

Project Design Phase
Solution Architecture

Date	28 June 2025
Team ID	LTVIP2025TMID48073
Project Name	visualizing housing market trends
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

Proposed Solution – House Price Analysis

1	Problem Statement (Problem to be solved)	Home buyers, sellers, and investors lack clear insights into how house features like flat area, age, renovation, and view affect sale prices.
2	Idea / Solution description	A Tableau-based dashboard that visually analyzes housing data to highlight sale trends, key KPIs, and feature-driven pricing behavior
3	Novelty / Uniqueness	Unlike static reports, our solution offers <i>interactive filtering</i> , data stories, and visual recommendations based on user-selected inputs
4	Social Impact / Customer Satisfaction	Buyers make smarter investments, sellers price homes more accurately, and developers understand renovation impact—resulting in increased satisfaction and trust
5	Business Model (Revenue Model)	Freemium model: core dashboard is free, with options for personalized reports, predictive insights, or consulting on pricing strategy as premium services

House Price Analysis

