

# Indian Institute of Technology Gandhinagar



## CS 432: Databases

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### Assignment 3: Implementing a Web App using MySQL Outlet Database Management System

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#### Team : The Pluto

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**Under The Guidance Of**  
*Prof. Mayank Singh*

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**Installation requirements:**

- pip install virtualenv
- pip install Flask
- pip install flask-mysqldb
- pip install mysqlclient

**Modules used:**

- From flask import Flask, render\_template, request, redirect, url\_for, flash, session
- from flask\_mysqldb import MySQL

**These are the major steps to launch the website:**

- Move all the files into one folder. Open that folder as code in VS Code.
- Install required libraries (mentioned above)
- Change the database configuration i.e., password, file, server host, and user.
- Run the "app.py" file using the command "python ./app.py"

*Note: MySQL server(workbench) should be installed on the PC. Dump the “outlet.sql” in the same directory.*

**Project Description: Dynamic Web Application for Database Management**

The project aims to develop a dynamic web application using Flask and MySQL to manage a database efficiently. The application will allow users to perform CRUD (Create, Read, Update, Delete) operations on the database and execute queries using a WHERE clause.

**Key Features:**

**User Authentication:** The web application will provide user authentication to ensure that only authorized users can access and modify the database.

**Front-End (Group G1):**

- Group G1 was responsible for developing the front-end of the web application Outlet Management System using HTML, CSS, and JavaScript.
- The front-end will provide a user-friendly interface for interacting with the database, displaying data, and performing all the executing operations.

**Back-End (Group G2):**

- Group G2 handled the back-end development using Flask, a lightweight web framework for Python.
- The back-end design will handle all the requests from the front-end, process database operations, and interact with the MySQL database.

**Database Management:**

- The web application supports dynamic execution of CRUD operations: INSERT, UPDATE, DELETE, and RENAME.
- Users will be able to perform these operations on the database directly through the web interface.
- Additionally, the application supports the execution of queries with a WHERE clause, allowing users to filter data based on specific conditions.

**Real-Time Updates:**

- Changes made by users through the web application are reflected in real-time in the main database and on the web page.
- This ensures that users have up-to-date information and that any modifications are immediately visible.

**Error Handling and Validation:**

- The application also includes error handling mechanisms to gracefully handle exceptions and provide users with meaningful error messages.
- Input validation is implemented to prevent invalid or malicious data from being submitted to the database.

**Security Measures:**

- Security measures, such as encryption of sensitive data have been taken like we have made two different views one for stakeholders which has access to perform all the operations on the website and a student view which can see only the information Also all the pages are not visible to the student view, to ensure the integrity and confidentiality of the database.

Among the parts of the frontend, we have made different pages required for our website of Outlet Management System to run efficiently and to take care that all the required functions are operated smoothly and efficiently. Initially running the website server will lead to opening a login page.

## Login Page

# Outlet Management @ IITGN



**Sign in**  
Please login to your account

**Username/Email ID**

**Your password**

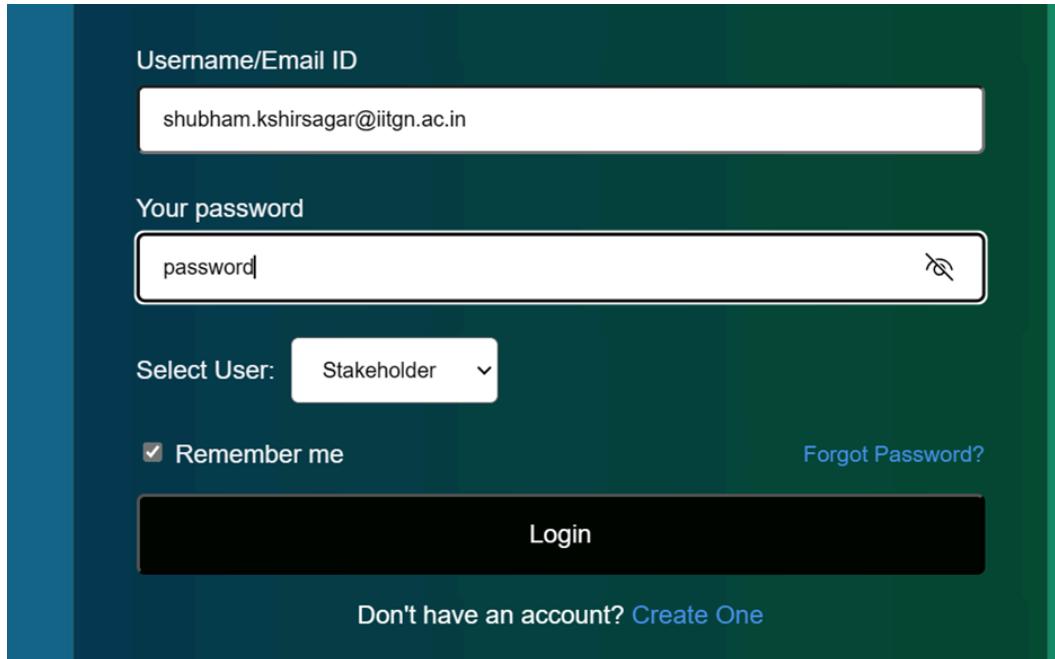
**Select User:** Stakeholder ▾

Remember me [Forgot Password?](#)

**Login**

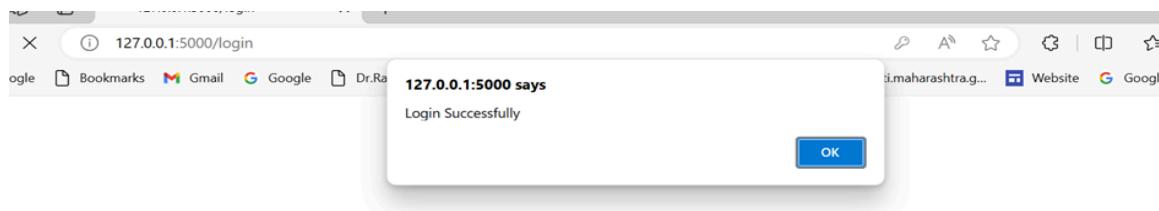
Don't have an account? [Create One](#)

- Login for the **stakeholder view**

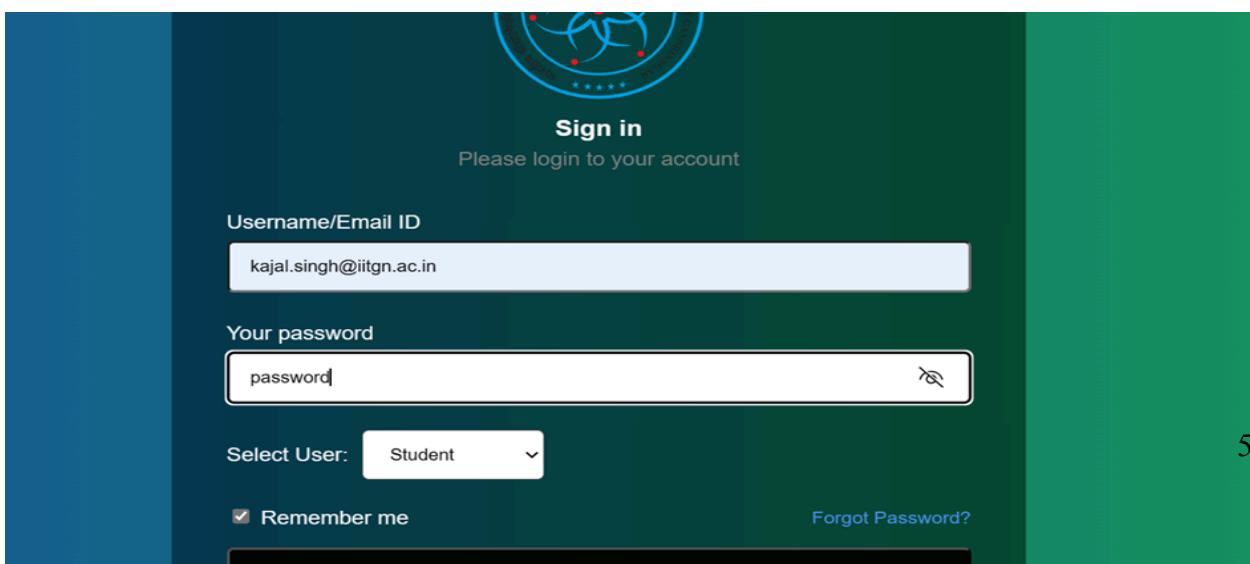


The screenshot shows a dark-themed login form for a stakeholder view. It includes fields for 'Username/Email ID' (shubham.kshirsagar@iitgn.ac.in), 'Your password' (password), and 'Select User' (Stakeholder). There are checkboxes for 'Remember me' and 'Forgot Password?'. A large 'Login' button is at the bottom, and a link for 'Create One' is at the bottom right.

Successfully login page for stakeholder view.



- Login for the **Student view**



The screenshot shows a dark-themed login form for a student view. It includes fields for 'Username/Email ID' (kajal.singh@iitgn.ac.in), 'Your password' (password), and 'Select User' (Student). There are checkboxes for 'Remember me' and 'Forgot Password?'. A large 'Sign in' button is at the top, and a link for 'Please login to your account' is below it.

Successfully login for the student view



User authentication is a crucial aspect of web applications, ensuring that only authorized individuals can access certain features or data. Our application has implemented a simple authentication mechanism based on email and password.

### **1) Stakeholder Access :**

Stakeholders, such as administrators or managers, have access to detailed information about outlets and other relevant data. Below email address and password together provide access to the stakeholder view.

Email: shubham.kshirsagar@iitgn.ac.in

Password: password

### **2) Student Access (Kajal Singh):**

Students have limited access compared to stakeholders. Below email address and password together provide access to the student view.

Email: kajal.singh@iitgn.ac.in

Password: password

If a user enters an incorrect email address or password during the login process, the authentication system will detect the discrepancy and deny access to the application.

## STAKEHOLDER VIEW:

Now once the login is done, we are open with the home page for the **stakeholder view**, which by default contains the Outlet Management Page

≡ Outlet Management							
Home		Search Outlet...			Add		
Stakeholder Details		Outlet Name	Location	Contact	Timing	Rating	Action
Inventory Details	Atul X	Location 1	1234567890	9:00 AM - 6:00 PM	4.5	<button>Edit</button>	<button>Delete</button>
Employee Details	Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2	<button>Edit</button>	<button>Delete</button>
Customer feedback	Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4.0	<button>Edit</button>	<button>Delete</button>
Rent details	Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8	<button>Edit</button>	<button>Delete</button>
Survey Details	VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6	<button>Edit</button>	<button>Delete</button>
	Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3	<button>Edit</button>	<button>Delete</button>
	Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	<button>Edit</button>	<button>Delete</button>
	Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	<button>Edit</button>	<button>Delete</button>

This is the home page with a **sidebar** having options for all the details a **stakeholder can access**, such as stakeholder details, inventory details, employee details, customer feedback, rent details, and survey details, as shown in the screenshot above.

Now navigating through the sidebar will give different pages as shown.

- [Outlet Management \(Home Page\)](#)

≡

# Outlet Management

[Add](#)

Outlet Name	Location	Contact	Timing	Rating	Action
Atul Bakery	Location 1	1234567890	9:00 AM - 6:00 PM	4.5	<a href="#">Edit</a> <a href="#">Delete</a>
Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2	<a href="#">Edit</a> <a href="#">Delete</a>
Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4.0	<a href="#">Edit</a> <a href="#">Delete</a>
Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8	<a href="#">Edit</a> <a href="#">Delete</a>
VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6	<a href="#">Edit</a> <a href="#">Delete</a>
Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3	<a href="#">Edit</a> <a href="#">Delete</a>
Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	<a href="#">Edit</a> <a href="#">Delete</a>
Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	<a href="#">Edit</a> <a href="#">Delete</a>

Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3	<a href="#">Edit</a> <a href="#">Delete</a>
Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	<a href="#">Edit</a> <a href="#">Delete</a>
Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	<a href="#">Edit</a> <a href="#">Delete</a>
2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4	<a href="#">Edit</a> <a href="#">Delete</a>
Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.9	<a href="#">Edit</a> <a href="#">Delete</a>
Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3	<a href="#">Edit</a> <a href="#">Delete</a>
Amul Shop	Location 12	2345678901	10:00 AM - 7:00 PM	4.1	<a href="#">Edit</a> <a href="#">Delete</a>
Krupa Generals	Location 13	3456789012	9:30 AM - 6:30 PM	4.5	<a href="#">Edit</a> <a href="#">Delete</a>
Just Chill Cafe	Location 14	4567890123	9:00 AM - 5:00 PM	4.2	<a href="#">Edit</a> <a href="#">Delete</a>
JK Grocery	Location 15	5678901234	8:00 AM - 4:00 PM	4.7	<a href="#">Edit</a> <a href="#">Delete</a>

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- [Stakeholders details page](#)

### ≡ Stakeholder Details

 Logout

Name	Email ID	Position	Entry Date	Exit Date	Action
Rahul Jain	jain.rahal@iitgn.ac.in	Survey_head	2023-05-04	None	<button>Edit</button> <button>Delete</button>
Sparsh Singh	singh.sparsh@iitgn.ac.in	Cleaning_incharge	2023-01-15	None	<button>Edit</button> <button>Delete</button>
Hrishav Gupta	gupta.hrishav@iitgn.ac.in	Maintanence_head	2023-03-12	None	<button>Edit</button> <button>Delete</button>
Rounak Mehta	mehta.rounak@iitgn.ac.in	Logistics_incharge	2023-05-11	None	<button>Edit</button> <button>Delete</button>
Ayush Singh	singh.ayush@iitgn.ac.in	Survey_head	2023-03-15	None	<button>Edit</button> <button>Delete</button>
Ayush Kumar	kumar.ayush@iitgn.ac.in	Rent_incharge	2023-04-23	None	<button>Edit</button> <button>Delete</button>
Darsh Rungta	rungta.darsh@iitgn.ac.in	Logistics_incharge	2023-01-11	None	<button>Edit</button> <button>Delete</button>
Yash Kumar	kumar.yash@iitgn.ac.in	Maintanence_head	2023-05-18	None	<button>Edit</button> <button>Delete</button>

- [Inventory details Page](#)

### ≡ Inventory Details

 Logout

Outlet name	Item name	Price	Action
Atul X	Item 1	400.00	<button>Edit</button> <button>Delete</button>
Dawat Food	Item 2	200.00	<button>Edit</button> <button>Delete</button>
Mahaveer Food	Item 3	120.00	<button>Edit</button> <button>Delete</button>
Tea Post	Item 4	100.00	<button>Edit</button> <button>Delete</button>
VS Fast Food	Item 5	230.00	<button>Edit</button> <button>Delete</button>
Go Insta	Item 6	50.00	<button>Edit</button> <button>Delete</button>
Pooja Stationery	Item 7	20.00	<button>Edit</button> <button>Delete</button>
Mondego	Item 8	30.00	<button>Edit</button> <button>Delete</button>

- [Employee details Page](#)

≡ Employee Details



Search... Outlet Name Search Add

Outlet Name	Employee Name	Role	Mobile Number	Shift Time	Action
Atul X	Kartik Gupta	Manager	9876543210	Night shift	<button>Edit</button> <button>Delete</button>
Atul X	Tushar Mishra	Cashier	8765432109	10:00 AM - 6:00 PM	<button>Edit</button> <button>Delete</button>
Dawat Food	Kedhar Jadhav	Chef	7654321098	12:00 PM - 8:00 PM	<button>Edit</button> <button>Delete</button>
Dawat Food	Manish Pandey	Security Guard	6543210987	Night Shift	<button>Edit</button> <button>Delete</button>
Mahaveer Food	Pankaj Tripathi	Delivery boy	5432109876	8:00 AM - 4:00 PM	<button>Edit</button> <button>Delete</button>
Mahaveer Food	Abhishek Kumar	Stock incharge	4321098765	9:00 AM - 5:00 PM	<button>Edit</button> <button>Delete</button>
Tea Post	Ashish Mehta	Waiter	3210987654	4:00 PM - 12:00 AM	<button>Edit</button> <button>Delete</button>

- [Customer feedback Page](#)

≡ Customer Feedback



Search Outlet... Search Add

Outlet Name	Customer Email	Customer Rating	Action
Atul X	customer1@gmail.com	4.5	<button>Edit</button> <button>Delete</button>
Dawat Food	None	4.2	<button>Edit</button> <button>Delete</button>
Mahaveer Food	customer3@gmail.com	4.8	<button>Edit</button> <button>Delete</button>
Tea Post	None	3.9	<button>Edit</button> <button>Delete</button>
VS Fast Food	customer5@gmail.com	4.1	<button>Edit</button> <button>Delete</button>
Go Insta	None	4.6	<button>Edit</button> <button>Delete</button>
Pooja Stationery	customer7@gmail.com	3.7	<button>Edit</button> <button>Delete</button>
Mondego	None	4.9	<button>Edit</button> <button>Delete</button>

- [Rent details Page](#)

### ≡ Rent Payment

Logout

Outlet Name	Mode of Payment	Paid amount	Rent from date	Rent to date	Due amount	Action
Atul X	Cash	8000.00	2023-09-01	2023-09-30	0.00	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
Dawat Food	Credit Card	6200.00	2023-09-01	2023-09-30	1200.00	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
Mahaveer Food	Debit Card	9500.00	2023-07-01	2023-07-31	0.00	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
Tea Post	Bank Transfer	7000.00	2023-07-01	2023-07-31	0.00	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
VS Fast Food	Cash	7200.00	2023-08-01	2023-08-31	0.00	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
Go Insta	Credit Card	4500.00	2023-10-01	2023-10-31	800.00	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
Pooja Stationery	Debit Card	5800.00	2023-11-01	2023-11-30	0.00	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
Mondego	Bank Transfer	6500.00	2023-12-01	2023-12-31	0.00	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

- [Survey details Page](#)

### ≡ Survey Details

Logout

Outlet Name	Date of Survey	Stakeholder name	Description	Warning Issued	Penalty Amount
Atul X	2023-01-01	Rahul Jain	Cleanliness issue observed in the restroom area.	Yes	150.00
Dawat Food	2023-01-05	Sparsh Singh	Kitchen equipment needs maintenance.	Yes	200.00
Mahaveer Food	2023-01-10	Hrishav Gupta	Customer complaints regarding slow service.	Yes	100.00
Tea Post	2023-01-15	Rounak Mehta	Everything Working efficiently.	No	None
VS Fast Food	2023-01-20	Ayush Singh	Good conditions.	No	None
Go Insta	2023-01-25	Ayush Kumar	Unsanitary conditions observed in the dining area.	No	80.00
Pooja Stationery	2023-02-01	Darsh Rungta	Safety hazards identified in the outdoor seating area.	Yes	250.00

These are all the pages we have made in our website Outlet Management System which shows all the data stored in the SQL database.

## STUDENT VIEW:

- Now after the login for **student view**, we will get the home page as again the outlet management but this does not have options for add, edit and delete which means a student can just view they don't have access to perform different operations. Also, they are allowed to see only stakeholder details and survey details apart from the Outlet Management as you can see in the sidebar below.

≡ Outlet Management						
Home		Search Outlet...		Search		
Stakeholder Details		Outlet Name	Location	Contact	Timing	Rating
Survey Details	Atul Bakery	Location 1	1234567890	9:00 AM - 6:00 PM	4.5	
	Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2	
	Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4.0	
	Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8	
	VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6	
	Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3	
	Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	
	Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	
	2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4	

However, a **student login** can have the option to operate **where** clause (search bar) according to the information they want to retrieve from the data.

An example of this is shown in the screenshot attached below.

Outlet Name	Location	Contact	Timing	Rating
Atul Bakery	Location 1	1234567890	9:00 AM - 6:00 PM	4.5
Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3
Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2
Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4.0
Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8
VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6
Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1
Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7
2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4

Here a student has searched for the keyword **Atul** in the search bar, then it will show all the records containing the keyword **Atul** which will give the output as shown below

<b>Outlet Management</b>					 Logout
<input type="text" value="Search Outlet..."/> <input type="button" value="Search"/>					
Outlet Name	Location	Contact	Timing	Rating	
Atul Bakery	Location 1	1234567890	9:00 AM - 6:00 PM	4.5	

### **DIFFERENT OPERATIONS:**

- Now since the Stakeholder login has access to edit, add and delete options. We will look at these options on how they work one by one for **Outlet Management** and also see how the changes on the website will affect the data stored in the SQL database.

Initially, the **Outlet Management** on the **website** has records as shown below.

<b>≡ Outlet Management</b>						 Logout
<input type="text" value="Search Outlet..."/> <input type="button" value="Search"/>						<input type="button" value="Add"/>
Outlet Name	Location	Contact	Timing	Rating	Action	
Atul Bakery	Location 1	1234567890	9:00 AM - 6:00 PM	4.5	<input type="button" value="Edit"/> <input type="button" value="Delete"/>	
Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2	<input type="button" value="Edit"/> <input type="button" value="Delete"/>	
Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4.0	<input type="button" value="Edit"/> <input type="button" value="Delete"/>	
Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8	<input type="button" value="Edit"/> <input type="button" value="Delete"/>	
VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6	<input type="button" value="Edit"/> <input type="button" value="Delete"/>	
Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3	<input type="button" value="Edit"/> <input type="button" value="Delete"/>	
Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	<input type="button" value="Edit"/> <input type="button" value="Delete"/>	
Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	<input type="button" value="Edit"/> <input type="button" value="Delete"/>	

Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3	<button>Edit</button>	<button>Delete</button>
Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	<button>Edit</button>	<button>Delete</button>
Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	<button>Edit</button>	<button>Delete</button>
2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4	<button>Edit</button>	<button>Delete</button>
Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.9	<button>Edit</button>	<button>Delete</button>
Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3	<button>Edit</button>	<button>Delete</button>
Amul Shop	Location 12	2345678901	10:00 AM - 7:00 PM	4.1	<button>Edit</button>	<button>Delete</button>
Krupa Generals	Location 13	3456789012	9:30 AM - 6:30 PM	4.5	<button>Edit</button>	<button>Delete</button>
Just Chill Cafe	Location 14	4567890123	9:00 AM - 5:00 PM	4.2	<button>Edit</button>	<button>Delete</button>
JK Grocery	Location 15	5678901234	8:00 AM - 4:00 PM	4.7	<button>Edit</button>	<button>Delete</button>

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Also, the database for the **Outlet Management** on the SQL is as shown below.

Result Grid   Filter Rows: <input type="text"/> Export:  Wrap Cell Content:							
Outlet_ID	Stakeholder_ID	Outlet_name	Location_name	Contact_No	timings	Ratings	
1	1	Atul Bakery	Location 1	1234567890	9:00 AM - 6:00 PM	4.5	
2	2	Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2	
3	3	Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4	
4	4	Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8	
5	5	VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6	
6	6	Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3	
7	7	Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	
8	8	Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	
Outlet 10							

Result Grid   Filter Rows: <input type="text"/> Export:  Wrap Cell Content:							
Outlet_ID	Stakeholder_ID	Outlet_name	Location_name	Contact_No	timings	Ratings	
9	9	2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4	
10	10	Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.9	
11	1	Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3	
12	2	Amul Shop	Location 12	2345678901	10:00 AM - 7:00 PM	4.1	
13	3	Krupa Generals	Location 13	3456789012	9:30 AM - 6:30 PM	4.5	
14	4	Just Chill Cafe	Location 14	4567890123	9:00 AM - 5:00 PM	4.2	
15	5	JK Grocery	Location 15	5678901234	8:00 AM - 4:00 PM	4.7	
Outlet 38							

Initially, both the records in the website and the database were till the JK Grocery at Location 15.

## ADD OPERATION:

- Starting with the **ADD** option let's say we will add an outlet in the Outlet Management with the details as follows:

Outlet Name: Kajal Industries  
 Location: Location 16  
 Contact: 9350003251  
 Timings: 8:00 AM - 4:00 PM  
 Rating: 4.5

When we click on the add button on the top of the Outlet Management Page a dialogue box will appear to fill in the details about the new outlet to be added and fill in all the details as mentioned above in the dialogue box as shown below.

Outlet Name	Location	Contact	Timings	Rating	Action
Atul Bakery	Location 16	9350003251	8:00 AM - 4:00 PM	4.5	Edit   Delete
Dawat Food					Edit   Delete
Mahaveer Food					Edit   Delete
Tea Post					Edit   Delete
VS Fast Food					Edit   Delete
Go Insta					Edit   Delete
Pooja Stationery					Edit   Delete
Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	Edit   Delete

Now, clicking on the save button will add the desired outlet both on the frontend (website) as well as on the backend (SQL database).

Snapshot of the updated Outlet details for the website:

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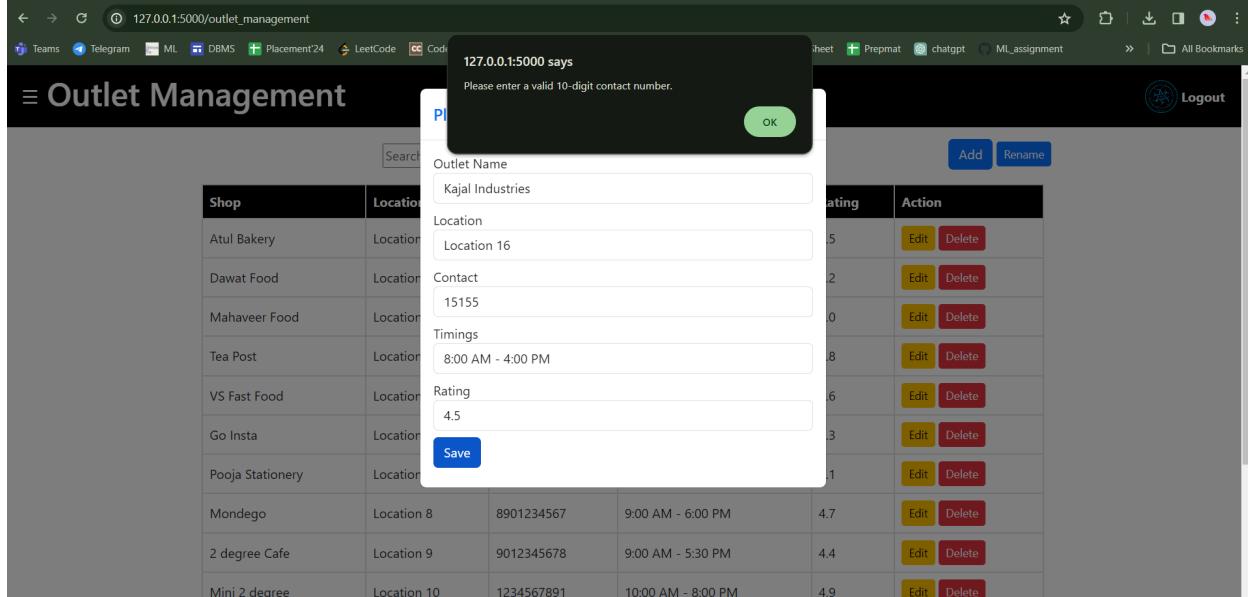
Outlet_name	Location_name	Contact_No	timings	Ratings	Edit	Delete
Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	<button>Edit</button>	<button>Delete</button>
Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	<button>Edit</button>	<button>Delete</button>
2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4	<button>Edit</button>	<button>Delete</button>
Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.9	<button>Edit</button>	<button>Delete</button>
Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3	<button>Edit</button>	<button>Delete</button>
Amul Shop	Location 12	2345678901	10:00 AM - 7:00 PM	4.1	<button>Edit</button>	<button>Delete</button>
Krupa Generals	Location 13	3456789012	9:30 AM - 6:30 PM	4.5	<button>Edit</button>	<button>Delete</button>
Just Chill Cafe	Location 14	4567890123	9:00 AM - 5:00 PM	4.2	<button>Edit</button>	<button>Delete</button>
JK Grocery	Location 15	5678901234	8:00 AM - 4:00 PM	4.7	<button>Edit</button>	<button>Delete</button>
Kajal Industries	Location 16	9350003251	8:00 AM - 4:00 PM	4.5	<button>Edit</button>	<button>Delete</button>

Snapshot of the updated outlet details on the SQL database:

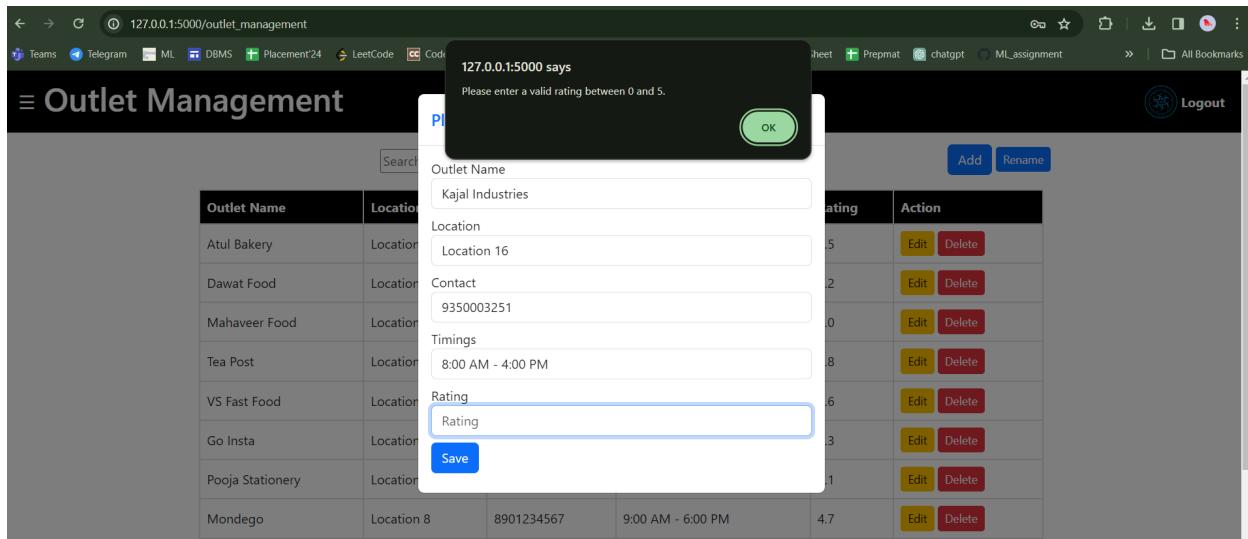
Outlet_ID	Stakeholder_ID	Outlet_name	Location_name	Contact_No	timings	Ratings
11	1	Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3
12	2	Amul Shop	Location 12	2345678901	10:00 AM - 7:00 PM	4.1
13	3	Krupa Generals	Location 13	3456789012	9:30 AM - 6:30 PM	4.5
14	4	Just Chill Cafe	Location 14	4567890123	9:00 AM - 5:00 PM	4.2
15	5	JK Grocery	Location 15	5678901	4567890123 - 4:00 PM	4.7
16	5	Kajal Industries	Location 16	9350003251	8:00 AM - 4:00 PM	4.5
NULL	NULL	NULL	NULL	NULL	NULL	NULL

This shows that adding a new outlet will add that outlet to both the website and the SQL database.

When entering contact information, we have ensured that the user can input only numbers. And, if a number with fewer than 10 digits is provided, he/she will receive a prompt asking you to provide a 10-digit contact number.



Similarly, when inputting ratings, we ensure that only numeric values can be entered between 0 and 5. If a value outside of this range is entered, the user will receive a prompt asking you to provide a valid rating between 0 and 5.



## EDIT OPERATION:

Now, we initially have the data in the outlet table as shown below.

Outlet Name	Location	Contact	Timing	Rating	Action
Atul Bakery	Location 1	1234567890	9:00 AM - 6:00 PM	4.5	<button>Edit</button> <button>Delete</button>
Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2	<button>Edit</button> <button>Delete</button>
Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4.0	<button>Edit</button> <button>Delete</button>
Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8	<button>Edit</button> <button>Delete</button>
VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6	<button>Edit</button> <button>Delete</button>
Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3	<button>Edit</button> <button>Delete</button>
Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	<button>Edit</button> <button>Delete</button>
Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	<button>Edit</button> <button>Delete</button>

Correspondingly data on the SQL database is shown below:

Outlet_ID	Stakeholder_ID	Outlet_name	Location_name	Contact_No	timings	Ratings
1	1	Atul Bakery	Location 1	1234567890	9:00 AM - 6:00 PM	4.5
2	2	Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2
3	3	Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4
4	4	Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8
5	5	VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6
6	6	Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3
7	7	Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1
8	8	Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7

Now, for the edit operation, we have to change the name of outlet 1, **Atul Bakery**, to **Atul X**.

### Note:

- Similar to the constraints enforced during the addition of new data, the edit feature ensures that the contact field only accepts numerical values.
- Likewise, the edit feature maintains consistency by enforcing constraints on the rating field, ensuring that it accepts numeric values within the range of 0 to 5

Again the dialogue box will appear to fill the parameters we wish to edit as here we are editing the outlet name therefore, we will write the name Atul X instead of Atul Bakery, as shown below.

Now, the updated table will look as shown below.

#### For website:

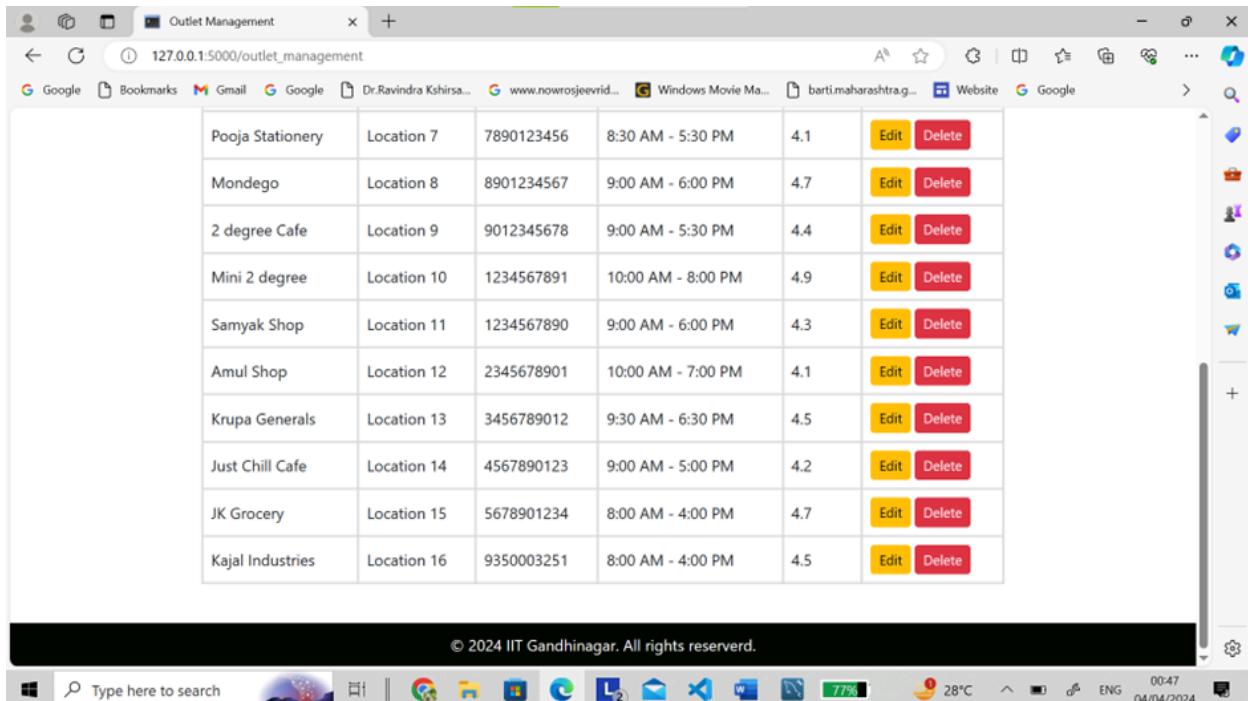
Outlet Name	Location	Contact	Timing	Rating	Action
Atul X	Location 1	1234567890	9:00 AM - 6:00 PM	4.5	<button>Edit</button> <button>Delete</button>
Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2	<button>Edit</button> <button>Delete</button>
Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4.0	<button>Edit</button> <button>Delete</button>
Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8	<button>Edit</button> <button>Delete</button>

#### For SOL database:

	Outlet_ID	Stakeholder_ID	Outlet_name	Location_name	Contact_No	timings	Ratings
1	1	1	Atul X	Location 1	1234567890	9:00 AM - 6:00 PM	4.5
2	2	2	Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2
3	3	3	Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4
4	4	4	Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8
5	5	5	VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6
6	6	6	Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3
7	7	7	Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1
8	8	8	Mondigo	Location 8	8901234567	9:00 AM - 6:00 PM	4.7

## DELETE OPERATION:

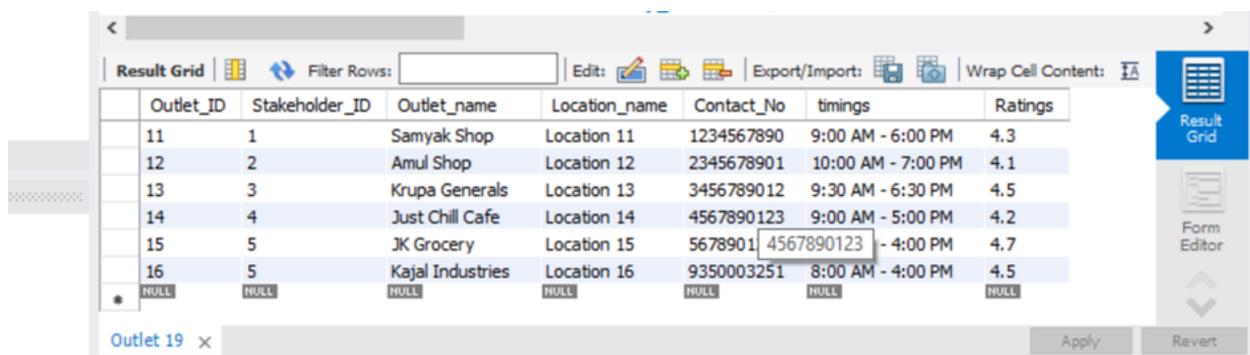
Initially, the record is as shown below.



Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	<button>Edit</button>	<button>Delete</button>
Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	<button>Edit</button>	<button>Delete</button>
2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4	<button>Edit</button>	<button>Delete</button>
Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.9	<button>Edit</button>	<button>Delete</button>
Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3	<button>Edit</button>	<button>Delete</button>
Amul Shop	Location 12	2345678901	10:00 AM - 7:00 PM	4.1	<button>Edit</button>	<button>Delete</button>
Krupa Generals	Location 13	3456789012	9:30 AM - 6:30 PM	4.5	<button>Edit</button>	<button>Delete</button>
Just Chill Cafe	Location 14	4567890123	9:00 AM - 5:00 PM	4.2	<button>Edit</button>	<button>Delete</button>
JK Grocery	Location 15	5678901234	8:00 AM - 4:00 PM	4.7	<button>Edit</button>	<button>Delete</button>
Kajal Industries	Location 16	9350003251	8:00 AM - 4:00 PM	4.5	<button>Edit</button>	<button>Delete</button>

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Type here to search    28°C    ENG    04/04/2024



Outlet_ID	Stakeholder_ID	Outlet_name	Location_name	Contact_No	timings	Ratings
11	1	Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3
12	2	Amul Shop	Location 12	2345678901	10:00 AM - 7:00 PM	4.1
13	3	Krupa Generals	Location 13	3456789012	9:30 AM - 6:30 PM	4.5
14	4	Just Chill Cafe	Location 14	4567890123	9:00 AM - 5:00 PM	4.2
15	5	JK Grocery	Location 15	5678901234	8:00 AM - 4:00 PM	4.7
16	5	Kajal Industries	Location 16	9350003251	8:00 AM - 4:00 PM	4.5
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Now to delete any outlet information from the database there is a delete button. On clicking this a confirmation message will appear as shown below. Here we have to delete the record for **Kajal Industries**. On clicking this appears.

The screenshot shows a table of 16 records. A confirmation dialog box is overlaid on the screen, asking "Are you sure you want to delete?" with "OK" and "Cancel" buttons. The record for "Kajal Industries" is highlighted in the table.

Pooja Stationery	Loc					<button>Edit</button>	<button>Delete</button>
Mondego	Loc					<button>Edit</button>	<button>Delete</button>
2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4		<button>Edit</button>	<button>Delete</button>
Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.9		<button>Edit</button>	<button>Delete</button>
Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3		<button>Edit</button>	<button>Delete</button>
Amul Shop	Location 12	2345678901	10:00 AM - 7:00 PM	4.1		<button>Edit</button>	<button>Delete</button>
Krupa Generals	Location 13	3456789012	9:30 AM - 6:30 PM	4.5		<button>Edit</button>	<button>Delete</button>
Just Chill Cafe	Location 14	4567890123	9:00 AM - 5:00 PM	4.2		<button>Edit</button>	<button>Delete</button>
JK Grocery	Location 15	5678901234	8:00 AM - 4:00 PM	4.7		<button>Edit</button>	<button>Delete</button>
Kajal Industries	Location 16	9350003251	8:00 AM - 4:00 PM	4.5		<button>Edit</button>	<button>Delete</button>

On clicking the **OK** on the confirmation message it will delete the selected record i.e., the record for Kajal Industries and we will get the record after deleting as shown below.

Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3	<button>Edit</button>	<button>Delete</button>
Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	<button>Edit</button>	<button>Delete</button>
Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	<button>Edit</button>	<button>Delete</button>
2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4	<button>Edit</button>	<button>Delete</button>
Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.9	<button>Edit</button>	<button>Delete</button>
Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3	<button>Edit</button>	<button>Delete</button>
Amul Shop	Location 12	2345678901	10:00 AM - 7:00 PM	4.1	<button>Edit</button>	<button>Delete</button>
Krupa Generals	Location 13	3456789012	9:30 AM - 6:30 PM	4.5	<button>Edit</button>	<button>Delete</button>
Just Chill Cafe	Location 14	4567890123	9:00 AM - 5:00 PM	4.2	<button>Edit</button>	<button>Delete</button>
JK Grocery	Location 15	5678901234	8:00 AM - 4:00 PM	4.7	<button>Edit</button>	<button>Delete</button>

	Outlet_ID	Stakeholder_ID	Outlet_name	Location_name	Contact_No	timings	Ratings
9	9		2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4
10	10		Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.9
11	1		Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3
12	2		Amul Shop	Location 12	2345678901	10:00 AM - 7:00 PM	4.1
13	3		Krupa Generals	Location 13	3456789012	9:30 AM - 6:30 PM	4.5
14	4		Just Chill Cafe	Location 13	67890123	9:00 AM - 5:00 PM	4.2
15	5		JK Grocery	Location 15	5678901234	8:00 AM - 4:00 PM	4.7

Outlet 38 x Read Only

Output

Also, it has also been removed from the SQL database.

### WHERE clause:

#### Outlet Management table:

- Searching dawat outlet using search bar

Outlet Name	Location	Contact	Timing	Rating	Action
Atul X	Location 1	1234567890	9:00 AM - 6:00 PM	4.5	<button>Edit</button> <button>Delete</button>
Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2	<button>Edit</button> <button>Delete</button>
Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4.0	<button>Edit</button> <button>Delete</button>

- After searching ,we will get the result bel like below

Outlet Name	Location	Contact	Timing	Rating	Action
Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2	<button>Edit</button> <button>Delete</button>

### Stakeholder table :

- Here we are searching for the records where the name of the Stakeholder is **Rahul**.

**Stakeholder Details**

Name	Email ID	Position	Entry Date	Exit Date	Action
Rahul Jain	jain.rauhul@iitgn.ac.in	Survey_head	2023-05-04	None	<button>Edit</button> <button>Delete</button>
Sparsh Singh	singh.sparsh@iitgn.ac.in	Cleaning_incharge	2023-01-15	None	<button>Edit</button> <button>Delete</button>
Unknown	unknown@iitgn.ac.in	Maintenance_head	2023-02-10	None	<button>Edit</button> <button>Delete</button>

- This will give all the records in the stakeholder table that contains the keyword Rahul.

**Stakeholder Details**

Name	Email ID	Position	Entry Date	Exit Date	Action
Rahul Jain	jain.rauhul@iitgn.ac.in	Survey_head	2023-05-04	None	<button>Edit</button> <button>Delete</button>

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### Inventory table:

- This is the record for the Inventory table.

The screenshot shows a web application titled "Inventory Details". At the top right is a "Logout" button. Below the title is a search bar with "Search Item..." placeholder text and a "Search" button. To the right of the search bar is a blue "Add" button. The main area contains a table with the following data:

Outlet_name	Item name	Price	Action
Atul X	Item 1	400.00	Edit Delete
Dawat Food	Item 2	200.00	Edit Delete
Mahaveer Food	Item 3	120.00	Edit Delete
Tea Post	Item 4	100.00	Edit Delete
VS Fast Food	Item 5	230.00	Edit Delete
Go Insta	Item 6	50.00	Edit Delete
Pooja Stationery	Item 7	20.00	Edit Delete
Mondego	Item 8	30.00	Edit Delete

- Here we are searching for the **Item 4** in the record.

The screenshot shows a search result for "item 4" in the inventory table. The search bar now contains "item 4" and the "Search" button is highlighted. The table data is as follows:

Outlet_name	Item name	Price	Action
Atul Bakery	Item 1	400.00	Edit Delete
Dawat Food	Item 2	200.00	Edit Delete

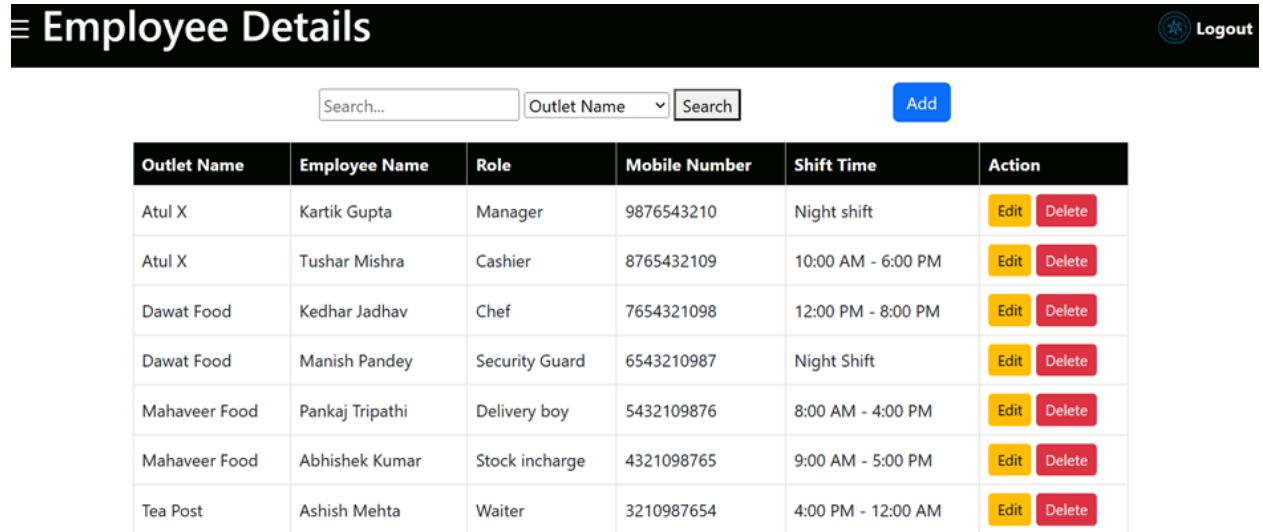
- Now after giving this query we will get the details of **Item 4** in the Inventory table.

The screenshot shows a search result for "Item 4" in the inventory table. The search bar now contains "Item 4" and the "Search" button is highlighted. The table data is as follows:

Outlet_name	Item name	Price	Action
Tea Post	Item 4	100.00	Edit Delete

### Employee table:

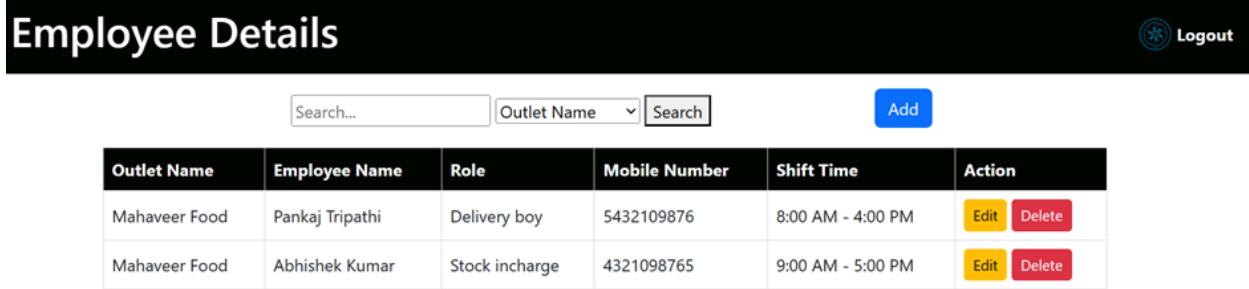
- Below is the Employee table in which we are searching for the Employees working in the outlet **Mahaveer**.



The screenshot shows a web application titled "Employee Details". At the top right are a "Logout" button and a user icon. Below the title is a search bar with fields for "Search...", "Outlet Name", and a "Search" button, along with an "Add" button. The main area is a table with the following columns: Outlet Name, Employee Name, Role, Mobile Number, Shift Time, and Action (with Edit and Delete buttons). The data in the table is as follows:

Outlet Name	Employee Name	Role	Mobile Number	Shift Time	Action
Atul X	Kartik Gupta	Manager	9876543210	Night shift	<button>Edit</button> <button>Delete</button>
Atul X	Tushar Mishra	Cashier	8765432109	10:00 AM - 6:00 PM	<button>Edit</button> <button>Delete</button>
Dawat Food	Kedhar Jadhav	Chef	7654321098	12:00 PM - 8:00 PM	<button>Edit</button> <button>Delete</button>
Dawat Food	Manish Pandey	Security Guard	6543210987	Night Shift	<button>Edit</button> <button>Delete</button>
Mahaveer Food	Pankaj Tripathi	Delivery boy	5432109876	8:00 AM - 4:00 PM	<button>Edit</button> <button>Delete</button>
Mahaveer Food	Abhishek Kumar	Stock incharge	4321098765	9:00 AM - 5:00 PM	<button>Edit</button> <button>Delete</button>
Tea Post	Ashish Mehta	Waiter	3210987654	4:00 PM - 12:00 AM	<button>Edit</button> <button>Delete</button>

- Now after querying for the employees working at Mahaveer we get the records as shown below.



The screenshot shows the same "Employee Details" interface, but the table now displays only employees from the "Mahaveer Food" outlet. The data is as follows:

Outlet Name	Employee Name	Role	Mobile Number	Shift Time	Action
Mahaveer Food	Pankaj Tripathi	Delivery boy	5432109876	8:00 AM - 4:00 PM	<button>Edit</button> <button>Delete</button>
Mahaveer Food	Abhishek Kumar	Stock incharge	4321098765	9:00 AM - 5:00 PM	<button>Edit</button> <button>Delete</button>

### Customer Feedback table:

- Here we are querying for the customer feedback given to the outlet with keyword **Atul**.

The screenshot shows a table titled "Customer Feedback" with columns: "Outlet Name", "Customer Rating", and "Action". A search bar at the top left contains "Atul". A modal window titled "Saved data" is open, showing a list of names: Atul, rahul, Dawa, atul, Rahul, and Dawat Food. The table data is as follows:

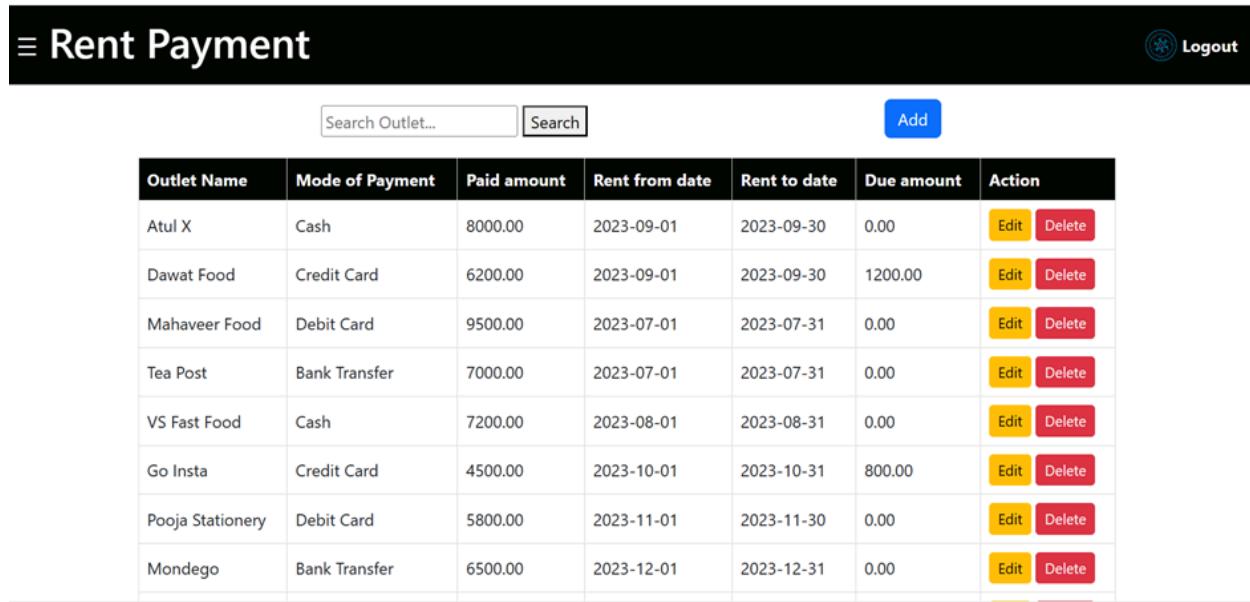
Outlet Name	Customer Rating	Action
Atul Bakery	4.5	<button>Edit</button> <button>Delete</button>
Dawat Food	4.2	<button>Edit</button> <button>Delete</button>
Mahaveer Food	4.8	<button>Edit</button> <button>Delete</button>
Tea Post	3.9	<button>Edit</button> <button>Delete</button>
VS Fast Food	4.1	<button>Edit</button> <button>Delete</button>

- Querying this will give the result as below.

The screenshot shows a table titled "Customer Feedback" with columns: "Outlet Name", "Customer Email", "Customer Rating", and "Action". A search bar at the top left contains "Search Outlet...". The table data is as follows:

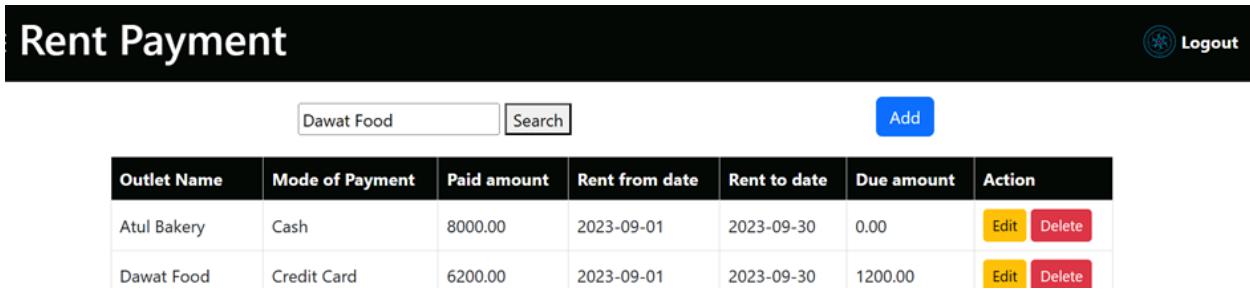
Outlet Name	Customer Email	Customer Rating	Action
Atul Bakery	customer1@gmail.com	4.5	<button>Edit</button> <button>Delete</button>
Atul Bakery	customer11@gmail.com	4.5	<button>Edit</button> <button>Delete</button>

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**Rent Payment table:**


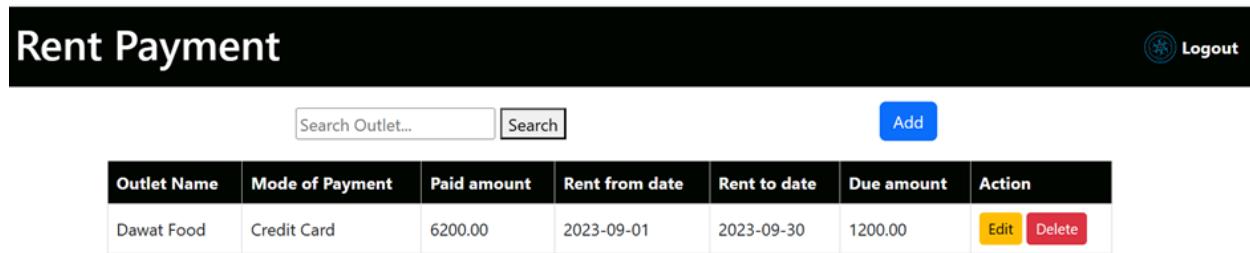
Outlet Name	Mode of Payment	Paid amount	Rent from date	Rent to date	Due amount	Action
Atul X	Cash	8000.00	2023-09-01	2023-09-30	0.00	<button>Edit</button> <button>Delete</button>
Dawat Food	Credit Card	6200.00	2023-09-01	2023-09-30	1200.00	<button>Edit</button> <button>Delete</button>
Mahaveer Food	Debit Card	9500.00	2023-07-01	2023-07-31	0.00	<button>Edit</button> <button>Delete</button>
Tea Post	Bank Transfer	7000.00	2023-07-01	2023-07-31	0.00	<button>Edit</button> <button>Delete</button>
VS Fast Food	Cash	7200.00	2023-08-01	2023-08-31	0.00	<button>Edit</button> <button>Delete</button>
Go Insta	Credit Card	4500.00	2023-10-01	2023-10-31	800.00	<button>Edit</button> <button>Delete</button>
Pooja Stationery	Debit Card	5800.00	2023-11-01	2023-11-30	0.00	<button>Edit</button> <button>Delete</button>
Mondego	Bank Transfer	6500.00	2023-12-01	2023-12-31	0.00	<button>Edit</button> <button>Delete</button>

- Here we are searching for the rent details of Dawat Food

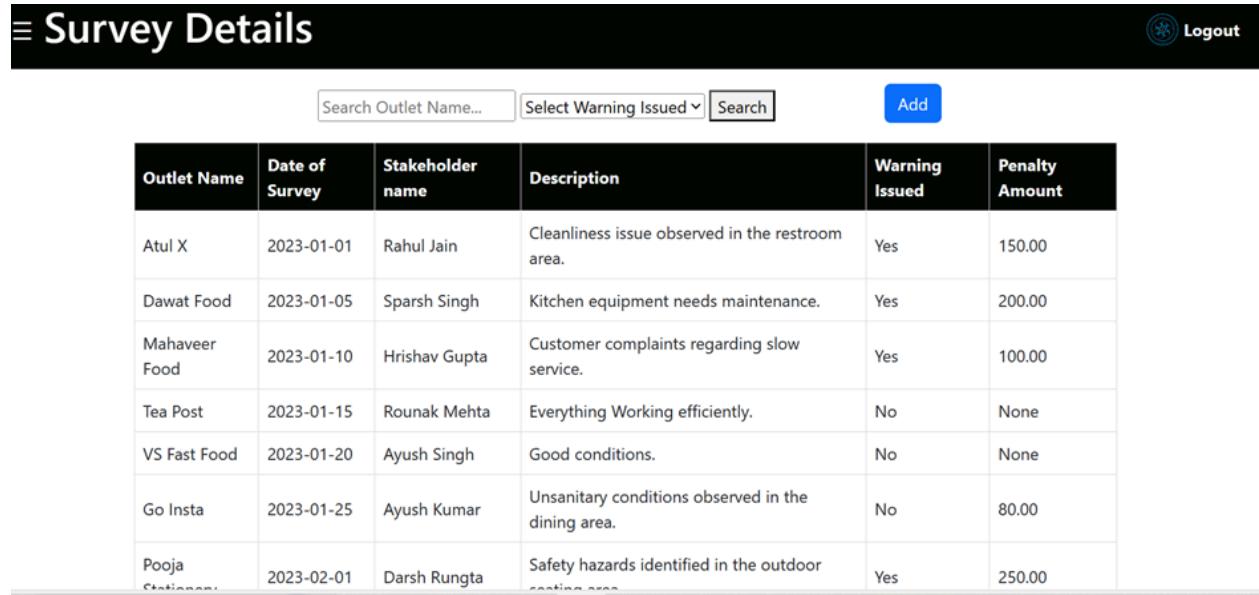


Outlet Name	Mode of Payment	Paid amount	Rent from date	Rent to date	Due amount	Action
Atul Bakery	Cash	8000.00	2023-09-01	2023-09-30	0.00	<button>Edit</button> <button>Delete</button>
Dawat Food	Credit Card	6200.00	2023-09-01	2023-09-30	1200.00	<button>Edit</button> <button>Delete</button>

- We will get the result as below for the above query.



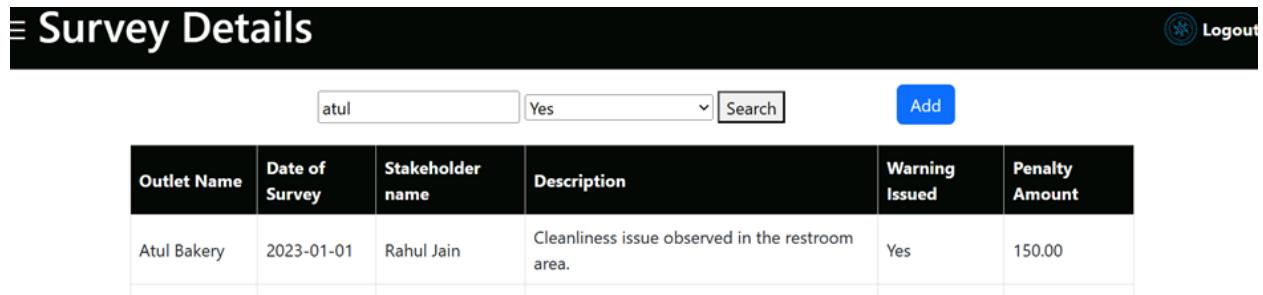
Outlet Name	Mode of Payment	Paid amount	Rent from date	Rent to date	Due amount	Action
Dawat Food	Credit Card	6200.00	2023-09-01	2023-09-30	1200.00	<button>Edit</button> <button>Delete</button>

**Survey Details table:**


The screenshot shows a table titled "Survey Details" with the following data:

Outlet Name	Date of Survey	Stakeholder name	Description	Warning Issued	Penalty Amount
Atul X	2023-01-01	Rahul Jain	Cleanliness issue observed in the restroom area.	Yes	150.00
Dawat Food	2023-01-05	Sparsh Singh	Kitchen equipment needs maintenance.	Yes	200.00
Mahaveer Food	2023-01-10	Hrishav Gupta	Customer complaints regarding slow service.	Yes	100.00
Tea Post	2023-01-15	Rounak Mehta	Everything Working efficiently.	No	None
VS Fast Food	2023-01-20	Ayush Singh	Good conditions.	No	None
Go Insta	2023-01-25	Ayush Kumar	Unsanitary conditions observed in the dining area.	No	80.00
Pooja	2023-02-01	Darsh Rungta	Safety hazards identified in the outdoor seating area.	Yes	250.00

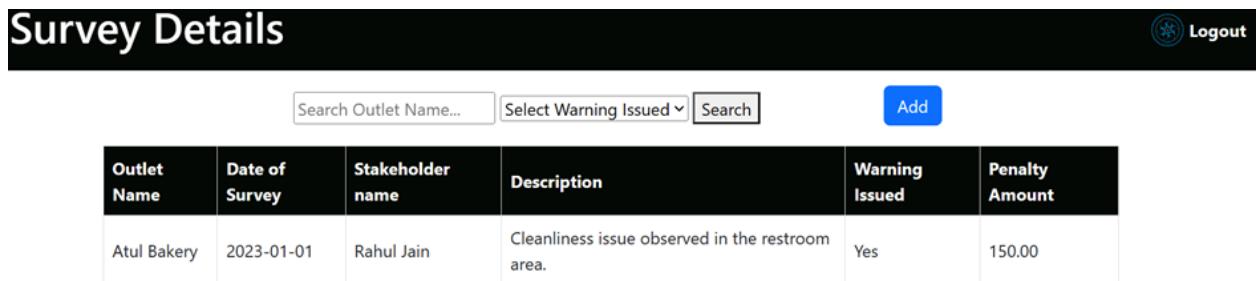
- Here we have searched for all the surveys that are done for the outlet with keyword **Atul**.



The screenshot shows a table titled "Survey Details" with the following data, filtered for the outlet "Atul":

Outlet Name	Date of Survey	Stakeholder name	Description	Warning Issued	Penalty Amount
Atul Bakery	2023-01-01	Rahul Jain	Cleanliness issue observed in the restroom area.	Yes	150.00

- The result is shown below.



The screenshot shows a table titled "Survey Details" with the following data, matching the previous search results:

Outlet Name	Date of Survey	Stakeholder name	Description	Warning Issued	Penalty Amount
Atul Bakery	2023-01-01	Rahul Jain	Cleanliness issue observed in the restroom area.	Yes	150.00

## RENAME OPERATION:

### Outlet table in Webapp

Home	Outlet Management						Logout
							Search Outlet... Search Add Rename
Stakeholder Details	Outlet Name	Location	Contact	Timing	Rating	Action	
Inventory Details	Atul Bakery	Location 1	1234567890	9:00 AM - 6:00 PM	4.5	<button>Edit</button> <button>Delete</button>	
Employee Details	Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2	<button>Edit</button> <button>Delete</button>	
Customer feedback	Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4.0	<button>Edit</button> <button>Delete</button>	
Rent details	Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8	<button>Edit</button> <button>Delete</button>	
Survey Details	VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6	<button>Edit</button> <button>Delete</button>	
	Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3	<button>Edit</button> <button>Delete</button>	
	Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	<button>Edit</button> <button>Delete</button>	
	Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	<button>Edit</button> <button>Delete</button>	
	2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4	<button>Edit</button> <button>Delete</button>	
	Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.9	<button>Edit</button> <button>Delete</button>	
	Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3	<button>Edit</button> <button>Delete</button>	

### Outlet table in Database (Workbench )

	Outlet_ID	Stakeholder_ID	Outlet_name	Location_name	Contact_No	timings	Ratings
▶	1	1	Atul Bakery	Location 1	1234567890	9:00 AM - 6:00 PM	4.5
	2	2	Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2
	3	3	Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4
	4	4	Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8
	5	5	VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6
	6	6	Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3
	7	7	Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1
	8	8	Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7
	9	9	2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4
	10	10	Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.9
	11	1	Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3
	12	2	Amul Shop	Location 12	2345678901	10:00 AM - 7:00 PM	4.1
	13	3	Krupa Generals	Location 13	3456789012	9:30 AM - 6:30 PM	4.5
	14	4	Just Chill Cafe	Location 14	4567890123	9:00 AM - 5:00 PM	4.2
	15	5	JK Grocery	Location 15	5678901234	8:00 AM - 4:00 PM	4.7
*	HULL	HULL	HULL	HULL	HULL	HULL	HULL

## Renaming column using Rename option:

- On clicking the rename button in the web page present on the top right corner, a pop up appears seeking input for the new column name.
- Here in the below example, we chose to rename the outlet column as “shop”.

The screenshot shows a web-based application titled "Outlet Management". A modal window titled "Rename Column" is open, prompting the user to "Please provide a new name for the outlet:" with a text input field containing "Shop". Below the input field is a blue "Rename" button. In the background, there is a table with columns for "Outlet Name", "Location", "Phone Number", "Opening Time", "Rating", and "Action". The table contains ten rows of data, each with a "Rename" button in the "Action" column.

Outlet Name	Location	Phone Number	Opening Time	Rating	Action
Atul Bakery	Location 1	12345678901	10:00 AM - 7:00 PM	4.2	Edit Delete
Dawat Food	Location 2	2345678901	9:30 AM - 6:30 PM	4.0	Edit Delete
Mahaveer Food	Location 3	3456789012	9:00 AM - 5:00 PM	4.8	Edit Delete
Tea Post	Location 4	4567890123	8:00 AM - 4:00 PM	4.6	Edit Delete
VS Fast Food	Location 5	5678901234	10:30 AM - 7:30 PM	4.3	Edit Delete
Go Insta	Location 6	6789012345	9:00 AM - 5:30 PM	4.1	Edit Delete
Pooja Stationery	Location 7	7890123456	8:30 AM - 5:00 PM	4.7	Edit Delete
Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.4	Edit Delete
2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.9	Edit Delete
Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.3	Edit Delete
Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3	Edit Delete

- Once we finish the above step, a confirmation message appears as shown below.

The screenshot shows the same "Outlet Management" application after the renaming process. A confirmation dialog box is displayed in the center, stating "Column renamed successfully" and featuring an "OK" button. The background table remains the same as in the previous screenshot.

- The change has been reflected in the webpage as shown below.

**Outlet Management**

Shop	Location	Contact	Timing	Rating	Action
Atul Bakery	Location 1	1234567890	9:00 AM - 6:00 PM	4.5	<button>Edit</button> <button>Delete</button>
Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2	<button>Edit</button> <button>Delete</button>
Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4.0	<button>Edit</button> <button>Delete</button>
Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8	<button>Edit</button> <button>Delete</button>
VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6	<button>Edit</button> <button>Delete</button>
Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3	<button>Edit</button> <button>Delete</button>
Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1	<button>Edit</button> <button>Delete</button>
Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7	<button>Edit</button> <button>Delete</button>
2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4	<button>Edit</button> <button>Delete</button>
Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.9	<button>Edit</button> <button>Delete</button>
Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3	<button>Edit</button> <button>Delete</button>

The made change has been reflected in the database (workbench platform) as shown below.

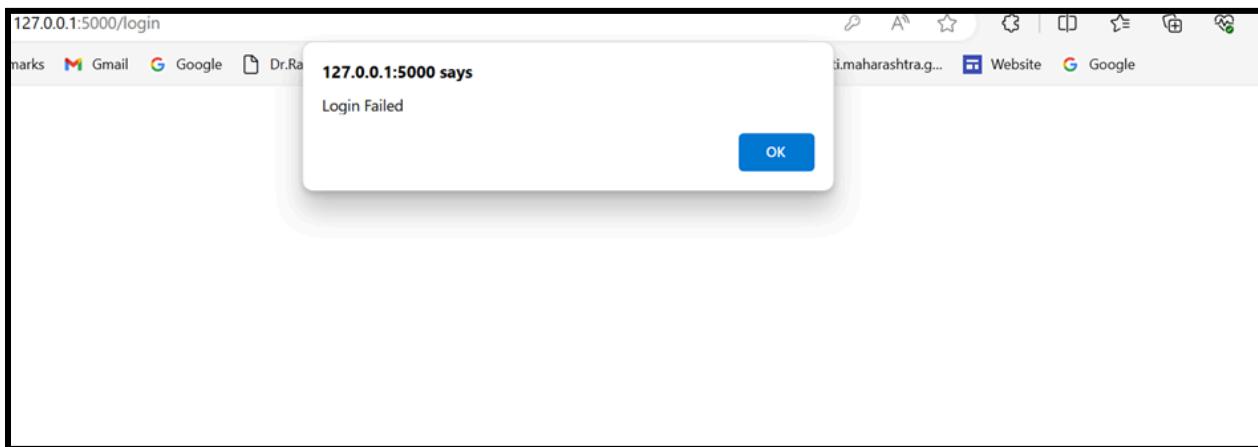
64 • `select * from Outlet;`

	Outlet_ID	Stakeholder_ID	Shop	Location_name	Contact_No	timings	Ratings
▶	1	1	Atul Bakery	Location 1	1234567890	9:00 AM - 6:00 PM	4.5
	2	2	Dawat Food	Location 2	2345678901	10:00 AM - 7:00 PM	4.2
	3	3	Mahaveer Food	Location 3	3456789012	9:30 AM - 6:30 PM	4
	4	4	Tea Post	Location 4	4567890123	9:00 AM - 5:00 PM	4.8
	5	5	VS Fast Food	Location 5	5678901234	8:00 AM - 4:00 PM	4.6
	6	6	Go Insta	Location 6	6789012345	10:30 AM - 7:30 PM	4.3
	7	7	Pooja Stationery	Location 7	7890123456	8:30 AM - 5:30 PM	4.1
	8	8	Mondego	Location 8	8901234567	9:00 AM - 6:00 PM	4.7
	9	9	2 degree Cafe	Location 9	9012345678	9:00 AM - 5:30 PM	4.4
	10	10	Mini 2 degree	Location 10	1234567891	10:00 AM - 8:00 PM	4.9
	11	1	Samyak Shop	Location 11	1234567890	9:00 AM - 6:00 PM	4.3
	12	2	Amul Shop	Location 12	2345678901	10:00 AM - 7:00 PM	4.1
	13	3	Krupa Generals	Location 13	3456789012	9:30 AM - 6:30 PM	4.5
	14	4	Just Chill Cafe	Location 14	4567890123	9:00 AM - 5:00 PM	4.2
	15	5	JK Grocery	Location 15	5678901234	8:00 AM - 4:00 PM	4.7

### **Login failed for the stakeholder view and student view :**

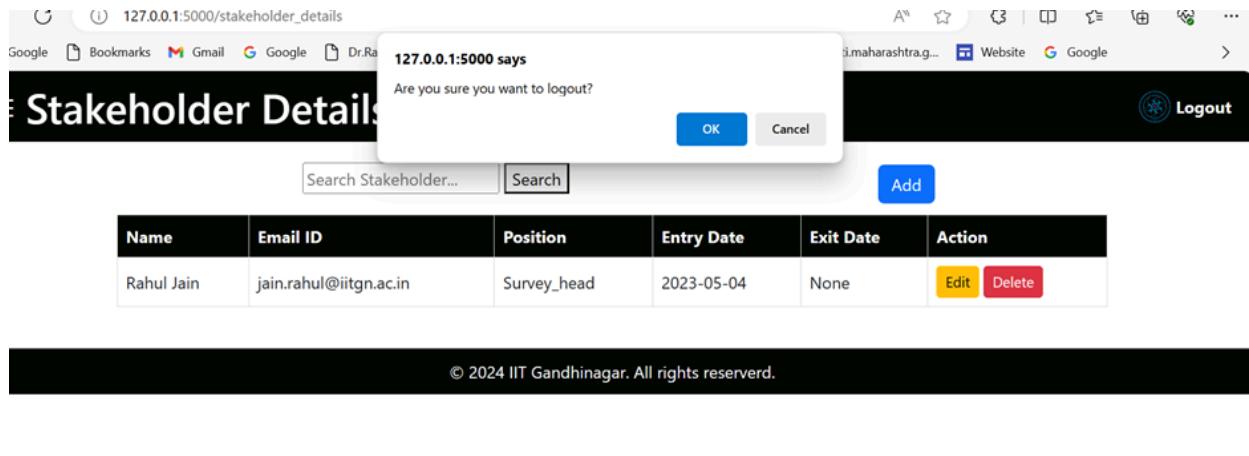
- students will not be allowed to log in to stakeholder mode.
- In some scenario stakeholders will not allowed to login student mode
- If a user enters an incorrect email address or password during the login process, the authentication system will detect the discrepancy and deny access to the application.
- Users are required to provide accurate and valid login credentials to gain access to their respective accounts.

Upon a failed login attempt, the system will display an error message alerting the user that their authentication failed due to incorrect details. The result looks like below.



### Logout page :

- On clicking on the top right side of the logout option, a pop message appears to confirm the logout.



Clicking on OK will take you to the Login page.

## **Contribution details by each group member:**

**DHARAVATH MAHESH(22110073):** Group(G2)

- Brainstorm wireframing on design for web pages
- Helping in backend development
- Report documentation

**SHUBHAM KSHIRSAGAR (23210097):** Group(G2)

- Created entire backend routing of the web pages developed by the frontend team.
- Connection of the MySQL Database to the backend
- Displayed all the contents from MYSQL database onto the webpage, And alter the frontend accordingly to accommodate it.
- Implemented Login Feature, and created Different views for Stakeholder and Student
- Implemented INSERT feature such that dynamic execution takes place at frontend as well as backend.
- WHERE Feature Implementation, in order to search according to user and stakeholder convenience.
- Accompanied Edit, Delete Operation and Document Formation

**MALLEPOGULA CHARAN TEJA(22110136):** Group(G2)

- Brainstorm wireframing on the web pages
- Helping in backend development
- Report documentation

**SHIPRA KETHWALIA(23210091):** Group(G2)

- Created the prototype of the web application.
- Helped in Frontend Development of the webpages and corrected it as per the requirement at backend.
- Worked on implementation of ADD, EDIT functionality for the dynamic execution both at frontend as well as backend.
- Brainstormed in the implementation of the backend routing.
- Helped in report documentation.

**HARSH KUMAR KESHRI (22110094):** Group(G1)

- Helped in creating the CSS file for different pages
- Helped in creating the templates (web pages) with dummy data in the table using HTML
- Helped in implementing the add, edit and delete buttons on some pages
- Crafted the Final Report

**KRISH RAJ (20110160): Group(G1)**

- Designed and implemented the whole web application's front end using HTML/CSS/JS.
- Ensured proper handling of user input and validation to prevent errors and ensure data integrity.
- Implement, Edit, Delete, and Rename features such that dynamic execution takes place at the front and backend.
- Helped in the Insert feature.
- Helped in documentation.

**YAJURVEDA BODALA (19110077) : Group(G1)****SUSMITA R (22110265) :Group (G1)**

- Frontend development and creating the web pages and tables using HTML
- Frontend designing
- Compilation of report.

**Reference:**

[1]Nyakundi, H. (2021) *How to write a good README file for your github project*, freeCodeCamp.org.<https://www.freecodecamp.org/news/how-to-write-a-good-readme-file>

[2]MySQL Workbench 8.0.36 (no date) MySQL. Available at:  
<https://dev.mysql.com/downloads/workbench/>