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EVENT MANAGEMENT SYSTEM



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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

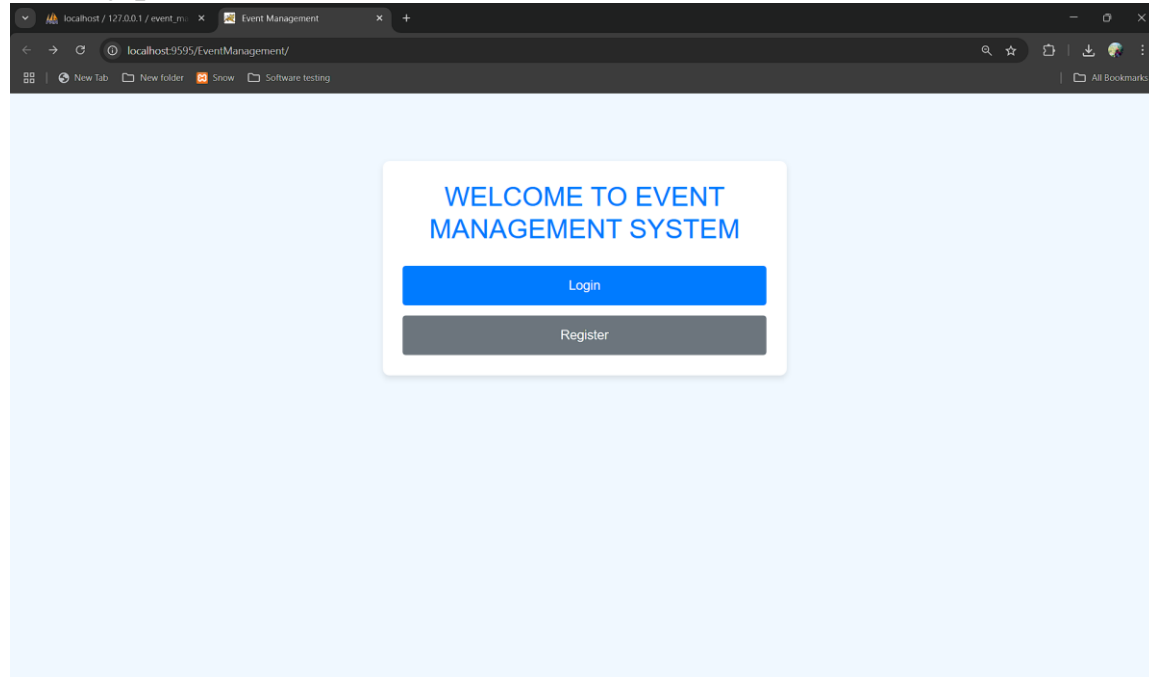
External Libraries

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

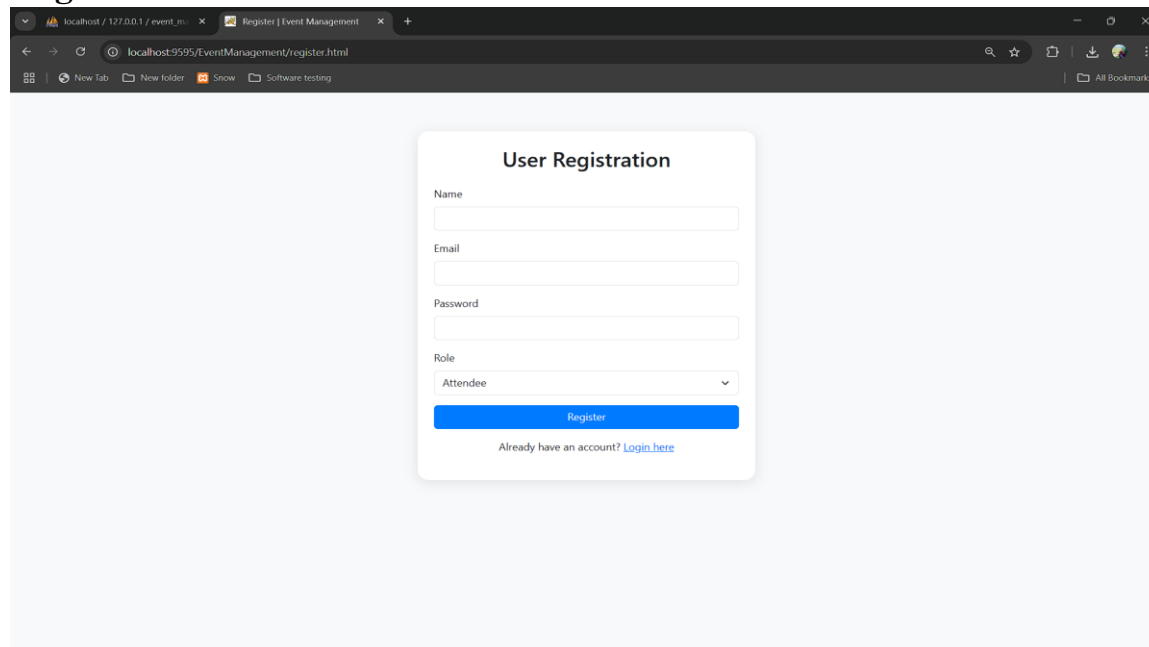


7. RESULTS

index.jsp



Register.html





Login.jsp

Login

Email

Password

[Login](#)

New user? [Register here](#)

ADMIN Login

Email: admin@example.com

Password: admin123

dashboardAdmin.jsp

Admin Dashboard - Events

Pending Events					
Title	Description	Date	Location	Organizer ID	Action

Approved Events				
Title	Description	Date	Location	Organizer ID
New year party	Party all night	2025-04-11 23:22:00.0	Ludhiana	2
CU fest	Official CU fest	2025-04-21 20:42:00.0	Kharar	4
party	party	2025-04-11 21:13:00.0	Punjab	4

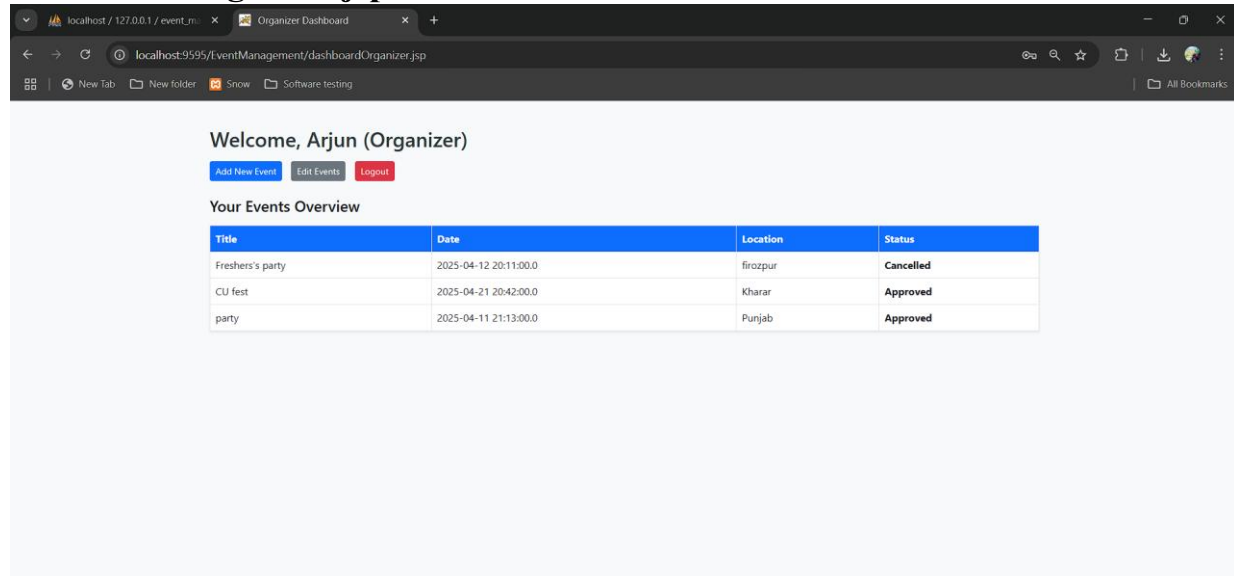
Rejected Events				
Title	Description	Date	Location	Organizer ID

Cancelled Events				
Title	Description	Date	Location	Organizer ID
Freshers's party	party for freshers	2025-04-12 20:11:00.0	firozpur	4
farewell	byr byr	2025-04-18 21:59:00.0	chandigarh	2



Organiser:

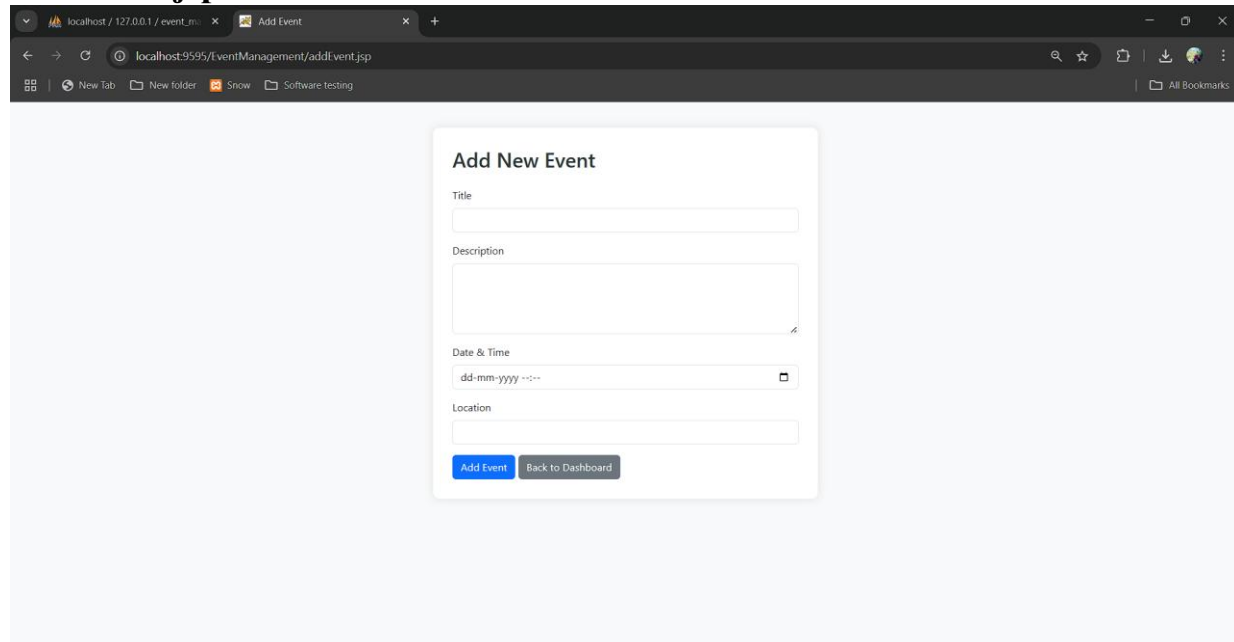
dashboardOrganizer.jsp



The screenshot shows a web browser window with the URL `localhost:9595/EventManager/dashboardOrganizer.jsp`. The page displays a welcome message for "Arjun (Organizer)" and three buttons: "Add New Event", "Edit Events", and "Logout". Below this is a section titled "Your Events Overview" containing a table with the following data:

Title	Date	Location	Status
Freshers's party	2025-04-12 20:11:00.0	firozpur	Cancelled
CU fest	2025-04-21 20:42:00.0	Kharar	Approved
party	2025-04-11 21:13:00.0	Punjab	Approved

addEvent.jsp



The screenshot shows a web browser window with the URL `localhost:9595/EventManager/addEvent.jsp`. The page displays a form titled "Add New Event" with the following fields:

- Title:
- Description:
- Date & Time:
- Location:

At the bottom of the form are two buttons: "Add Event" and "Back to Dashboard".



editEvent.jsp

localhost / 127.0.0.1 / event_m... Manage Your Events

localhost:9595/EventManager/editEvent.jsp

Your Events

[Back to Dashboard](#)

Title

Freshers's party

Location

firozpur

Date

12-04-2025 20:11

Description

party for freshers

Status: Cancelled

Title

CU fest

Location

Kharar

Date

21-04-2025 20:42

Description

Official CU fest

Update Event

Cancel Event

DATABASE TABLES:













users

<div><div>← T →</div><div></div></div>					id	name	email	password	role		
<input type="checkbox"/>		Edit		Copy		Delete	1	Prabhjot singh	lprabh096@gmail.com	12345678	attendee
<input type="checkbox"/>		Edit		Copy		Delete	2	Mohit	mohit@gmail.com	123456	organizer
<input type="checkbox"/>		Edit		Copy		Delete	4	Arjun	arjun@gmail.com	arjun	organizer
<input type="checkbox"/>		Edit		Copy		Delete	5	Admin User	admin@example.com	admin123	admin

events

← T →					id	title	description	date	location	organizer_id	status		
<input type="checkbox"/>		Edit		Copy		Delete	1	Freshers's party	party for freshers	2025-04-12 20:11:00	firozpur	4	cancelled
<input type="checkbox"/>		Edit		Copy		Delete	3	farewell	byr byr	2025-04-18 21:59:00	chandiagr	2	cancelled
<input type="checkbox"/>		Edit		Copy		Delete	4	New year party	Party all night	2025-04-11 23:22:00	Ludhiana	2	approved
<input type="checkbox"/>		Edit		Copy		Delete	5	CU fest	Official CU fest	2025-04-21 20:42:00	Kharar	4	approved
<input type="checkbox"/>		Edit		Copy		Delete	6	party	party	2025-04-11 21:13:00	Punjab	4	approved

registration

←T→				id	user_id	event_id	status
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	1	1	registered
<input type="checkbox"/>	 Edit	 Copy	 Delete	3	1	4	registered
<input type="checkbox"/>	 Edit	 Copy	 Delete	4	1	5	registered
<input type="checkbox"/>	 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.