Project Summary & Setup Guide

📝 What Was Accomplished Today

1. Frontend Enhancements

- **Admin and Agent Dashboards:**
  - Redesigned with a permanent top navigation bar and sidebar navigation (matching the user dashboard).
  - Modular sections: Overview, Management, Bookings, Activity, Inquiries, etc.
  - Interactive features: Add and delete packages (agent), management tables (admin), all with mock/demo data for UI.
- **Role-Based Routing:**
  - `/dashboard` (USER), `/admin` (ADMIN), `/agent` (TRAVEL_AGENT) are protected and only accessible by the correct role.
  - Used a `ProtectedRoute` component for secure navigation.
- **Authentication & Registration:**
  - Registration and login forms are fully connected to the backend.
  - JWT-based authentication, with user role-based redirection after login.
- **Temporary Demo Mode:**
  - Allowed frontend-only demo by removing auth checks, then restored full backend integration and protection.

2. Backend Integration

- **User Service:**
  - Endpoints for registration, login, and profile fetch are fully integrated.
  - `/me` endpoint for fetching the current user profile using JWT.
- **Ready for Microservices:**
  - Project structure and API calls are designed to work with an API Gateway, Eureka, and Config Server (to be set up on your backend system).

🚦 Step-by-Step: How to Run the Full Project on Another System

A. Backend Setup (Spring Boot + Microservices)

1. **Start your database** (e.g., MySQL, PostgreSQL) and ensure it's accessible.
2. **Start your Config Server** (if using Spring Cloud Config).
3. **Start your Eureka Server** (for service discovery).
4. **Start your API Gateway** (for routing frontend requests to microservices).
5. **Start all microservices** (User Service, Package Service, Booking Service, etc.).
   - Make sure each service is registered with Eureka and has correct DB/config settings.

B. Frontend Setup (React + Vite)

1. **Copy the frontend folder** (`aventra-visual-mark-main`) to your new system.
2. **Install dependencies:**

   ```
   cd aventra-visual-mark-main
   npm install
   ```

3. **Set environment variables:**
   - Create a `.env` file in the root of your frontend project.
   - Set the backend URL (pointing to your API Gateway, not directly to a microservice):

     ```
     VITE_USER_API_URL=http://localhost:8080/user-api/users
     ```

     (Adjust the URL/port as needed for your gateway setup.)

4. **Start the frontend:**

   ```
   npm run dev
   ```

   - Open your browser to the provided local address (e.g., `http://localhost:5173`).

C. Usage

- **Register a new user** (will be assigned the USER role).
- **Login as admin or agent** (create these users in your database manually if needed).
- **Access dashboards:**
  - `/dashboard` for users
  - `/admin` for admins
  - `/agent` for travel agents

D. Troubleshooting

- If you see CORS errors, enable CORS in your backend for your frontend's origin.
- If registration/login fails, check backend logs and network requests for errors.
- Make sure all backend services and the database are running.

📄 PDF Export Instructions

To create a PDF:

1. Open this file in any Markdown viewer or editor (VSCode, Typora, etc.).
2. Export or print as PDF (most editors have an "Export as PDF" or "Print to PDF" option).
3. Or, use an online Markdown-to-PDF tool.

Good luck with your project and demo! If you need more help, just ask! 🚀