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EVENT MANAGEMENT SYSTEM

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INDEX

1. AIM

To design and develop a web-based Event Management System that allows organizers to create and manage events, while enabling attendees to view, join, and cancel participation in events seamlessly.

2. INTRODUCTION

Event management is a complex task involving multiple stakeholders and logistical considerations. Traditional methods often rely on paper-based systems, manual tracking, and disconnected tools that can result in confusion, inefficiency, and errors. In an age of digital transformation, there is a growing need for smart, efficient, and centralized solutions to manage events.

This project aims to address these needs by building an Event Management System using Java (JSP/Servlets), a MySQL database, and a web-based frontend. The system is divided into two major user roles: Organizers and Attendees. Each role has customized views and functionalities tailored to their requirements.

The organizer can create events, modify event details, cancel events, and track participation. Attendees can view upcoming events, join them, or cancel their participation. This interactive system ensures transparency, ease of use, and efficient data management.

3. OBJECTIVE

- To provide an online platform where organizers can manage all aspects of event creation and control.
- To enable attendees to easily browse, join, or cancel participation in events.
- To maintain a user-friendly interface with responsive design.
- To enforce role-based access control for security and streamlined user experience.
- To manage and display real-time data related to event attendance and status.
- To implement basic session management and security measures.

4. PROGRAMMING LANGUAGES USED

COMPONENT	TECHNOLOGY USED
1.Frontend	HTML, CSS, Bootstrap
2.Backend	Java (JSP & Servlets)
3.Database	MySQL
4.Server	Apache Tomcat
5.Development IDE	Apache NetBeans
6.Build Tool	Apache Maven

5. IMPLEMENTATION

Database Design

Tables:

users: Stores login details, roles (organizer/attendee).

events: Holds event information (title, description, date, location, organizer_id).

attendee_event: Links attendees with events and tracks status (joined, cancelled, pending).

Workflow

1. User logs in (organizer or attendee).
2. Session is created and role is checked.
3. Based on role, user is directed to their respective dashboard.
4. Organizer can:
    - Add events via a form.
    - Edit or cancel events.
    - View participation stats.
5. Attendee can:

- View upcoming events.
- Join or cancel participation.
- Status is updated in the database.

User Interface

- Bootstrap used for modern, responsive design.
- Navigation bars and forms styled for usability.
- Feedback via alerts (success, warning, error).

Security Measures

- Session-based login control.
- Role validation on each page.
- Server-side validation for data integrity.

6. DEPENDENCIES

Software Dependencies

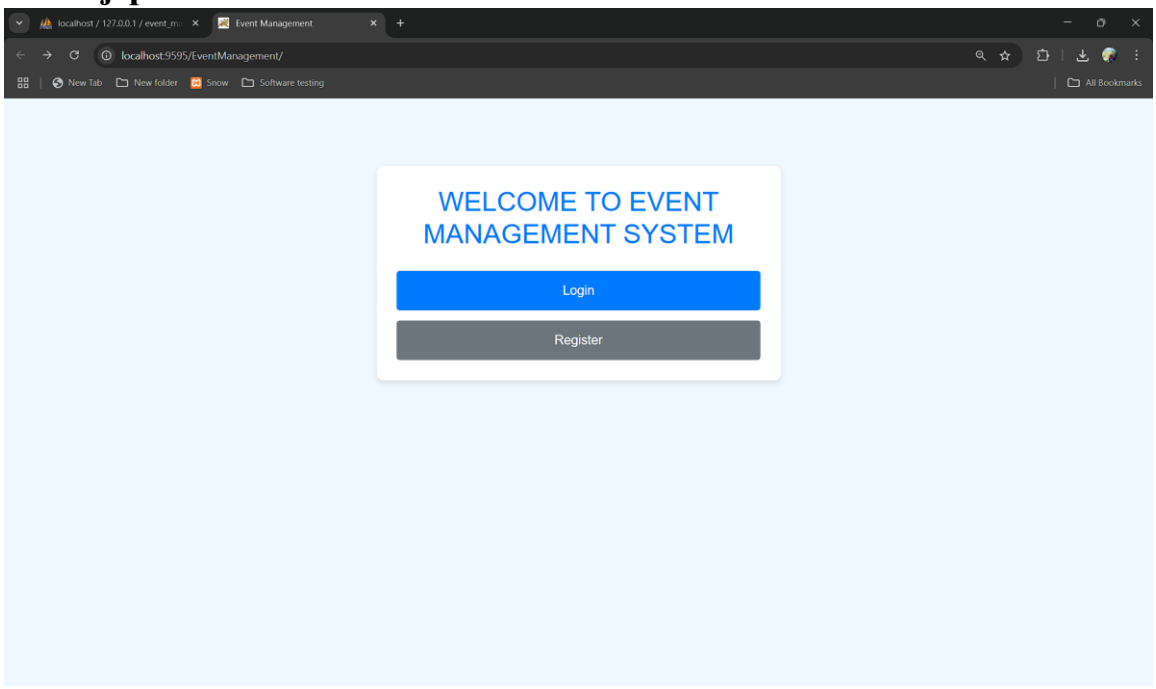
- Java JDK (v8+)
- Apache Tomcat (v9+)
- MySQL Server
- JDBC Driver

External Libraries

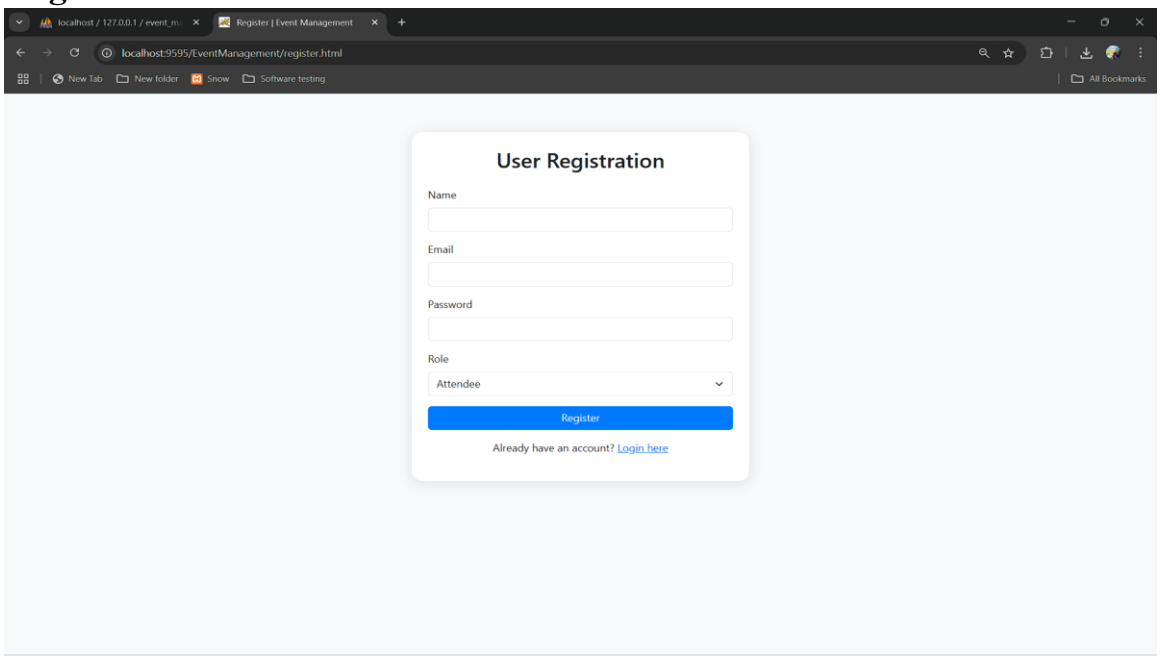
- Bootstrap CDN (for UI styling)
- JDBC Connector JAR (for DB interaction)

7. RESULTS

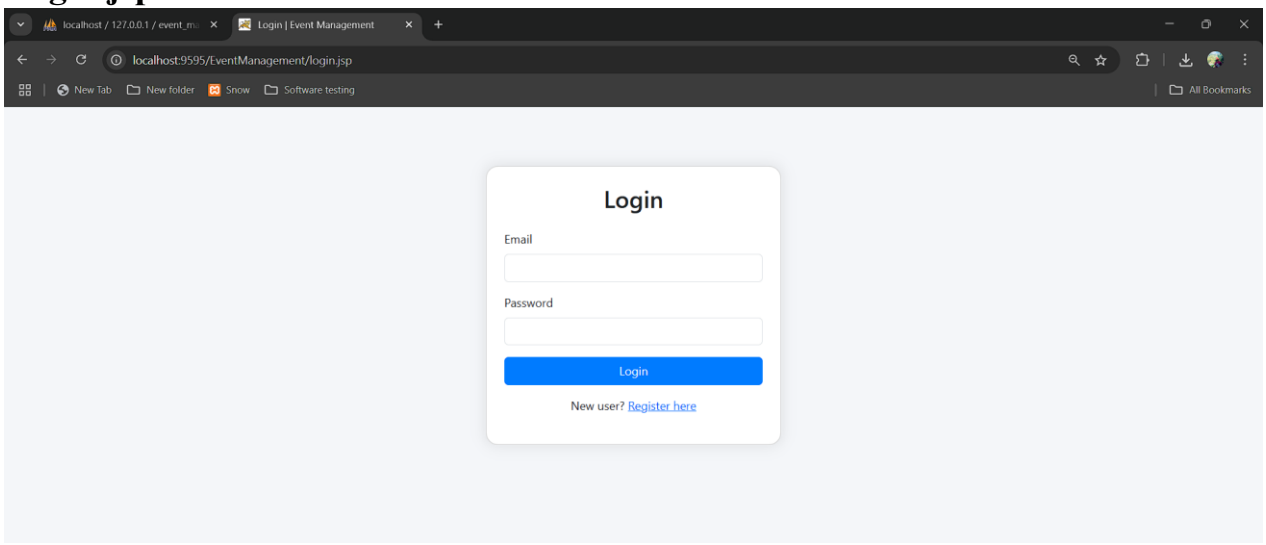
index.jsp



Register.html



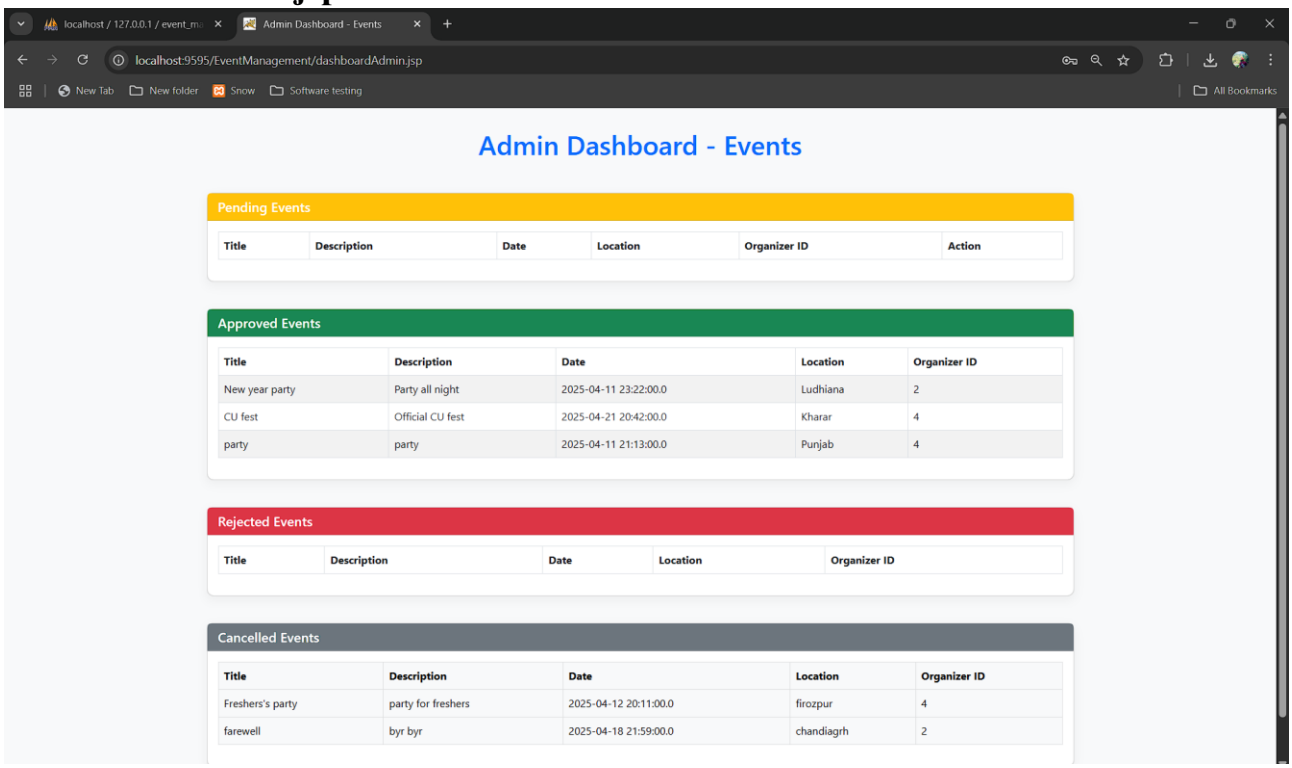
Login.jsp



ADMIN Login

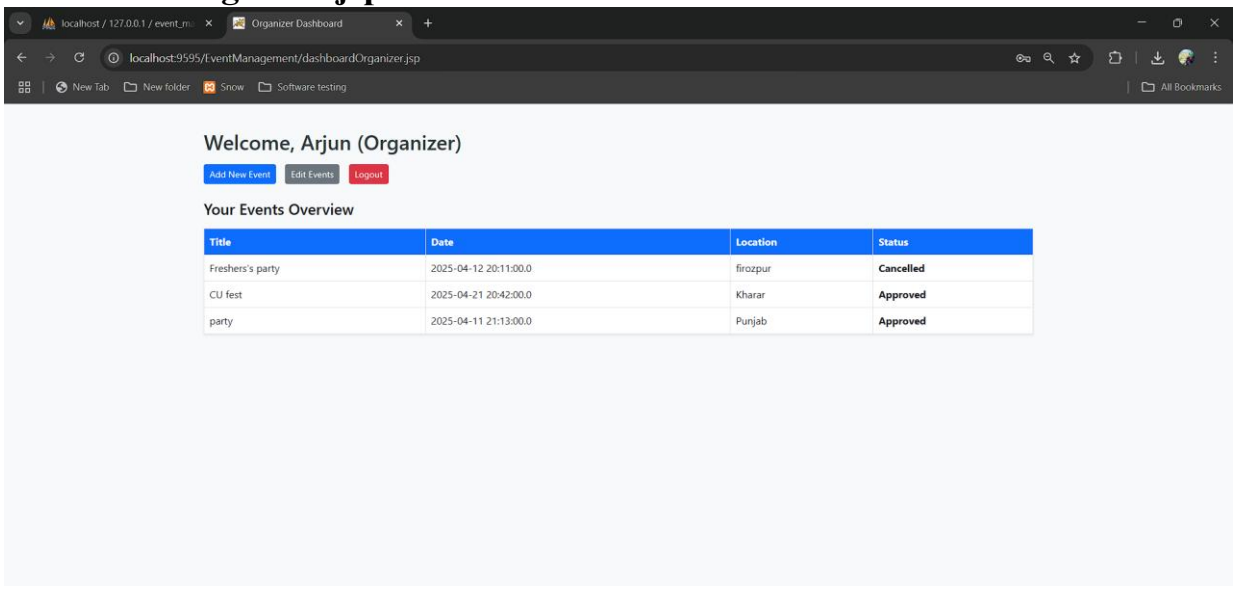
Email:admin@example.com
Password: admin123

dashboardAdmin.jsp

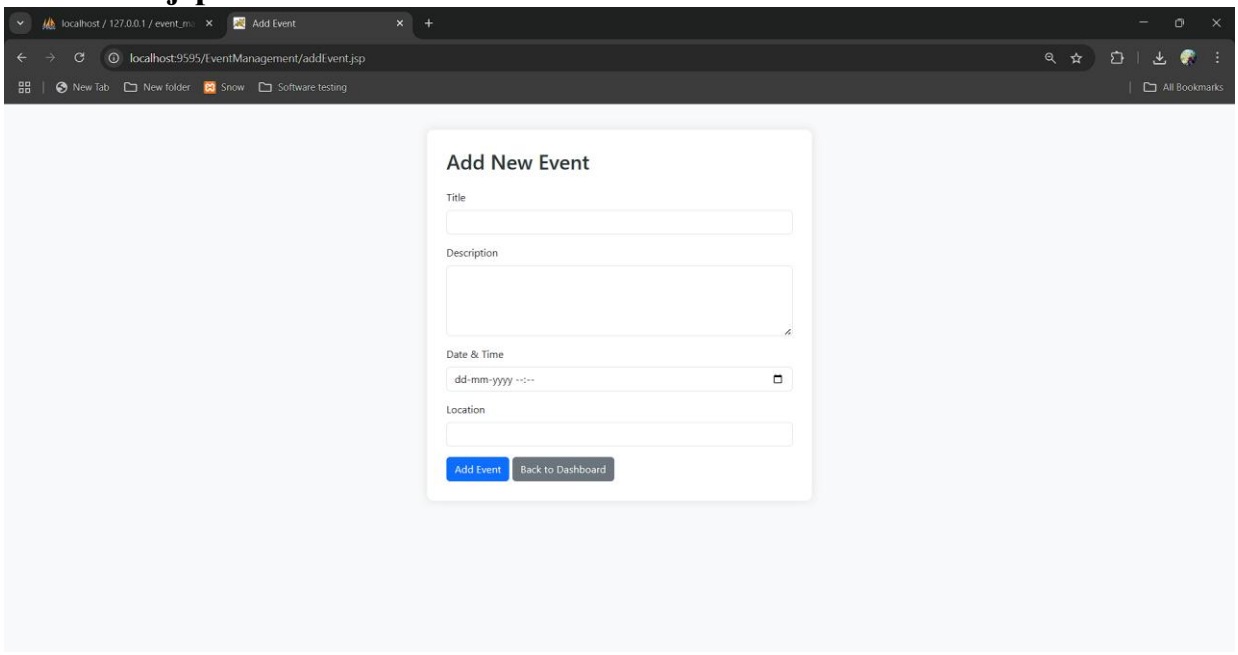


Orginiser:

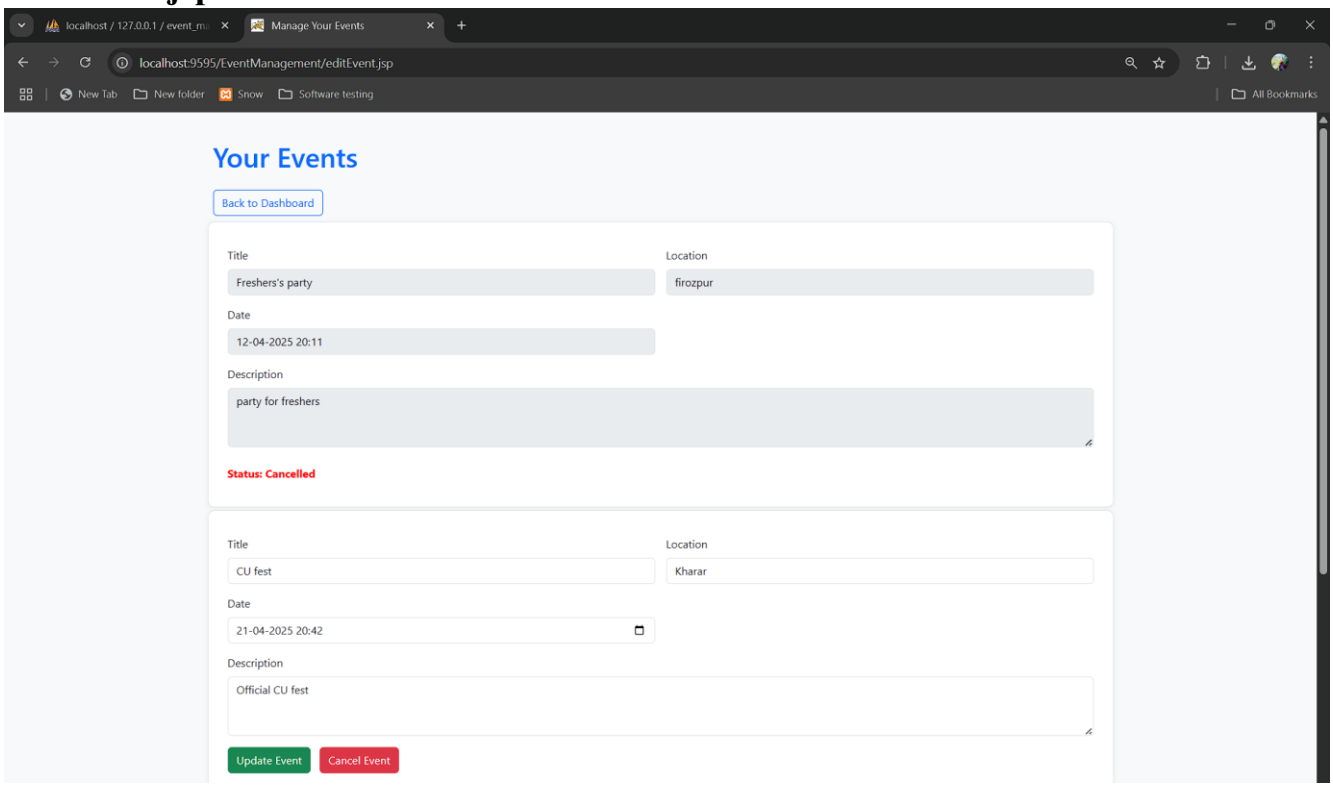
dashboardOrginizer.jsp



addEvent.jsp



editEvent.jsp



DATABASE TABLES:

users

	id	name	email	password	role
Edit Copy Delete	1	Prabhjot singh	lprabh096@gmail.com	12345678	attendee
Edit Copy Delete	2	Mohit	mohit@gmail.com	123456	organizer
Edit Copy Delete	4	Arjun	arjun@gmail.com	arjun	organizer
Edit Copy Delete	5	Admin User	admin@example.com	admin123	admin

events

	id	title	description	date	location	organizer_id	status
Edit Copy Delete	1	Freshers's party	party for freshers	2025-04-12 20:11:00	firozpur	4	cancelled
Edit Copy Delete	3	farewell	byr byr	2025-04-18 21:59:00	chandiagrh	2	cancelled
Edit Copy Delete	4	New year party	Party all night	2025-04-11 23:22:00	Ludhiana	2	approved
Edit Copy Delete	5	CU fest	Official CU fest	2025-04-21 20:42:00	Kharar	4	approved
Edit Copy Delete	6	party	party	2025-04-11 21:13:00	Punjab	4	approved

registration

	id	user_id	event_id	status
Edit Copy Delete	2	1	1	registered
Edit Copy Delete	3	1	4	registered
Edit Copy Delete	4	1	5	registered
Edit Copy Delete	5	1	6	registered

8. CONCLUSION

This project demonstrates the successful development of a complete web-based Event Management System tailored to both organizers and attendees. It simplifies event workflows, ensures accurate record-keeping, and provides a clean interface for interaction. With potential for further features and enhancements, the system lays a strong foundation for real-world deployment in colleges, organizations, or public use.

9. FUTURE SCOPE:

- Email notifications for registration/cancellation.
- QR Code-based check-ins.
- Admin role to monitor all users and events.
- File upload for event posters.
- Exporting attendance as Excel/CSV.