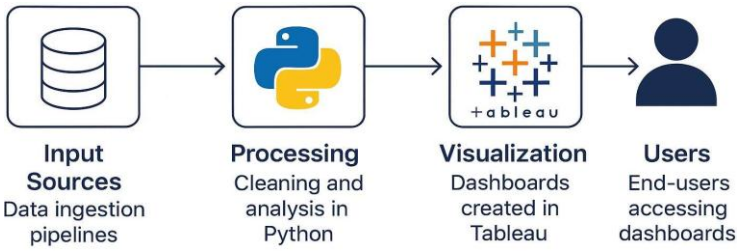
Project Design Phase
Solution Architecture

Date	29 June 2025
Team ID	LTVIP2025TMID49726
Project Name	Visualizing Housing Market Trends An Analysis of Sale Prices and Features using Tableau
Maximum Marks	4 Marks

Solution Architecture:



1. Input Sources:

- Raw data from CSV files containing house sales, renovation history, and property details.
- APIs for external real estate data.

2. Data Processing Layer:

- Local Processing: Python scripts using libraries like Pandas and NumPy for cleaning and preprocessing.
- Cloud Integration: Data processed on cloud platforms like AWS or Azure for scalability and reliability.

3. Visualization Layer:

- Tableau for creating interactive dashboards.
- Dashboards hosted on Tableau Public or Tableau Online for real-time sharing and accessibility.

4. User Interaction Layer:

- Dashboards accessed via web browsers by stakeholders.
- Filters and interactivity enable users to analyze data specific to their needs.

5. Infrastructure:

- Data storage: Local storage for raw data; cloud storage (e.g., AWS S3) for processed and visualized data.
- Hosting: Tableau Online for global accessibility and collaboration**.**