Project Design Phase
Proposed Solution Template

Date	27 June2025
Team ID	LTVIP2025TMID49022
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	**Problem Statement**	Real estate stakeholders (agents, investors, policymakers) lack actionable insights into housing market trends due to fragmented or complex data. Manual analysis is time-consuming, and static reports fail to highlight dynamic correlations (e.g., price vs. location, square footage).
2.	**Idea / Solution**	Develop an interactive Tableau dashboard to visualize: - Geographic distribution of sale prices (map view). - Price trends over time (line charts). - Correlations between price and features like bedrooms/sqft (scatter plots). Enable filters (year, region) for on-demand exploration.
3.	**Novelty / Uniqueness**	- **Dynamic Insights:** Combines multiple datasets (e.g., Zillow, census) into a single intuitive interface. - **AI Integration (Optional):** Use Tableau's "Explain Data" to auto-generate trends. - **Custom Metrics:** Calculated fields (e.g., price/sqft, ROI predictions).
4.	**Social Impact**	- Empowers homebuyers with transparent market data. - Helps policymakers identify affordable housing gaps. - Reduces reliance on anecdotal evidence for pricing decisions.
5.	**Business Model**	- **Freemium:** Free dashboard on Tableau Public with premium features (e.g., API real-time data) for enterprises.

		- **B2B:** License dashboards to real estate firms. - **Data Partnerships:** Monetize curated datasets (e.g., trend reports).
6.	**Scalability**	- **Data Scalability:** Supports CSV/API integrations for larger datasets. - **User Scalability:** Cloud deployment (Tableau Server) handles concurrent users. - **Feature Expansion:** Add predictive modeling (e.g., future price trends) via Python scripts.