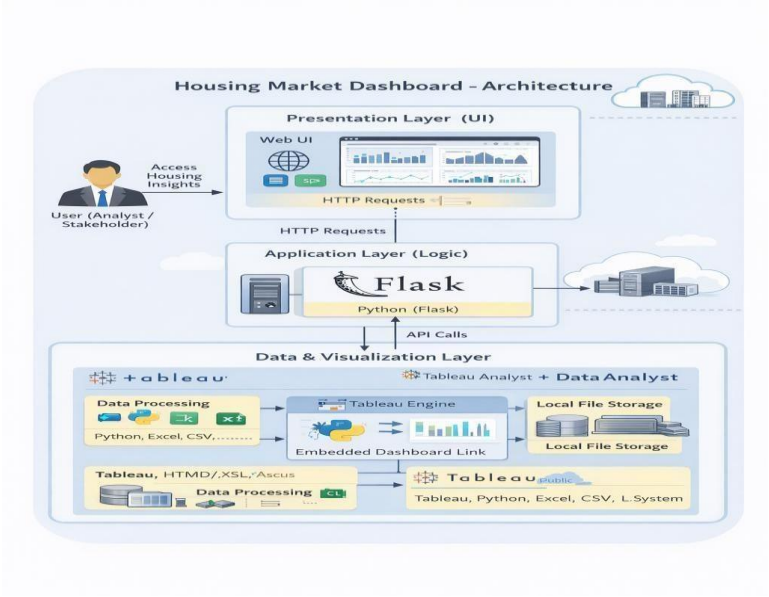
Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	17 Feb 2026
Team ID	LTVIP2026TMIDS75520
Project Name	Visualization Housing Market Trends
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2



Guidelines:

- Include all the processes (As an application logic / Technology Block)
- Provide infrastructural demarcation (Local / Cloud)
- Indicate external interfaces (third party API's etc.)
- Indicate Data Storage components / services
- Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1	User Interface	Interface to view dashboards and stories	HTML, CSS, JavaScript
2	Application Logic	Handles routing and integration logic	Python (Flask)
3	Visualization Engine	Creates interactive dashboards & stories	Tableau
4	Data Processing	Data cleaning and transformation	Tableau
5	Database	Stores processed housing dataset	CSV / Local File System
6	File Storage	Stores datasets and static files	Local File System
7	External Visualization Link	Embedded dashboard access	Tableau Public
8	Infrastructure	Application deployment environment	Local Server

Table-2: Application Characteristics:

S.No	Characteristic	Description	Technology
1	Open-Source Frameworks	Used for backend web development	Flask (Python)
2	Security Implementation	Restricts unwanted access	Flask routing, basic access control
3	Scalable Architecture	Supports adding new datasets and dashboards	3-Tier Architecture
4	Availability	Application available during runtime	Localhost Deployment
5	Performance	Optimized dashboard rendering	Tableau Interactive Views