**NCW Event Organizer - Full Development Guide**

**1. Project Setup**

**Tech Stack:**

* **Frontend:** HTML, CSS, JavaScript (React.js for dynamic UI)
* **Backend:** Node.js, Express.js
* **Database:** Firebase / MongoDB Atlas
* **Hosting:** Netlify (Frontend), Render (Backend)
* **Version Control:** GitHub

**Folder Structure:**

NCW-Event-Organizer/

│-- frontend/

│ ├── public/

│ │ ├── index.html

│ │ ├── images/

│ ├── src/

│ │ ├── components/

│ │ │ ├── Navbar.js

│ │ │ ├── Footer.js

│ │ │ ├── EventCard.js

│ │ ├── pages/

│ │ │ ├── Home.js

│ │ │ ├── Login.js

│ │ │ ├── Signup.js

│ │ │ ├── Events.js

│ │ │ ├── EventDetails.js

│ │ │ ├── Register.js

│ │ ├── App.js

│ │ ├── index.js

│ │ ├── styles/

│ ├── package.json

│-- backend/

│ ├── server.js

│ ├── routes/

│ │ ├── authRoutes.js

│ │ ├── eventRoutes.js

│ ├── models/

│ │ ├── User.js

│ │ ├── Event.js

│ ├── controllers/

│ ├── config/

│ ├── package.json

│-- README.md

**2. UI/UX Design Guide**

**Color Palette:**

* **Primary Color:** #4A90E2 (Blue)
* **Secondary Color:** #FF6B6B (Red)
* **Background Color:** #F5F5F5 (Light Grey)
* **Text Color:** #333333 (Dark Grey)

**Typography:**

* Headings: **Poppins (Bold, 24px)**
* Body: **Roboto (Regular, 16px)**

**Icons: (Use FontAwesome or Material Icons)**

* Home: fa-home
* Events: fa-calendar-alt
* Login: fa-sign-in-alt
* Register: fa-user-plus

**3. Wireframe Layout**

**Navbar (Top Right Corner):**

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| NCW Event Organizer Home Events |

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**Home Page:**

* Welcome text + **Event Calendar**
* Recent Events Section
* **Navigation Links** (Home, Events, Contact)

**Event Details Page:**

* Event **Title, Date, Venue, Description**
* **Event Poster & Images**
* **Registration Button** (Leads to Register Page)

**Registration Page:**

* Form Fields:
  + Name, Email, Department, College (if external student)
  + Event Selection
  + Individual/Team Participation
* **Submit Button**

**4. Development Steps**

**Step 1: Setup Frontend (React.js)**

1. Create React App: npx create-react-app ncw-event-organizer
2. Install Dependencies: npm install react-router-dom axios firebase
3. Setup Components & Pages in src/
4. Design Navbar and Footer (Inside components/)

**Step 2: Backend Setup (Node.js + Express.js)**

1. Create Server: npm init -y
2. Install Dependencies: npm install express mongoose cors dotenv
3. Setup Routes (Authentication & Events API)
4. Connect MongoDB or Firebase

**Step 3: Integrate Backend with Frontend**

1. Fetch Events from Database
2. Implement Authentication
3. Handle Form Submission for Registration

**Step 4: Hosting & Deployment**

1. Host Frontend on **Netlify**
2. Deploy Backend on **Render**
3. Connect Firebase Database

**5. Project Completion Checklist**

✅ Responsive UI/UX   
✅ Secure Login & Signup   
✅ Event Calendar & Registration   
✅ Mobile-Friendly Design   
✅ Hosting & Deployment

This guide ensures a smooth development process. Let me know if you need any modifications! 🚀