**Product Requirements Document (PRD)**

**1. Project Overview**

A responsive, modern, and user-friendly multi-vendor event booking platform allowing users to browse, filter, and book services (venues, catering, flowers, sound, farms, etc.) directly from the site. Vendors can register, manage services, and receive bookings and notifications.

**2. Stakeholders**

* **Client:** Mohammed Alnsour
* **Project Developer:** Ahmed Mohamed Elsaghir
* **End Users:**
  + Customers seeking event services
  + Vendors offering services
  + Admins managing the platform

**3. Core Features**

**A. Frontend**

* **Homepage:**
  + Clean and elegant landing with featured services
  + Search bar with filters (location, category, date, price)
* **Service Categories:**
  + Chairs, Halls, Flowers, Decorations, Audio, Hospitality, Farms, etc.
* **Service Detail Page:**
  + Images, price, description, vendor info, availability calendar, booking button
* **Vendor & Customer Authentication:**
  + Separate registration/login forms with role-specific dashboards
* **Smart Filtering:**
  + Based on region, category, date, and budget
* **Multilingual Support:**
  + Arabic (RTL) & English toggle
* **WhatsApp Integration:**
  + Quick contact option for vendors
* **Responsive Design:**
  + Tailored to mobile, tablet, and desktop
* **Ratings & Reviews**

**B. Backend (Admin & API)**

* **Vendor Dashboard:**
  + Add/edit/delete services
  + View bookings
  + Enable/disable availability
* **Customer Dashboard:**
  + View/manage bookings
  + Notifications (email + WhatsApp if feasible)
* **Admin Panel:**
  + User management
  + Vendor approval
  + Service moderation
* **Booking System:**
  + Availability calendar
  + Request booking or instant booking
* **Online Payment Support:**
  + Stripe, PayPal (supports deposit/full)
* **Notifications:**
  + Vendor alerts via email/WhatsApp (initially as a placeholder)

**4. Technical Stack**

* **Frontend:** Angular 16+
* **Backend:** Node.js + Express.js
* **Database:** MongoDB (MongoDB Atlas for cloud)
* **Authentication:** JWT
* **Hosting:**
  + Free: Vercel (frontend), Render (backend), MongoDB Atlas
  + Paid: Render Pro + Cloudinary/AWS
* **Deployment:** GitHub-managed, responsive hosting

**5. Non-Functional Requirements**

* **Performance:** Fast load times (SPA design), optimized queries
* **Scalability:** Structure built for potential mobile app conversion
* **Code Quality:** Modular, clean, well-documented codebase
* **Security:** Secure APIs, input validation, authentication/authorization

**🛠 Roadmap with Timeline (Approx. 15–25 Days)**

**🟠 Phase 1: Planning & Design (3–4 Days)**

* Finalize sitemap and key UI flows
* Set up Angular project + folder structure
* Design homepage and search results (in brand colors)
* Approve UI/UX sketch with client

**🔵 Phase 2: Frontend Development (5–7 Days)**

* Build core pages: Home, Categories, Service Details, Login/Register
* Responsive layout (mobile/tablet/desktop)
* Multilingual toggle (RTL/LTR)
* Smart filtering UI
* Initial WhatsApp action buttons

**🟢 Phase 3: Backend/API Setup (5–7 Days)**

* Setup Express.js backend and MongoDB schema
* Implement Auth (JWT): Vendors & Customers
* Vendor dashboard APIs (CRUD services)
* Booking system logic + availability calendar
* Admin dashboard (basic moderation tools)

**🟣 Phase 4: Integration & Testing (3–5 Days)**

* Connect frontend with backend APIs
* Complete booking + notification workflows
* Integrate payments (Stripe/PayPal - sandbox)
* Add image hosting (Cloudinary)
* QA testing: desktop, mobile, and RTL

**🟡 Phase 5: Launch & Handover (1–2 Days)**

* Final deployment (Vercel + Render / Paid host)
* Deliver full source code on GitHub
* Setup environment + database access
* Documentation + how-to-use guide
* Free support for 7–14 days post-launch