

Project Design Phase-II Technology Stack (Architecture & Stack)

Date	27 June 2025
Team ID	LTVIP2025TMID49598
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table

Example: Visualizing Housing Market Trends: An Analysis of Sale Prices

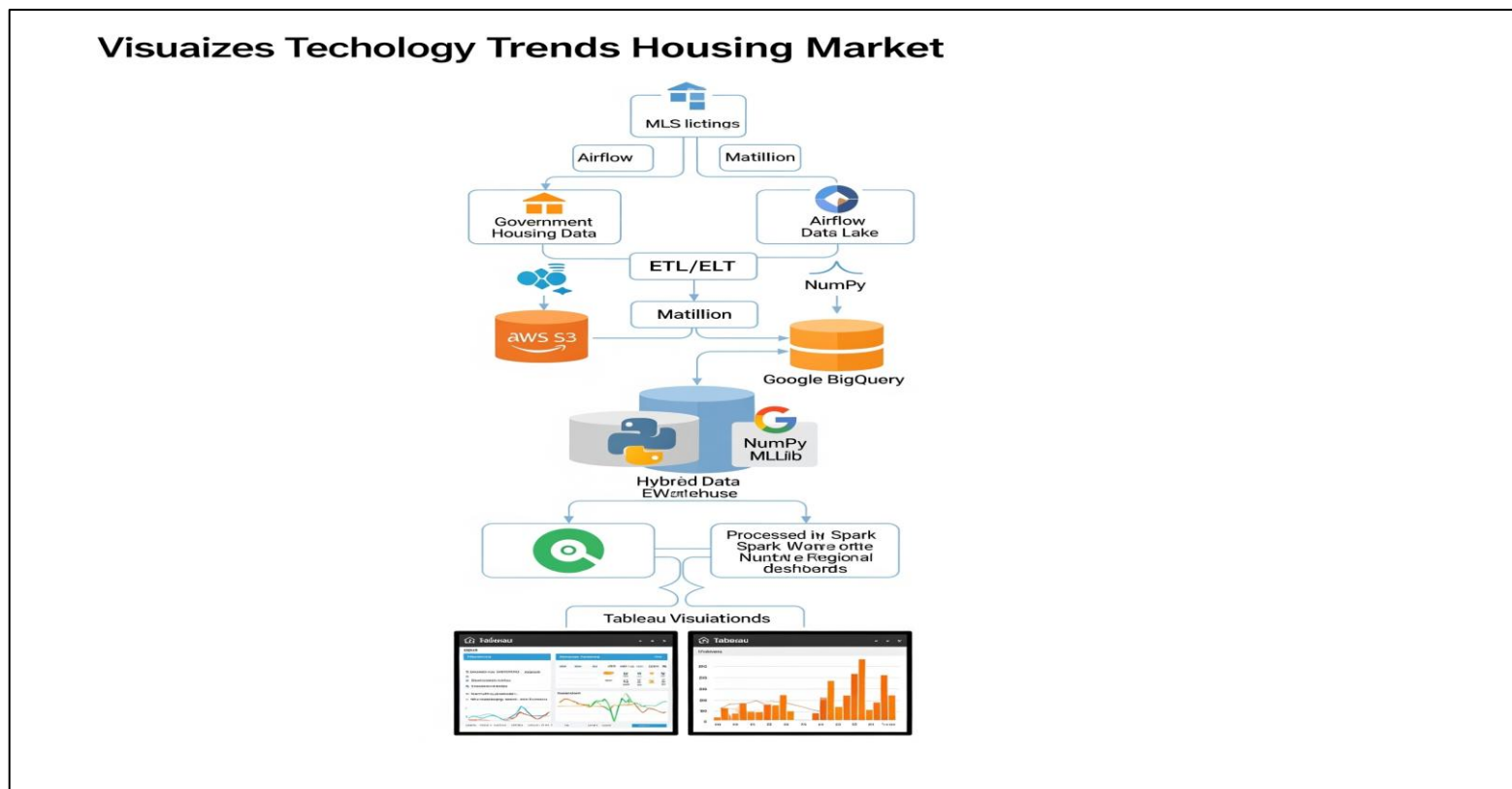


Table : Components & Technologies:

Component	Technology Used	Description
Data Source	Microsoft Excel / CSV / Google Sheets	Easily accessible and widely used formats for structured housing datasets.
Data Cleaning	Tableau Prep / Excel Formulas / Power Query	Quick transformation, field derivation, and cleaning within a visual interface.
Data Analysis & Viz	Tableau Desktop / Tableau Public	Drag-and-drop analytics with grouped bar charts, pie charts, histograms, etc.
Optional Backend	Python with Pandas (Jupyter Notebooks)	For deeper pre-processing or model-based analytics if needed in the future.
Hosting	Tableau Public (Free) or Tableau Server (Enterprise)	Shareable dashboards, secure access control, and collaboration support.
Export / Reporting	Built-in PDF/Image Export from Tableau	Simplifies reporting and snapshot sharing with stakeholders.

Conclusion:

This Requirement Analysis sets the foundation for developing a data visualisation solution using Tableau that empowers stakeholders to interpret housing trends with ease. The system ensures usability, flexibility, and actionable insight delivery by combining clean data practices with interactive visual analytics.