Project Design Phase-I
Proposed Solution Template

Date	31 January 2026
Team ID	LTVIP2026TMIDS25024
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 proposed solution template.

S.No.	Parameter	Description
1	Problem Statement (Problem to be solved)	Housing datasets contain large amounts of raw numerical data such as sale prices, renovation details, and structural features. Analyzing such data directly from spreadsheets makes it difficult to identify trends, patterns, and meaningful insights. Users face challenges in understanding housing market behavior and presenting analysis results clearly without proper visualization tools.
2	Idea / Solution description	The proposed solution uses Tableau to transform raw housing data into interactive visualizations, dashboards, and stories. These visual dashboards help users explore housing trends, analyze the impact of renovation and structural features, and understand relationships between different variables. The dashboards are published to Tableau Public and integrated into a web application using Flask, allowing users to access and interact with the visualizations easily through a web browser.
3	Novelty / Uniqueness	The uniqueness of the solution lies in converting complex housing datasets into interactive and user-friendly dashboards that allow real-time exploration and analysis. The integration of Tableau Public with a Flask web application enhances accessibility and enables seamless web-based interaction. The system provides structured visualization and storytelling features, improving analytical understanding compared to traditional static analysis methods.
4	Social Impact / Customer Satisfaction	The solution improves the ability of students, analysts, and stakeholders to understand housing market trends and present insights effectively. It enhances learning, improves analytical skills, and supports better understanding of data visualization techniques. The interactive dashboards increase user satisfaction by providing clear, easy-to-understand insights and improving the overall user experience.
5	Business Model (Revenue Model)	The solution can be extended as a data visualization service for real estate companies, researchers, and analysts. Organizations can use such dashboards to analyze housing trends and make informed decisions. Revenue can be generated through dashboard development

		services, data analytics consulting, and customized visualization solutions for businesses.
6	Scalability of the Solution	The solution is highly scalable as additional datasets, new visualizations, and advanced analytics features can be integrated easily. The use of Tableau Public and web-based integration ensures that dashboards can be accessed by multiple users simultaneously. The system can also be extended to analyze different types of datasets across various domains.