Wednesday, 5 February 2025

Event Management Platform

Overview

• MERN Stack(MongoDB, Express, React, Node.js) is used here.

• **Goal :** Build a platform that allow users to:

1. **Sign Up/Log In**(with authentication).

2. **Create, Read, Update, and delete events.**

3. **Browse events**(by date or by category).

4. **RSVP / purchase tickets to events**(if required).

5. **Manage User Profiles**(personal data, list of created events).

• **High - Level Features**

1. **User Authentication**(JWT or sessions).

2. **Event Listening**(publicly available).

3. **Event CRUD**(only by an event owner).

4. **RSVP System**(users can RSVP or purchase tickets).

5. **Dashboard for users**(showing their info and events).

6. **Responsive UI**(for mobile & desktop).

Technology Stack

1. **Front - End :** React App

2. **Back - End :** Node.js + Express

3. **Database :** MongoDB(hosted on MongoDB instance)

4. **Authentication :** JSON Web Tokens(JWT)

5. **Deployment :** Backend on Heroku, Frontend on Vercel, Database on MongoDB

```
event-management-platform/
├── backend/
│   ├── config/
│   │   └── db.js
│   ├── controllers/
│   │   ├── userController.js
│   │   └── eventController.js
│   ├── middleware/
│   │   └── authMiddleware.js
│   ├── models/
│   │   ├── User.js
│   │   └── Event.js
│   ├── routes/
│   │   ├── userRoutes.js
│   │   └── eventRoutes.js
│   ├── .env
│   └── server.js
└── frontend/
    ├── public/
    ├── src/
    │   ├── components/
    │   ├── pages/
    │   ├── services/
    │   ├── App.js
    │   ├── index.js
    │   └── ...
    ├── package.json
    └── .env
```

```
frontend/
├── public/
├── src/
│   ├── components/
│   │   ├── Navbar.js
│   │   └── EventCard.js
│   ├── pages/
│   │   ├── HomePage.js
│   │   ├── LoginPage.js
│   │   ├── RegisterPage.js
│   │   ├── DashboardPage.js
│   │   └── EventPage.js
│   ├── services/
│   │   ├── api.js
│   ├── App.js
│   └── index.js
├── package.json
└── .env
```

```
/project-root
├── backend
│   ├── .env
│   ├── package.json
│   ├── server.js
│   ├── config
│   │   └── db.js
│   ├── models
│   │   ├── User.js
│   │   └── Event.js
│   ├── middleware
│   │   └── auth.js
│   └── routes
│       ├── auth.js
│       └── events.js
└── frontend
    ├── .env
    ├── package.json
    ├── public
    │   └── index.html
    └── src
        ├── index.js
        ├── App.js
        ├── components
        │   ├── Navbar.js
        │   └── EventCard.js
        └── pages
            ├── Login.js
            ├── Register.js
            ├── Dashboard.js
            ├── CreateEvent.js
            └── EventDetail.js
```