

Project Design Phase

Proposed Solution

Date	28 June 2025
Team ID	LTVIP2025TMID51430
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	4 Marks

Proposed Solution :

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

SNO.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Difficulty in interpreting complex housing market data to identify price patterns, feature preferences, and regional trends for informed real estate decisions.
2.	Idea / Solution description	Interactive Tableau dashboards that visually correlate sale prices with property features, location data, and temporal trends through dynamic filters and geospatial mapping.
3.	Novelty / Uniqueness	AI-powered price prediction visuals layered over historical trends, with unique "feature impact" heatmaps showing how amenities affect values across neighborhoods.
4.	Social Impact / Customer Satisfaction	Empowers homebuyers with transparent pricing insights and helps sellers optimize listings, reducing market information asymmetry.
5.	Business Model (Revenue Model)	Freemium SaaS: Free basic dashboards + premium features (predictive analytics, custom report generation) via subscription.
6.	Scalability of the Solution	Cloud-hosted architecture allows handling millions of listings; modular design accommodates new data sources like IoT property sensors.