Project Design Phase-I
Solution Architecture

Date	14 February 2026
Team ID	LTVIP2026TMIDS38402
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture defines how the Housing Market Analysis system addresses the problem of understanding housing price trends through data visualization. It outlines the integration of data sources, data preparation processes, visualization tools, and web deployment components. The architecture ensures that raw housing data is transformed into meaningful dashboards and interactive insights that support informed decision-making for analysts, investors, and buyers.

• Provide an efficient data-driven approach to analyze housing market trends.
• Design interactive dashboards using Tableau for clear visualization.
• Integrate dashboards into a Flask web application for easy access.3
• Ensure scalability, performance, and usability of the system.
• Deliver structured documentation and deployment strategy.

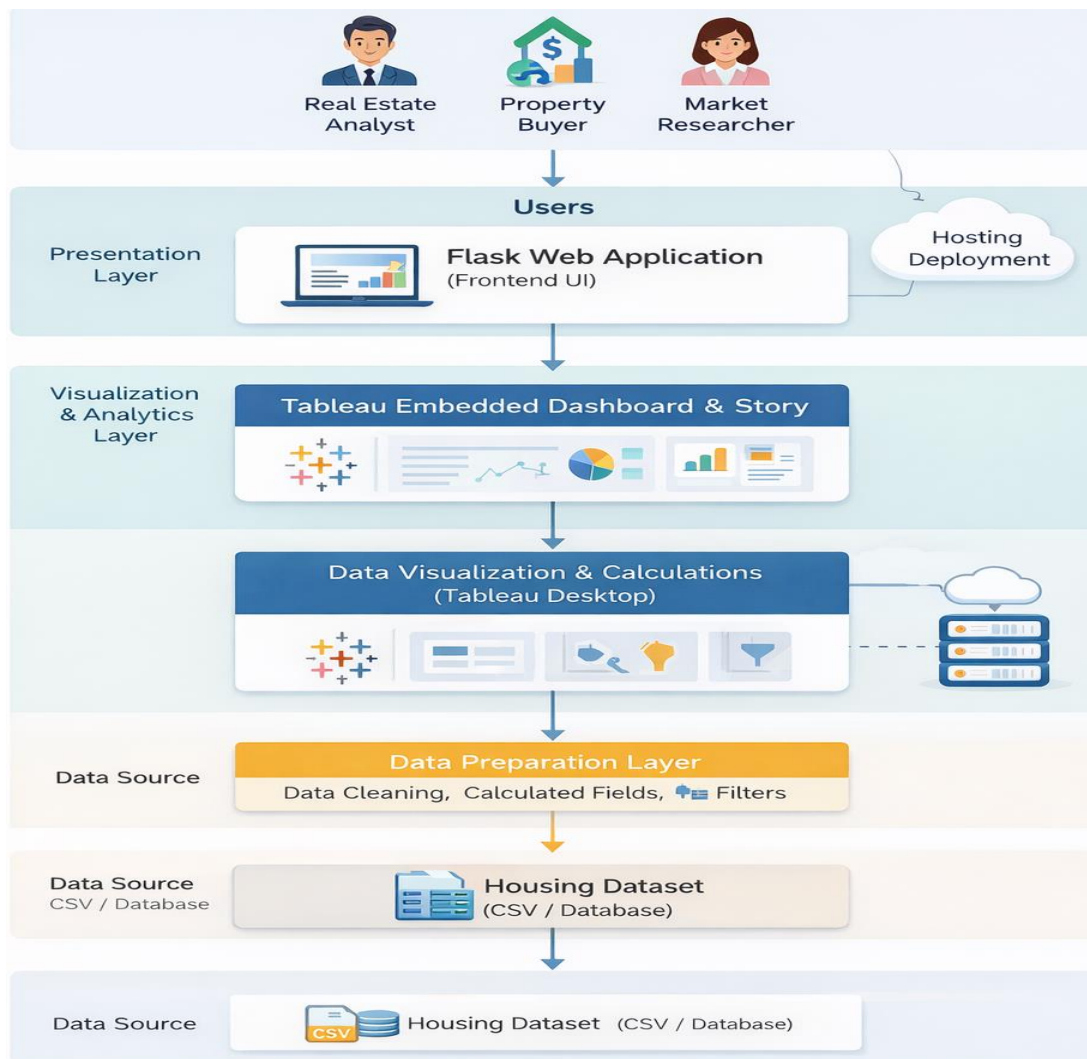### Solution Architecture Diagram:

Figure X: Solution Architecture and Data Flow of Housing Market Analysis System