**Project Goal:**

To create a powerful, user-friendly digital system that replaces outdated expo processes with efficient, real-time management tools—for **organizers**, **exhibitors**, and **attendees**.

**🔐 1. User Authentication (Login & Registration)**

All users (organizers, exhibitors, attendees) can:

* ✅ **Sign Up and Log In** securely.
* 👤 Choose their **role** during registration (admin/organizer, exhibitor, attendee).
* 🔒 **Reset or recover** forgotten passwords.
* 🛡️ Passwords are securely stored using **encryption**.

**🧑‍💼 2. Admin / Organizer Dashboard**

**A. Expo Management**

* ✏️ Create, update, or delete **expo events**.
* 📍 Manage event details (title, date, location, description, theme).
* 🗺️ Allocate **booths on a floor plan** to exhibitors.

**B. Exhibitor Management**

* 📥 View exhibitor applications.
* ✅ **Approve or reject** registrations.
* 📌 Assign and manage booth details for each exhibitor.

**C. Schedule Management**

* 🕐 Create and manage **event schedules**, including:
  + Time slots, sessions, speakers, topics, and locations.
* 🔁 Make changes to schedules in real-time.

**D. Analytics & Reporting**

* 📊 View reports and dashboards showing:
  + Attendee engagement.
  + Booth visit statistics.
  + Session popularity.
* 📈 Use **real-time analytics** to monitor expo performance.

**🏢 3. Exhibitor Portal**

**A. Registration & Profile Management**

* 📝 Register for expos with company details and documents.
* 🖼️ Update profile (logo, description, contact info).

**B. Booth Management**

* 🗺️ See available booth locations on a floor plan.
* 📌 Select and **reserve preferred booth** space.
* 🛍️ Add details about products, services, and staff attending.

**C. Communication Tools**

* 📩 Contact organizers for help or info.
* 🤝 Connect with other exhibitors nearby for partnerships via **messaging or contact exchange**.

**🧑‍🤝‍🧑 4. Attendee Interface**

**A. Event Info & Registration**

* 🧾 View event details: schedules, floor plans, exhibitor lists.
* ✍️ Register for the event or specific **sessions/workshops**.

**B. Search & Interaction**

* 🔍 Search exhibitors by category, product, or keyword.
* 📇 View exhibitor profiles and booth locations.
* 💬 Send messages or book meetings with exhibitors.

**C. Schedule Management**

* 🗓️ Browse all sessions, speakers, and workshops.
* ⭐ Bookmark or register for favorite sessions.
* 🔔 Get **reminders and alerts** for upcoming sessions.

**🌐 5. General System Features**

**A. Real-Time Updates**

* 🚀 Any changes to booth allocation, sessions, or event details are updated instantly for all users.

**B. Feedback & Support**

* 💬 Users can send suggestions or report issues through a built-in feedback system.