

House Rental Platform - Project Planning

Project Overview

A responsive and dynamic house rental website that allows property owners to list properties and users to search, view, and book rentals. The platform simplifies rental processes for users and property managers.

Project Objectives

- Provide seamless property browsing and booking.
- Allow property owners to list/manage rentals.
- Enable secure user authentication.
- Ensure full responsiveness (mobile, tablet, desktop).
- Integrate with payment gateways (future phase).

Scope (Key Features)

Feature	Description
User Authentication	Register, log in, manage profiles
Property Listings	Create, edit, and delete listings
Search & Filters	Location, price, property type
Favorites	Save favorite properties
Booking System	Request/confirm bookings
Reviews & Ratings	User reviews in Phase 2
Admin Panel	Manage users, listings, issues
Responsive Design	Optimized for all devices

Tech Stack

Layer	Technology
Frontend	React.js, Next.js, TailwindCSS
Backend	Node.js, Express.js
Database	MongoDB Atlas
Authentication	JWT, OAuth (future phases)
Hosting	Vercel (frontend), AWS/Render (backend)
Other Tools	Cloudinary, Stripe (future payments)

Milestones & Timeline

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- Week 1-2: Requirements Gathering & UI/UX Design
- Week 3-4: Backend API Development
- Week 5-6: Frontend Development and Integration
- Week 7: Testing and Quality Assurance
- Week 8: Deployment and Go Live

Success Criteria

- Smooth user registration, login, and property browsing.
- Fast page load time (< 2 seconds).
- Mobile and desktop responsiveness.
- Secure data storage and authentication.
- User and admin functionalities fully operational.