dropdown menu with 'Select role' option). A red 'Register' button is at the bottom of the form. Below the form, a note says 'Already have an account? Login'.

### 4. User Home page



A screenshot of a web browser showing the user home page for 'Mess Connect'. The URL in the address bar is 'localhost:3000/customer/home'. The page has the same yellow and orange abstract background as the registration page. The 'Mess Connect' logo and text are at the top left. At the top right, there are links for 'HOME', 'ABOUT US', 'CONTACT', 'LOGOUT', and a user icon. The main content area includes three buttons: 'Make Order', 'Order Summary', and 'Wallet'. In the center, there is a promotional image for 'veg thali I' featuring a plate of food and some descriptive text. To the right, the text 'Today's Menu' is visible. At the bottom left, a link 'localhost:3000/customer/create-order' is shown. The footer of the page is a solid blue bar.

## 5. Order Page

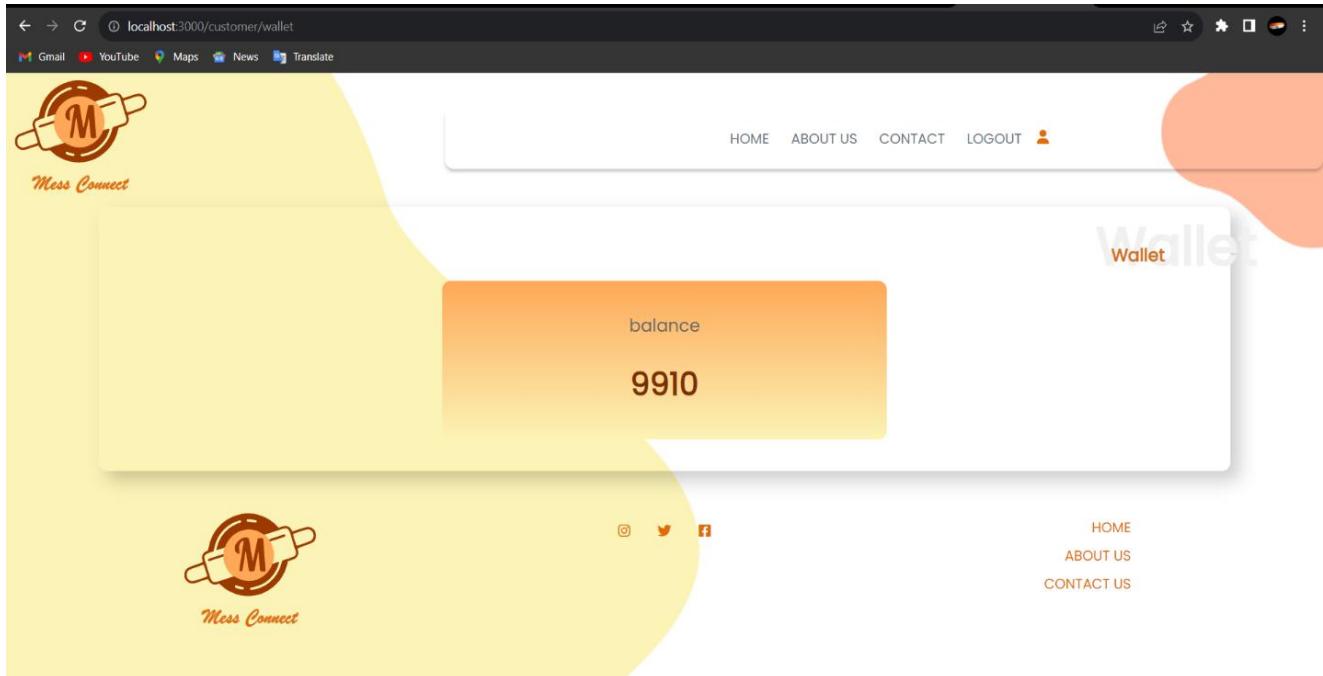
The screenshot shows the 'customer/create-order' page. At the top right, there are navigation links: HOME, ABOUT US, CONTACT, and LOGOUT. On the left, the 'Mess Connect' logo is displayed. In the center, there is a section titled 'Select Menu' with a sub-section 'Select AddOns'. A meal item 'veg thali 1' is shown with a description: 'Delight your taste buds with the rich and creamy paneer masala, accompanied by soft and fluffy roti. The thali also features the hearty and fragrant dal tarka, a must-try dish from the menu. The meal is served with fragrant jeera rice which perfectly complements the flavors, top off your meal with the delectable sweetness of jalebi, making your dining experience truly memorable. Price: Rs.70'. Below this, there are two add-on options: 'Name:dahi Price:10' and 'Name:lassi Price:20', each with an 'Add addOn' button. At the bottom right, there is an 'Order Now' button.

## 6. Order Summery

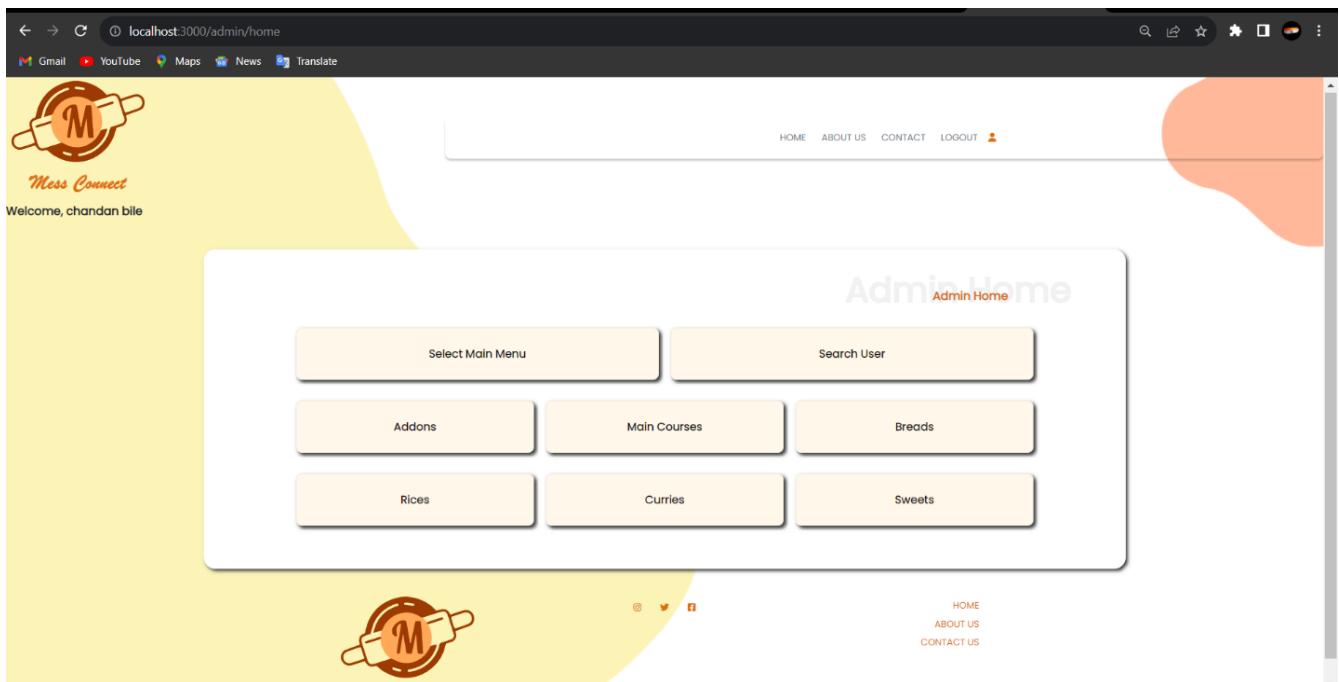
The screenshot shows the 'customer/order-summary' page. At the top right, there are navigation links: HOME, ABOUT US, CONTACT, and LOGOUT. On the left, the 'Mess Connect' logo is displayed. In the center, there is a table titled 'Order No.' showing one entry: Order No. 1, Thali 'veg thali 1', Add-Ons 'lassi,' and Amount '90'. To the right of the table, there are social media icons for Instagram, Twitter, and Facebook. At the bottom right, there is a 'HOME' link and 'ABOUT US' and 'CONTACT US' buttons.

Order No.	Thali	Add-Ons	Amount	Order Date	Order Time
1	veg thali 1	lassi,	90	2023-08-30	15:08:10

## 7.Wallet Page



## 8.Admin Home Page



## 9. Select Main Menu

The screenshot shows a table titled "Select Main Menu" with the following data:

Menu Name	Main Courses	Bread	Curry	Rice	Sweet	Price	Select
veg thali 1	paneer masala	chopati	dal fry	plain rice	jalebi	70	<input type="checkbox"/>
checken thali 1	chicken masala	bhakari	dal fry	plain rice	jalebi	100	<input type="checkbox"/>
veg thali 2	paneer masala	roti	dal fry	plain rice	shira	70	<input type="checkbox"/>
veg thali 3	veg kothapuri	roti	dal tadka	plain rice	gulab-jamun	70	<input type="checkbox"/>
Abcd	paneer masala	bhakari	dal plain	plain rice	guiaab-jamun	44	<input type="checkbox"/>

Buttons at the bottom: "Add Today's Menu" and "Admin Home".

## 10. Search User

The screenshot shows a table titled "User Data" with the following data:

First Name	Last Name	Email	Contact No	Balance	Actions
vidyas	ugale	vidyas@gmail.com	1234567890	9910 <button>Edit</button>	<button>Delete User</button>

Input field: "vidyas@gmail.com". Button: "Search".

Buttons at the bottom: "Edit" and "Delete User".

## 11. Add On's

The screenshot shows a web browser window for 'localhost:3000/addons'. The title bar says 'localhost:3000/addons'. The page features a large image of a fruit salad in an orange bowl. To the right, there is a table titled 'Create New Add On' with columns for Name, Price, and Select. Three items are listed: dahi (10), lassi (20), and tak (10). Below the table is a button 'Add to Today's Add On'. A watermark 'Create Add On's' and 'Create Add On's' is visible.

Name	Price	Select
dahi	10	<input type="checkbox"/>
lassi	20	<input type="checkbox"/>
tak	10	<input type="checkbox"/>

## 12. Main Course

The screenshot shows a web browser window for 'localhost:3000/main-courses'. The title bar says 'localhost:3000/main-courses'. The page features a large image of a dish in a metal bowl. To the right, there is a table titled 'Main Courses' with a section for creating a new course. A watermark 'Main Courses' and 'Main Courses' is visible.

Main Courses
paneer masala
chicken masala
veg kolhapuri

MainCourse Name :

Create Main Course

## 13. Bread

The screenshot shows a web browser window with the URL `localhost:3000/breads`. The page features a yellow header with the logo 'Mess Connect' and a navigation bar with links for HOME, ABOUT US, CONTACT, and LOGOUT. A large image of a basket filled with various types of bread (chapati, roti, bhakri) is displayed on the left. On the right, there is a form for creating a new bread entry, labeled 'Breads'. The form includes a text input field for 'Bread Name:', an orange 'Create Bread' button, and a list of existing bread names: chapati, roti, and bhakri.

## 14. Rice

The screenshot shows a web browser window with the URL `localhost:3000/rices`. The layout is similar to the Bread section, with a yellow header, 'Mess Connect' logo, and navigation bar. A large image of a black bowl filled with rice and garnished with cilantro is shown on the left. On the right, there is a form for creating a new rice entry, labeled 'Rices'. The form includes a text input field for 'Rice Name:', an orange 'Create Rice' button, and a list of existing rice names: jeera rice, plain rice, and biryani rice.

## 15.Curry

The screenshot shows a web browser window with the URL `localhost:3000/curries`. The page features a header with the 'Mess Connect' logo and navigation links for HOME, ABOUT US, CONTACT, and LOGOUT. On the left, there's a large image of a yellow curry dish in a metal pot with a wooden handle, garnished with red chilies and cilantro. The right side contains a form for creating a new curry, labeled 'Curries'. It includes a text input field for 'Curry Name:', a 'Create Curry' button, and a list of existing curry names: 'dal plain', 'dal fry', and 'dal tadka'.

## 16.Sweet

The screenshot shows a web browser window with the URL `localhost:3000/sweets`. The layout is similar to the Curry page, with a header for 'Mess Connect' and navigation links. The left side features a large image of a silver platter filled with various Indian sweets like gulab jamun, jalebi, and shira. The right side contains a form for creating a new sweet, labeled 'Sweets'. It includes a text input field for 'Sweet Name:', a 'Create Sweet' button, and a list of existing sweet names: 'jalebi', 'gulab-jamun', 'shira', and 'Rabadi'.

## 17. About Us

The screenshot shows the 'About Us' page of the Mess Connect website. At the top, there is a navigation bar with links for HOME, ABOUT US, CONTACT, LOGOUT, and a user icon. On the left side, there is a logo for 'Mess Connect' featuring a stylized 'M' inside a circle with a fork and knife. The main content area contains a large image of the same logo. Below the image, there is a text box containing the following text:

"Mess Connect" is designed to revolutionize the traditional campus dining experience by integrating smart technology, user centric design, and efficient management. This innovative platform provides a one-stop solution to manage meals, modifications, and payments, all through a user-friendly web interface. From the outset, the project envisions a seamless and convenient experience for all stakeholders, including students, mess administrators, and kitchen staff.

## 18. Contact Us

The screenshot shows the 'Contact Us' page of the Mess Connect website. At the top, there is a navigation bar with links for HOME, ABOUT US, CONTACT, LOGOUT, and a user icon. On the left side, there is a logo for 'Mess Connect' featuring a stylized 'M' inside a circle with a fork and knife. The main content area contains a text box with the following information:

Phone No.: 9881474580  
Email at : messconnect@gmail.com

At the bottom right of the page, there are social media icons for Instagram, Twitter, and Facebook. There is also a small navigation bar with links for HOME, ABOUT US, and CONTACT US.

## 6. TESTINGS

The testing phase of the Mess Connect web application is a crucial step in ensuring the reliability, functionality, and security of the software. It involves systematic evaluation and validation of all aspects of the application to identify and rectify any defects, inconsistencies, or vulnerabilities before its deployment to production. This section outlines the comprehensive testing approach adopted for the Mess Connect web application.

### **Objective of Testing:**

The primary objectives of testing for the Mess Connect web application are as follows:

- Verify the functionality of all features and modules.
- Identify and address any defects or inconsistencies in the application.
- Validate the user interface for responsiveness and ease of use.
- Ensure the security and privacy of user data.
- Confirm the compatibility of the application across different devices and browsers.
- Assess the performance and responsiveness of the application under various loads

In the course of our project, we made an effort to manually test each component.

In all cases, we obtained the desired results as demonstrated below.

## A. CUSTOMER FEATURES TEST

Sr. No.	Description	Outcome	Result
1.	Login or Register as Customer	Fetched authenticated user details saved in database.	Passed
2.	Make Order	Order made successfully and saved in database.	Passed
3.	Order Summery	Order history fetch successfully	Passed
4.	Wallet	Balance fetch successfully	Passed
5.	Edit Profile	Customer can edit information successfully.	Passed
6.	Logout	The session was cleared.	Passed

## B. ADMIN FEATURES TEST

Sr. No.	Description	Outcome	Result
1.	Login or Register as Admin	Fetched authenticated user details saved in database.	Passed
2.	Select Main Menu	Menu selected successfully and saved in database.	Passed
3.	Search User	Search user, add balance and can delete customer successfully.	Passed
4.	Addons	Create new add on and add todays add on successfully.	Passed
5.	Main course	Successfully create main course.	Passed
6.	Bread, Rice, Curries, Sweets	Successfully create bread, rice, curries, sweets.	Passed
7.	Edit Profile	Admin can edit personal information successfully.	Passed
8.	Logout	The session was cleared.	Passed

## 7. CONCLUSION

The "Mess Connect" project stands as a testament to the transformative potential of technology in enhancing daily culinary experiences. By reimagining traditional mess management through a user-centric web application, we have successfully addressed challenges associated with meal planning, customization, and administration. The project's seamless interface built on React.JS and J2EE empowers users to effortlessly manage their dining needs, while the centralized control center empowers administrators with invaluable insights.

The project's successful implementation highlights its significance in modernizing and optimizing mess and canteen dining. Through streamlined processes, reduced food wastage, and enhanced user satisfaction, "Mess Connect" aligns with the evolving needs of mess and canteens and their diverse communities. Furthermore, the project's emphasis on data security, scalability, and future adaptability underscores its readiness to cater to the dynamic landscape of technology.

As we conclude this project, we recognize its potential to set a new standard for mess management. By embracing innovation and efficiency, "Mess Connect" paves the way for an improved dining experience, ultimately contributing to a holistic and technologically empowered food journey.

---