# Event Ticketing System

## Project Overview

Welcome to the \*\*Event Ticketing System\*\*, a streamlined platform for organizing and managing events efficiently. This system is designed to cater to both \*\*users\*\* looking to book events and \*\*administrators\*\* managing event details, registrations, and user engagement.

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## Key Features

- \*\*User Authentication\*\* – Secure login & signup process

- \*\*Event Browsing\*\* – Search and explore various events

- \*\*Ticket Booking\*\* – Seamless reservation system

- \*\*Admin Dashboard\*\* – Manage users, bookings, and events

- \*\*Optimized Performance\*\* – Fast and scalable infrastructure

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## Tech Stack

--MERN STACK--

- \*\*Frontend:\*\* React.js, HTML, CSS

- \*\*Backend:\*\* Node.js, Express.js, MongoDB

- \*\*Authentication:\*\* JSON Web Tokens (JWT)

- \*\*API Testing:\*\* Postman

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## Challenges & Future Enhancements

### \*\*Challenges Faced\*\*

- Faced React and MUI version mismatches and had to troubleshoot dependency conflicts.

- Managing role-based routes for admin and user was initially complex.

- Handling form validations and file uploads (e.g., event images) needed additional logic.

-Firebase CLI deployment errors led to delays; the fallback was to run locally.

-Setting up dummy payment and booking flow to simulate a realistic experience took time to refine.

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## 📊 Project Badges

[![Contributors](https://img.shields.io/github/contributors/anandsriramchaitanyadasam/event\_ticketing\_system)](https://github.com/anandsriramchaitanyadasam/event\_ticketing\_system/graphs/contributors)

[![Issues](https://img.shields.io/github/issues/anandsriramchaitanyadasam/event\_ticketing\_system)](https://github.com/anandsriramchaitanyadasam/event\_ticketing\_system/issues)

[![Forks](https://img.shields.io/github/forks/anandsriramchaitanyadasam/event\_ticketing\_system)](https://github.com/anandsriramchaitanyadasam/event\_ticketing\_system/network)

[![Stars](https://img.shields.io/github/stars/anandsriramchaitanyadasam/event\_ticketing\_system)](https://github.com/anandsriramchaitanyadasam/event\_ticketing\_system/stargazers)

\*Explore more badges at [shields.io](https://shields.io/)\* ---

## Getting Started

### Setting Up the Frontend

1. Open \*\*VS Code\*\* and navigate to the project folder.

2. Install dependencies:

```sh

npm install

```

3. Start the development server:

```sh

npm start

```

4. The application will launch in \*\*Google Chrome\*\* automatically.

### Setting Up the Admin Panel

1. Open the \*\*VS Code terminal\*\*.

2. Run:

```sh

npm install

```

3. Start the admin dashboard:

```sh

npm start

```

4. Access the admin interface in your browser.

### Running the Backend

1. Install \*\*Node.js\*\* from [here](https://nodejs.org/en/download).

2. Navigate to the backend folder.

3. Install dependencies:

```sh

npm install

```

4. Start the server:

```sh

npm start

```

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## How to Use the Application

### \*\*For Users:\*\*

1. \*\*Sign up/Login\*\* using email and password.

2. \*\*Browse Events\*\* – Search for upcoming events.

3. \*\*Book Tickets\*\* – Secure your spot and get a confirmation.

4. \*\*Manage Bookings\*\* – View and manage your reservations.

### \*\*For Admins:\*\*

1. \*\*Login as Admin.\*\*

2. \*\*Manage Events\*\* – Add, update, or remove events.

3. \*\*User Management\*\* – Track and handle user activities.

4. \*\*Handle Bookings\*\* – Approve or modify event reservations.

- ### 🔐 \*\*Test Login Credentials\*\*

\*\*👤 User Login\*\*

📧 Email: `danesh123@gmail.com`

🔑 Password: `Danesh@2329`

\*\*🛍️ Vendor Login\*\*

📧 Email: `sriramdasam2023@gmail.com`

🔑 Password: `Sriram@5477`

\*\*🛠️ Admin Login\*\*

📧 Email: `admin@gmail.com`

🔑 Password: `123456`

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## How to Contribute

We welcome contributions! Follow these steps:

1. \*\*Fork the Repository\*\*

2. \*\*Create a Feature Branch\*\*

```sh

git checkout -b feature-name

```

3. \*\*Commit Changes\*\*

```sh

git commit -m 'Add new feature'

```

4. \*\*Push Branch\*\*

```sh

git push origin feature-name

```

5. \*\*Submit a Pull Request\*\*

\*\*Contribution Guidelines:\*\* Refer to the [Contributor Covenant](https://www.contributor-covenant.org/).

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## Running Tests

### \*\*How to Test the System:\*\*

\*\*Login & Authentication Checks\*\* – Verify correct logins & incorrect logins.

\*\*Event Booking Workflow\*\* – Reserve a ticket and verify it appears in “My Bookings.”

\*\*Admin Controls\*\* – Ensure admin users can create, update, and delete events.

\*\*Security Tests\*\* – Check for unauthorized access attempts.

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## License

This project is licensed under the \*\*MIT License\*\*. See the `LICENSE` file for full details.

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## Contact Us

For any queries, reach out via:

- \*\* Email:\*\* [sriramdasam1111@gmail.com](mailto:sriramdasam1111@gmail.com)

- \*\* Report Issues:\*\* [GitHub Issues]

( https://github.com/anandsriramchaitanyadasam/event\_ticketing\_system/issues)