**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** |
|  | 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. |
|  | 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. |
|  | Novelty / Uniqueness | - 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 |
|  | Social Impact / Customer Satisfaction | - 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 |
|  | Business Model (Revenue Model) | - 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 |
|  | Scalability of the Solution | - 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 |