

Proposal & Requirements Report

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Project Overview

Our team proposes to develop a web-based platform to book rental properties for short-term stays providing travelers with a convenient way to find accommodations based on their travel destinations. This platform aims to connect travelers with rental properties, including apartments, vacation homes, and other temporary housing options, that match all their lodging preferences. Our application will also feature detailed property listings with photos, descriptions, user reviews, and other information required to make booking decisions. The purpose of this application is to simplify the booking process for users by allowing them to specify their preferences and communicate with hosts about their needs.

Functional Requirements

1. User Registration and Authentication:
 - a. Allow users to register for accounts and authenticate securely.
 - b. Enable users to log in using their saved email/passwords.
2. Property Listings:
 - a. Provide property owners with the ability to list their rental properties on the platform.
 - b. Allow property owners to add specific details to their listings such as property type, location, price, amenities, and availability dates.
 - c. Support uploading photos and descriptions of their rental properties.
3. Search and Filtering:
 - a. Offer users a search functionality to find rental properties based on their travel destinations and dates.
 - b. Users can filter their search results by additional criteria such as price range, property type, amenities, etc.
4. Saving Results
 - a. Users can save certain properties from their search results to a “favorites list”.
 - b. This list of saved properties can be accessed and updated at any time.
5. Interactive Map View:

- a. Incorporate an interactive map view to display rental properties based on the traveler's chosen destination.
 - b. Enable users to visualize property locations and nearby points of interest on the map.
- 6. Property Details and Booking:
 - a. Application provides detailed information about each rental property, including photos, descriptions, amenities, pricing, and information about the owner.
 - b. Allow users to book rental properties directly through the platform, specifying their desired dates of stay, number of guests, and are able to contact the host upon booking.
- 7. Reviews and Ratings:
 - a. Enable users to leave reviews and ratings for rental properties they have stayed in.
 - b. Display ratings and reviews under each listing to help travelers make informed decisions when choosing accommodations.

Non-Functional Requirements

- 1. Performance:
 - a. The platform should provide acceptable response times for user interactions.
 - b. Database queries and server-side processes should be optimized for efficiency.
- 2. Usability:
 - a. The platform should have a simple and intuitive interface that is easy to navigate.
 - b. Accessibility considerations should be made to ensure usability for all users.
- 3. Security:
 - a. Basic security measures should be implemented to protect user accounts and personal information.
 - b. Sensitive data such as passwords should be encrypted.
- 4. Scalability
 - a. Design the platform to be scalable, accommodating potential growth in user traffic and property listings over time.
- 5. Reliability:
 - a. The platform should be reliable and free from major bugs or errors.
 - b. Basic backup procedures can be implemented to protect against data loss.