## StayFinder - Full Stack Web App (Airbnb Clone)

# Project Summary

StayFinder is a full-stack web application inspired by Airbnb. It allows users to browse property listings, view listing details, register/login, and book stays. Users can also view their recently visited listings and booking history.

# **Objectives**

- Build a functional prototype with:
- Frontend: Property listing, search, listing details, login/register pages
- · Backend: REST API for user auth, listings, bookings
- Database: MongoDB to store users, listings, bookings

## **Deliverables**

## **⊗** Frontend (React)

- Homepage: Grid of listing cards showing image, location, price
- Listing Detail Page: Title, description, image, location, calendar-style date pickers
- Login/Register: Form validation, error handling
- · Dashboard:
- Recently viewed listings (from localStorage)
- · Booking history per user

### **⊗** Backend (Node.js + Express)

- Auth Routes:
- POST /api/auth/register User registration
- POST /api/auth/login User login
- · Listings Routes:
- GET /api/listings All listings
- GET /api/listings/:id Single listing by ID
- · Bookings Routes:
- POST /api/bookings Book a property
- GET /api/bookings/user/:userId User's bookings
- DELETE /api/bookings/:bookingId Delete a booking

### **⊗** Database (MongoDB)

- · Models:
- User : name, email, password

- Listing: title, location, price, image, description
- Booking: userId, listingId, checkInDate, checkOutDate
- Seed/Test Data: Sample listings manually inserted into the database.

## Bonus Features (Implemented)

- Search Filters: Users can filter by location and price range
- **Recently Viewed Listings**: Stored using localStorage

# **UI/UX Inspiration**

- · Clean, modern design similar to Airbnb
- Layout and styling inspired by UI patterns from Dribbble and NomadX

#### **Submission Information**

## **⊗**Tech Stack Chosen & Why

- Frontend: React for component-based architecture and fast rendering
- Backend: Node.js + Express lightweight, fast, and easy to integrate with MongoDB
- Database: MongoDB Community Edition schema-flexible and developer-friendly for prototyping

## Full-Stack Capability

Yes, the applicant has built both frontend and backend end-to-end and is capable of full-stack development.

### **⊗**2 Unique Features to Improve Airbnb

- 1. **Listing View History** Personalized dashboard showing recently viewed listings.
- 2. **Booking History with Cancel Option** Users can view and delete past bookings.

### **⊗**App Security & Scaling Strategy

- · Use JWT tokens for secure authentication
- Store passwords securely using hashing (bcrypt)
- CORS configuration to prevent cross-origin issues
- Scale using MongoDB Atlas or Docker containers for production deployment
- Future option: Load balancing + CDN for static assets

# **Final Project Status**

All **required objectives and deliverables have been implemented** successfully. The app is fully functional with user login, listing browsing, bookings, and user dashboard features.

# Next Steps (Optional)

- Add Stripe or Razorpay for real-time payments
- Implement a host dashboard to manage properties
- Add reviews/ratings system for listings

## Project Structure

```
project/
├── stayfinder-client/ # React Frontend
├── stayfinder-server/ # Node.js Backend
│ ├── models/
│ ├── routes/
│ ├── app.js
│ └── .env
└── README.md
```

# in How to Run (Local Setup)

- 1. Clone the repo
- 2. Run backend:

```
cd stayfinder-server
npm install
node app.js
```

3. Run frontend:

```
cd stayfinder-client
npm install
npm start
```

4. Visit: http://localhost:3000