**LocaBusin Prototype Plan**

**Overview**

LocaBusin is a MERN stack platform for digital connection between local businesses and customers, featuring browsing, booking, ordering, and business management .

**Core Modules & User Roles**

| **Module** | **Main Features** |
| --- | --- |
| User | Register/Login, Browse businesses, View details, Book (appointment/table/order), Manage bookings |
| Admin | Secure login (Session-based), Manage businesses, categories, services, View/manage bookings, Dashboard stats |
| Business | (Admin-driven) Add/Edit/Delete business, Manage details |
| Product/Service | Add/manage products/services, Set price/desc/images |
| Booking | Book appointments/tables/orders, Track all bookings |

**User Flows**

**User Registration and Login**

* Access: React-powered registration and login page
* Authentication: JWT tokens stored client-side

**Discover & Browse Businesses**

* Home screen: Search bar, category filters, featured/local businesses
* List/grid view: Business cards (name, category, rating, short description)

**View Business Details**

* Business page: Overview, photos, products/services, ratings
* Tabs for appointments, tables, or direct orders

**Booking/Ordering**

* Select service or product
* Choose slot/table/quantity
* Confirmation modal; Booking/Order summary screen

**User Booking Management**

* Dashboard: List of active & past bookings/orders, calendar view, "Cancel" or "Reschedule" options

**Admin Dashboard**

* Login page (session-based, EJS/Express)
* Overview with stats (users, bookings, businesses)
* Manage businesses/categories/services (CRUD)
* View/manage all user bookings

**Business Management (Admin Panel)**

* Add/Edit/Delete business entries: Form with name, category, contact, location, images
* Manage business info from dashboard

**Product/Service Management**

* Add/edit: Form input for price, description, images
* Assign to a business

**Booking Management (Centralized)**

* Unified table of all bookings: Filters by status/type/business/user

**Future Enhancements Framework**

* Payment gateway: Stripe/PayPal integration during booking/ordering
* Notifications: API integration for Email/SMS/WhatsApp
* Analytics: Graphs for bookings, sales, business performance
* Mobile App: React Native/Flutter (consume REST APIs)
* Reviews/ratings: User reviews, per business/product/service
* Multi-language: Locale files, language switcher on frontend

**Tech Stack Architecture**

| **Layer** | **Technologies** |
| --- | --- |
| Frontend | HTML, CSS, JavaScript, Bootstrap  OR  React.js, Tailwind CSS, Axios |
| Backend | Express.js, Node.js |
| Database | MongoDB/MySQL |
| Auth | JWT (API), Session (Admin) |
| Admin Panel | EJS/Express.js |
| Deployment | Netlify/GitHub Pages |
| Version Ctrl | Git, GitHub |

**Wireframe Sketch List**

* Landing/Home
* Register/Login
* Business List (Browse/Search)
* Business Detail Page
* Booking/Order Flow Modal
* User Booking Dashboard
* Admin Login
* Admin Dashboard (CRUD businesses/categories/services/bookings)
* Business Edit Page
* Product/Service Management Form

**Project Collaborators:**

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* **File Structure (Prototype)**

LocaBusin/

backend/

├── models/

├── User.js

├── Business.js

├── Booking.js

├── Product.js

├── routes/

│ ├── auth.js

├── businesses.js

├── bookings.js

├── products.js

├── controllers/

├── authController.js

├── businessController.js

├── bookingController.js

├── productController.js

├── config/

└── db.js

├── middleware/

└── authMiddleware.js

├── server.js

├── package.json

frontend/

| ├── src/

|| ├── components/

||| ├── BusinessList.js

||| ├── BookingForm.js

||| ├── AdminDashboard.js

|| ├── pages/

||| ├── Home.js

||| ├── Login.js

|||├── Register.js

|||├── BusinessDetail.js

|||├── AdminPanel.js

||├── App.js.

||├── index.js

| ├── package.json

README.md