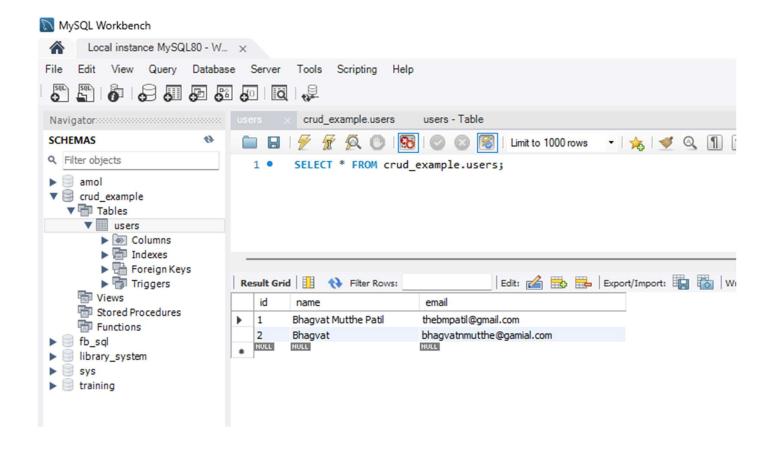
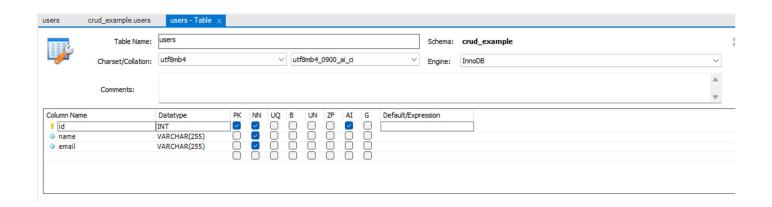
# DB Connection task Using MYSQL and JS

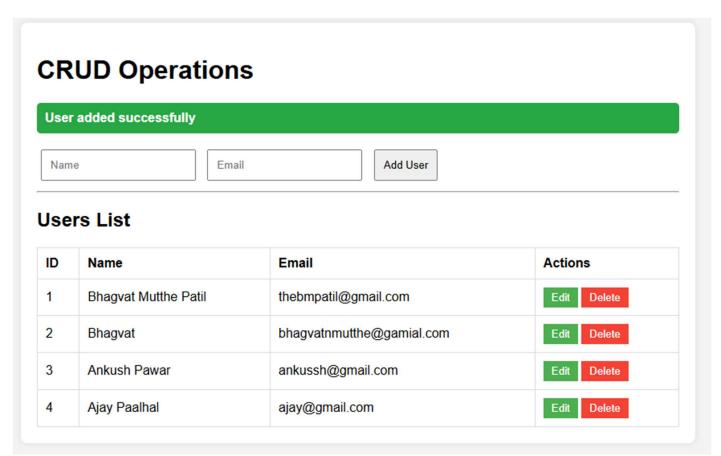
## Steeps:

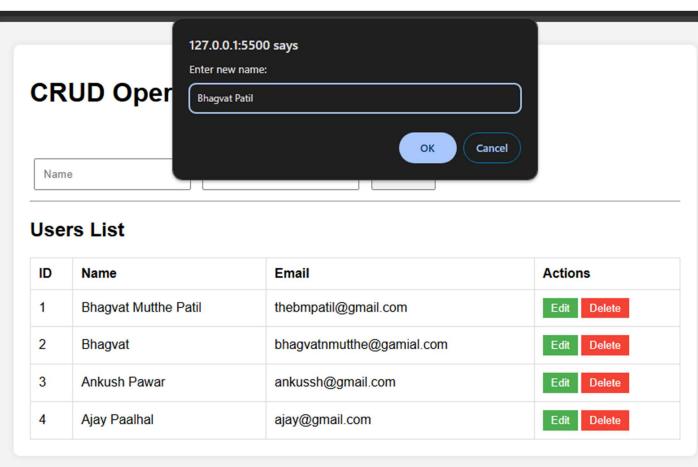
Prereq { Node.js , MYSQL installed)

- 1) Create a folder for project
- 2) Open with VS Code -> open terminal
- 3) Type npm init -y
- 4) Then create below files
- 5) Open terminal again execute command: npm i cors express mysql2 body-parser









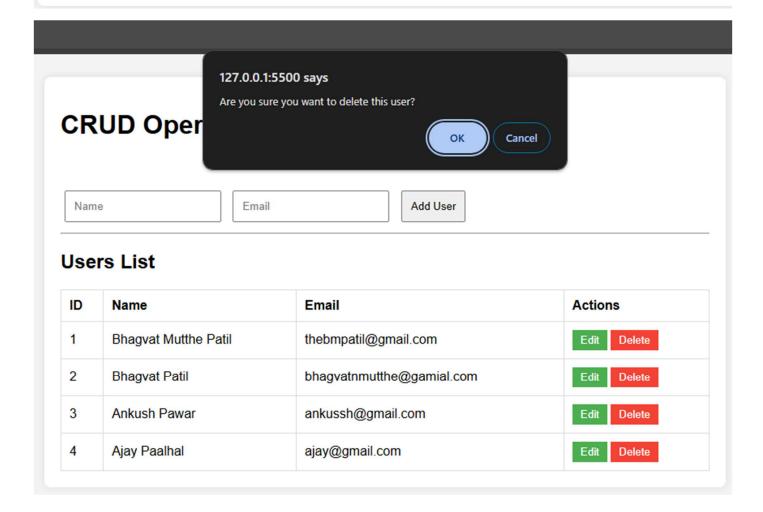
# **CRUD Operations**

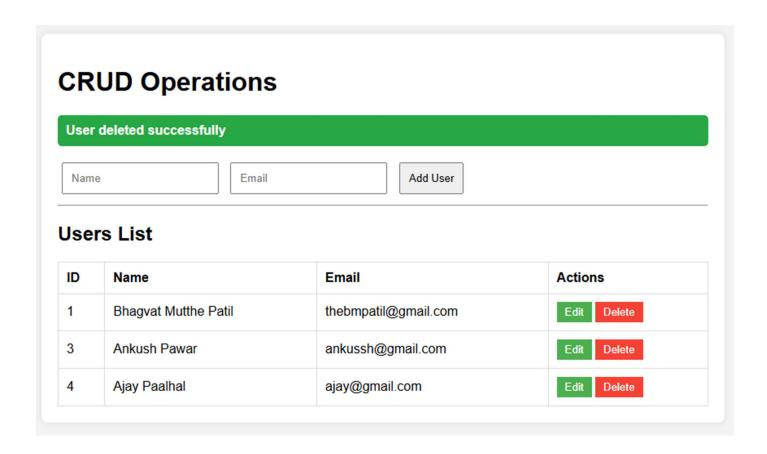
## User updated successfully

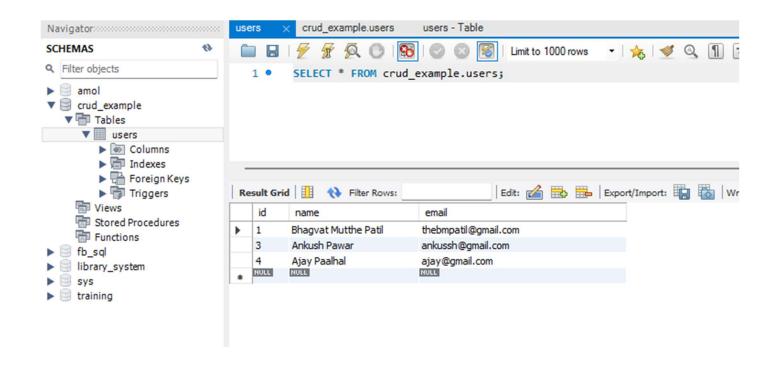
Name Email Add User

## **Users List**

ID	Name	Email	Actions
1	Bhagvat Mutthe Patil	thebmpatil@gmail.com	Edit Delete
2	Bhagvat Patil	bhagvatnmutthe@gamial.com	Edit Delete
3	Ankush Pawar	ankussh@gmail.com	Edit Delete
4	Ajay Paalhal	ajay@gmail.com	Edit Delete







```
mysql> show tables;
| Tables_in_crud_example |
users
1 row in set (0.00 sec)
mysql> desc users;
 -----+-----+-----+
| Field | Type | Null | Key | Default | Extra
           | NO | PRI | NULL | auto_increment |
id int
| name | varchar(255) | NO | | NULL |
email | varchar(255) | NO | NULL |
 -----+----+----+
3 rows in set (0.00 sec)
mysql> show create table users;
| Table | Create Table
| users | CREATE TABLE `users` (
'id' int NOT NULL AUTO_INCREMENT,
'name' varchar(255) NOT NULL,
'email' varchar(255) NOT NULL,
PRIMARY KEY ('id')
) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
1 row in set (0.00 sec)
mysql>
mysql> select *from users;
                                    email
   id | name
                                     thebmpatil@gmail.com
        Bhagvat Mutthe Patil |
                                     ankussh@gmail.com
    3
       Ankush Pawar
```

| ajay@gmail.com

4 | Ajay Paalhal

3 rows in set (0.00 sec)

```
const express = require("express");
const mysql = require("mysql2");
const bodyParser = require("body-parser");
const cors = require("cors");
const app = express();
const port = 3000;
// MySQL Database connection
const db = mysql.createConnection({
 host: "localhost",
 user: "root",
 password: "0787",
 database: "crud_example",
 port: "3308",
});
db.connect((err) => {
 if (err) throw err;
 console.log("Connected to the database");
});
// Middleware
app.use(cors());
app.use(bodyParser.json());
// Root route
app.get("/", (req, res) => {
 res.send("Welcome to the CRUD API!");
});
// Routes for CRUD operations
app.post("/add-user", (req, res) => {
 const { name, email } = req.body;
 const query = "INSERT INTO users (name, email) VALUES (?, ?)";
 db.query(query, [name, email], (err, result) => {
    if (err) throw err;
    res.send("User added successfully");
 });
});
app.get("/users", (req, res) => {
 const query = "SELECT * FROM users";
  db.query(query, (err, result) => {
    if (err) throw err;
    res.json(result);
 });
});
```

```
// Update
app.put("/update-user/:id", (req, res) => {
 const { id } = req.params;
 const { name, email } = req.body;
 const query = "UPDATE users SET name = ?, email = ? WHERE id = ?";
 db.query(query, [name, email, id], (err, result) => {
   if (err) throw err;
   res.send("User updated successfully");
 });
});
// Delete
app.delete("/delete-user/:id", (req, res) => {
 const { id } = req.params;
 const query = "DELETE FROM users WHERE id = ?";
 db.query(query, [id], (err, result) => {
   if (err) throw err;
   res.send("User deleted successfully");
 });
});
// Start the server
app.listen(port, () => {
  console.log(`Server running at http://localhost:${port}`);
});
```

## Script.js

```
const apiUrl = "http://localhost:3000";
function showMessage(message, type = "success") {
  const messageDiv = document.getElementById("message");
  messageDiv.textContent = message;
  messageDiv.className = `message ${type}`;
  setTimeout(() => {
    messageDiv.textContent = "";
    messageDiv.className = "message";
  }, 3000); // Hide the message after 3 seconds
// Fetch all users
function fetchUsers() {
  fetch(`${apiUrl}/users`)
    .then((response) => response.json())
    .then((data) => {
      const usersTable = document.querySelector("#usersTable tbody");
      usersTable.innerHTML = "";
     data.forEach((user) => {
```

```
const row = document.createElement("tr");
        row.innerHTML = `
                    ${user.id}
                    ${user.name}
                    ${user.email}
                    <button class="edit" onclick="editUser(${user.id}, '${user.name}',</pre>
'${user.email}')">Edit</button>
                        <button class="delete"</pre>
onclick="deleteUser(${user.id})">Delete</button>
                    usersTable.appendChild(row);
      });
    });
document.getElementById("addUserForm").addEventListener("submit", (e) => {
  e.preventDefault();
  const name = document.getElementById("name").value;
  const email = document.getElementById("email").value;
  fetch(`${apiUrl}/add-user`, {
    method: "POST",
    headers: {
      "Content-Type": "application/json",
    },
    body: JSON.stringify({ name, email }),
  }).then((response) => {
    if (response.ok) {
     fetchUsers();
     document.getElementById("addUserForm").reset();
     showMessage("User added successfully");
    } else {
      showMessage("Error adding user", "error");
 });
});
function editUser(id, name, email) {
  const newName = prompt("Enter new name:", name);
  const newEmail = prompt("Enter new email:", email);
  if (newName && newEmail) {
    fetch(`${apiUrl}/update-user/${id}`, {
     method: "PUT",
     headers: {
        "Content-Type": "application/json",
      },
      body: JSON.stringify({ name: newName, email: newEmail }),
    }).then((response) => {
```

```
if (response.ok) {
        fetchUsers();
        showMessage("User updated successfully");
        showMessage("Error updating user", "error");
    });
 }
// Delete user
function deleteUser(id) {
 if (confirm("Are you sure you want to delete this user?")) {
    fetch(`${apiUrl}/delete-user/${id}`, {
     method: "DELETE",
    }).then((response) => {
     if (response.ok) {
        fetchUsers();
        showMessage("User deleted successfully");
      } else {
        showMessage("Error deleting user", "error");
   });
 }
// Initialize
fetchUsers();
```

#### index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>CRUD Operations</title>
    <link rel="stylesheet" href="style.css" />
  </head>
    <div class="container">
      <h1>CRUD Operations</h1>
      <!-- Message Display -->
      <div id="message" class="message"></div>
      <!-- Add User Form -->
      <form id="addUserForm">
        <input type="text" id="name" placeholder="Name" required />
       <input type="email" id="email" placeholder="Email" required />
```

```
<button type="submit">Add User
   </form>
   <hr />
   <!-- Users List -->
   <h2>Users List</h2>
   ID
       Name
       Email
       Actions
      </thead>
     </div>
  <script src="script.js"></script>
 </body>
</html>
```

## Style.css

```
font-family: Arial, sans-serif;
 background-color: #f4f4f4;
 padding: 20px;
.container {
 max-width: 800px;
 margin: 0 auto;
 background: #fff;
 padding: 20px;
 border-radius: 8px;
 box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
form button {
 padding: 10px;
 margin: 5px;
button {
 cursor: pointer;
table {
```

```
width: 100%;
 margin-top: 20px;
 border-collapse: collapse;
table,
td {
 border: 1px solid #ddd;
td {
 padding: 10px;
 text-align: left;
button.edit,
button.delete {
 background-color: #4caf50;
 color: white;
 border: none;
 padding: 5px 10px;
 cursor: pointer;
button.delete {
 background-color: #f44336;
.message {
   padding: 10px;
   margin-bottom: 15px;
   border-radius: 5px;
   font-weight: bold;
   display: none;
  .message.success {
    background-color: #28a745;
    color: white;
  .message.error {
   background-color: #dc3545;
    color: white;
  #message {
    display: block;
```