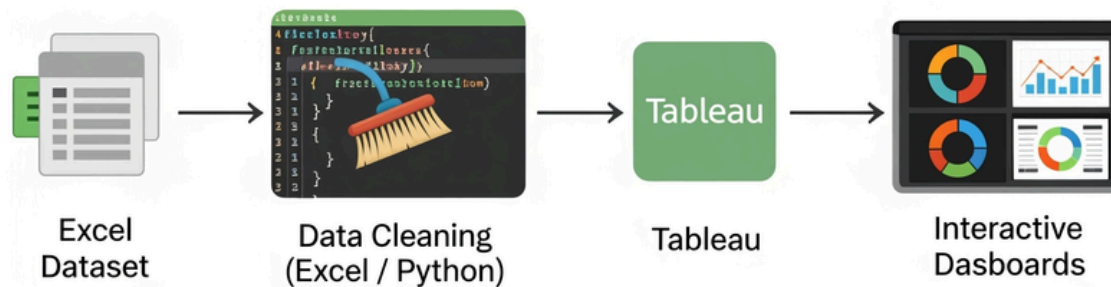


Project Design Phase-II Technology Stack (Architecture & Stack)

DATE	26 JUNE 2025
TEAM ID	LTVIP2025TMID51830
PROJECT NAME	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
MAXIMUM MARKS	4Marks

Technical Architecture:



TECHNOLOGY STACK

Component	Description	Technology
Data Source	Source of transformed	Microsoft Excel (.xlsx)
Data Cleaning	Preprocess data (remove missing	Excel / Tableau Prep
Data Aggregation	Group and summarize data	Tableau (Calculated
Visualization Engine	Generate visual charts like	Tableau Desktop / Tableau Public
User Interaction Layer	Add filters, dropdowns,	Tableau Filters & Parameters
Geo-Mapping	Show houses on map based on	Tableau Map Visualization
Hosting & Sharing	Publish dashboards for	Tableau Public
Documentation	Record brainstorming,	Google Docs / Microsoft Word
Presentation Layer	Display final output to stakeholders and evaluators	Microsoft PowerPoint / Canva

APPLICATION CHARACTERISTICS

Characteristic	Description (Based on Your	Technology Used
Open-Source Frameworks	Tableau Public is free-to-use and	Tableau Public
Security Implementations	Data is hosted securely on	Tableau Access Controls
Scalable Architecture	Dashboard can handle more	Tableau Engine
Availability	Tableau dashboards are	Tableau Public Hosting
Performance Considerations	Lightweight Excel file ensures fast	Optimized Tableau