

Project Design Phase
Proposed Solution Template

Date	28 June 2025
Team ID	LTVIP2025TMID49487
Project Name	House Hunt: Finding Your Perfect Rental Home
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Finding rental homes is often stressful due to unverified listings, lack of transparency, broker dependency, and no unified digital solution for tenants and landlords.
2.	Idea / Solution description	House Hunt is a full-stack web and mobile platform that allows users to search, book, and manage rental properties in real-time. The app supports role-based access (tenant, landlord, admin), integrates AI chat/voice search, offers verified listings, and ensures smooth interaction through a modern user interface.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> - AI-powered chatbot and voice-based property search (Watson STT + Assistant) - Real-time room booking and availability tracking - Direct tenant-to-landlord interaction without brokers - Clean, mobile-first interface using React + Material UI
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> - Reduces housing stress for students, professionals, and families - Improves trust through verified listings - Saves money by removing broker commissions - Increases convenience and transparency in house renting
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> - Freemium model: Free access for tenants with optional premium filters/search boosters - Listing fee for landlords to promote properties - Ad placements from local service providers (packers, movers, utility services) - Subscription plans for property managers with dashboard analytics
6.	Scalability of the Solution	<ul style="list-style-type: none"> - Can scale to multiple cities/regions with geo-filtering - Cloud-native design enables easy deployment using Kubernetes/Cloud Foundry - Modular backend (Node.js + Express + MongoDB) allows integration with payment gateways, IoT for smart locks, and more - Future potential to evolve into a full real-estate management suite