

Project Design Phase
Proposed Solution

Date	30 th March 2025
Team ID	SWTID1743953304
Project Name	House- Hunt: Finding Your Perfect Rental Home
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Finding reliable rental accommodations is a complex and often frustrating process for various users—ranging from students and professionals to families and startups. Existing platforms often fall short due to outdated listings, limited personalization, and a lack of verified information, leading to confusion and wasted time.
2.	Idea / Solution description	Our solution is a dynamic digital platform that streamlines the search for rental accommodations by aggregating verified property listings in one user-friendly interface. The platform employs smart filtering, interactive mapping, and personalized recommendation features to help users quickly locate housing options tailored to their specific needs—whether for long-term living or short-term stays. Real-time updates, transparent reviews, and comprehensive property details ensure that users have access to accurate information, reducing the uncertainty and frustration often associated with the rental process.
3.	Novelty / Uniqueness	What sets our solution apart is its commitment to both trust and innovation. We have implemented JWT token authorization, ensuring secure user authentication and robust data protection throughout the platform. Another unique feature is the versatile image upload capability—users can conveniently upload property images not only from their laptops but also directly from their smartphones through QR code scanning. This blend of real-time validation, tailored search capabilities, and multi-device support marks our solution as a refreshing and secure alternative to traditional property rental platforms.
4.	Social Impact / Customer Satisfaction	The platform is designed not only to simplify the rental process but also to create a positive social impact. By offering a transparent and reliable space for property seekers, we aim to reduce the stress and uncertainty of finding a home, fostering

		<p>greater peace of mind. Enhanced customer satisfaction is achieved through user-centric features such as detailed property insights, verified reviews, and efficient search tools. Ultimately, our solution contributes to building stronger, more informed communities by facilitating safer, more confident housing decisions, which in turn benefits both individuals and local neighborhoods.</p>
5.	Business Model (Revenue Model)	<p>Enhanced User Engagement via Multi-Platform Functionality: The ability to upload images both from laptops and mobile devices via QR code scanning enhances user engagement and content quality. This not only improves the overall experience but also drives higher conversion rates for advertisers and premium service offerings.</p> <p>Secure Authentication: Robust login, signup, and JWT token authorization—including QR-based phone login—ensure a trusted environment that enhances user retention.</p> <p>Property Discovery & Listings: Advanced search options (by keyword, address, type, pricing, etc.) and detailed property listings (with discounts and owner contacts) improve user experience. This creates opportunities for sponsored listings, premium advertisements, and listing fees.</p> <p>Facilitated Transactions: Seamless access to property owner contacts enables streamlined interactions, allowing us to collect small transactional or facilitation fees on successful deals.</p>
6.	Scalability of the Solution	<p>The design of our platform is built for scalability from the ground up. Utilizing modern, cloud-based infrastructure and modular microservices, the solution can seamlessly expand to accommodate growing user demand and new geographical markets. As the user base increases, the system can incorporate more robust data security measures, load-balancing strategies, and performance optimizations to ensure that the user experience remains smooth and reliable across all levels of scale.</p>