Event Management System

Objectives

- To develop a simple web-based event management system.
- To implement **Admin and User login** functionality.
- To allow **Admin to manage events** (Create, Read, Update, Delete).
- To display a **participant list** for each event.
- To store and view data using **MySQL** or **JSON**.
- To gain hands-on experience with **HTML, CSS, JavaScript, Node.js, and MySQL** integration.

Tools and Technologies Used

Category	Tools/Technologies
Frontend	HTML, CSS, JavaScript
Backend	Node.js, Express.js
Database	MySQL
Hosting	GitHub Pages / Netlify (for frontend), MySQL locally
Code Editor	Visual Studio Code
Version Control	Git & GitHub

System Modules

Admin Side

- **Login Dashboard**
- Manage events (**CRUD**: Create, Read, Update, Delete)
- View participant list per event
- Role-based access (Admin vs User)

Code Snippets

1 Database Connection (Node.js)

```
const mysql = require('mysql2');
const con = mysql.createConnection({
  host: 'localhost',
  user: 'root',
  password: 'root',
  database: 'eventdb'
});
con.connect(err => {
  if (err) throw err;
  console.log(" MySQL Connected!");
});
```

2 Register User

```
app.post('/register', (req, res) => {
  const { username, password, role } = req.body;
  const sql = "INSERT INTO users (username, password, role) VALUES (?, ?,
?)";
  con.query(sql, [username, password, role], (err) => {
    if (err) throw err;
    res.send('✅ Registered Successfully');
  });
});
```

3 Admin CRUD (Example)

```
app.post('/add-event', (req, res) => {
  const { name, date, location } = req.body;
  con.query("INSERT INTO events (name, date, location) VALUES (?, ?, ?)",
[name, date, location], (err) => {
    if (err) throw err;
    res.send('Event Added!');
  });
});
```

Database Tables

◈ Table: `users`

id	username	password	role
1	admin	admin123	admin
2	user1	user123	user

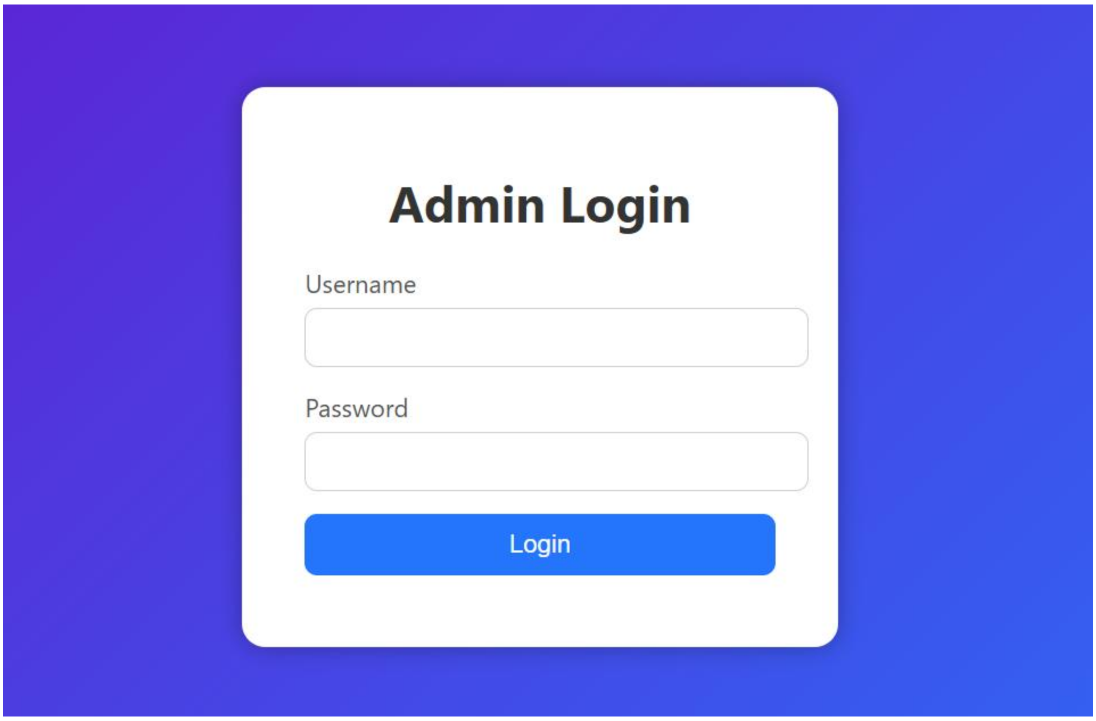
◈ Table: `events`

id	name	date	location
1	Tech Talk	2025-11-15	Seminar Hall

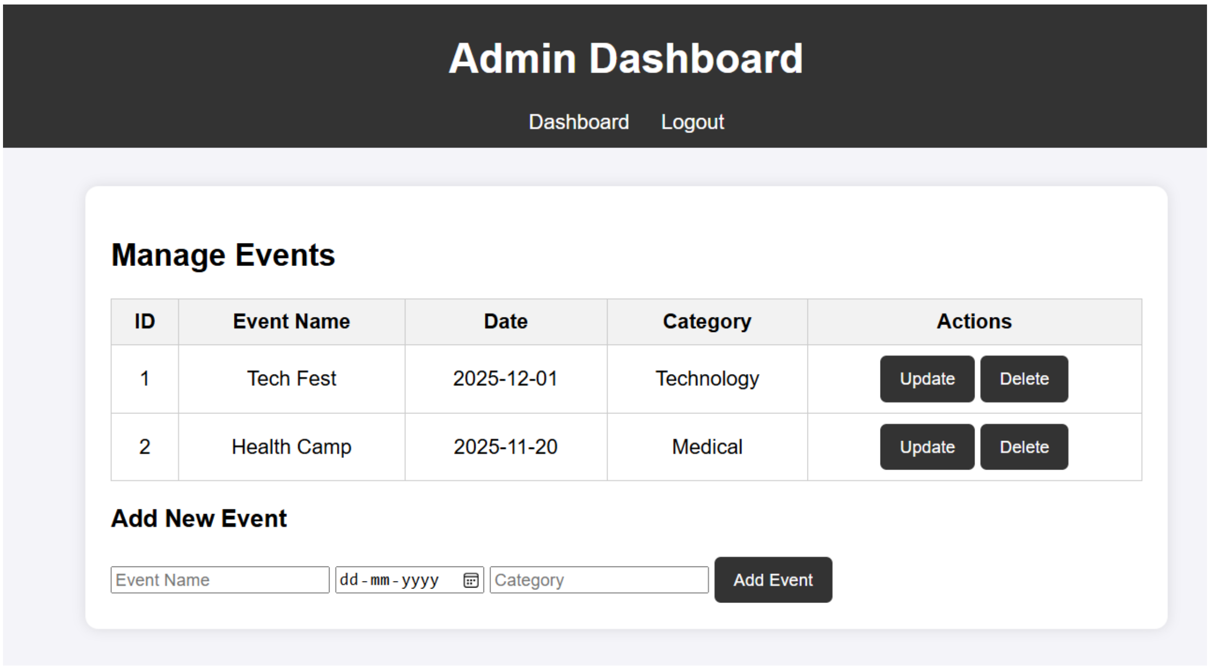
◈ Table: `participants`

id	name	event_id
1	Neha	1

1. Create a **GitHub repository**
2. Upload all project files (HTML, CSS, JS, JSON, `Documentation.pdf`)
3. Go to **Settings → Pages → Deploy from main branch**
4. After a few seconds, access your hosted project at:
5. `https://yourusername.github.io/event-management-system/`
6. You can open your documentation at:
7. `https://yourusername.github.io/event-management-system/Documentation.pdf`



Admin Login

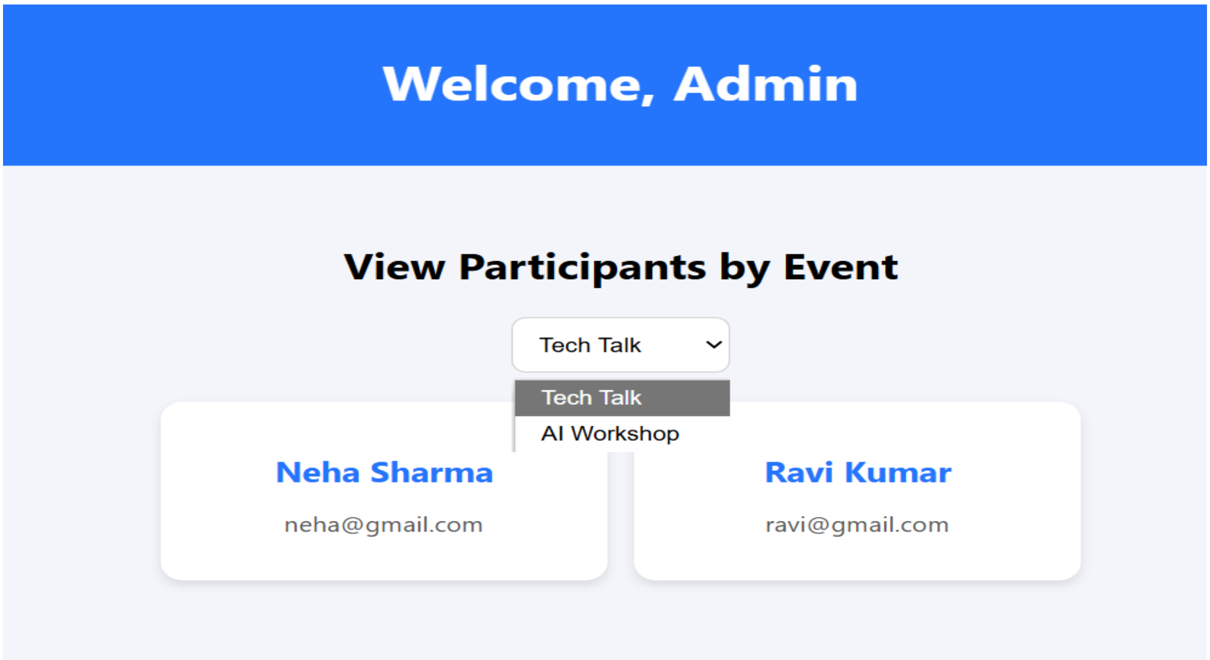


Admin Dashboard

Manage Events

ID	Event Name	Date	Category	Actions
1	Tech Fest	2025-12-01	Technology	Update Delete
2	Health Camp	2025-11-20	Medical	Update Delete

Add New Event



Welcome, Admin

View Participants by Event

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