

Project Design Phase
Proposed Solution Template

Date	27 June 2025
Team ID	LTVIP2025TMID49194
Project Name	Visualizing housing Market trends:An analysis of sale prices and features using tableau
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	Real estate stakeholders struggle with analyzing large housing market datasets, leading to inefficient decision-making due to lack of clear, actionable insights. Traditional methods (e.g., spreadsheets) are time-consuming and fail to highlight trends effectively.
2.	Idea / Solution Description	Develop an interactive Tableau dashboard to visualize housing market trends, including: <ul style="list-style-type: none">- Sale price distributions over time/regions.- Correlations between property features (e.g., bedrooms, location) and prices.- Dynamic filters for customized analysis (e.g., by price range, property type).
3.	Novelty / Uniqueness	<ul style="list-style-type: none">- Interactive visualizations replace static reports, enabling real-time exploration.- Machine learning integration (future scope) to predict price trends.- User-friendly design tailored for non-technical users (e.g., realtors, buyers).
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">- Empowers buyers/investors with transparent market data.- Saves time for real estate agents by automating analysis.- Reduces risk of overpricing/underpricing properties.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none">- Freemium model: Free basic dashboard with paid advanced features (e.g., predictive analytics).- Subscription: Licensing for real estate agencies.- Data partnerships: Collaborate with property portals for enriched datasets.
6.	Scalability of the Solution	<ul style="list-style-type: none">- Adaptable to new regions by updating datasets.- Integrates with APIs (e.g., Zillow, government housing databases) for real-time data.- Modular design allows adding new features (e.g., affordability calculators).

