

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

Date	25 -7- 2025
Team ID	PNT2025TMID08397
Project Name	<b>Visualizing Housing Market Trends Using Tableau for ABC Company</b>
Maximum Marks	4 Marks

**Technical Architecture:**

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

**Example: Order processing during pandemics for offline mode**

**Reference:** <https://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/>

**Architecture Components:**

- **Dashboard creation:** Tableau Desktop / Tableau Public for building visual analytics.
- **User interaction:** Stakeholders access dashboards through Tableau Public link

Google Drive (Optional)

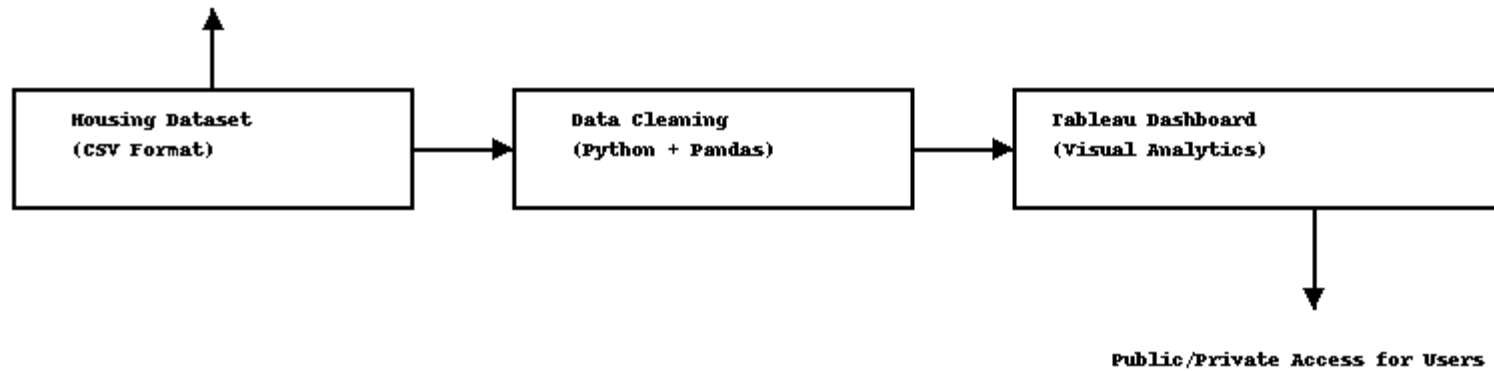


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Interactive visualization dashboard	Tableau Public
2.	Database	Source CSV housing data	CSV

3.	File Storage	Storage of processed CSV / Tableau Workbook (.twbx)	Tableau Public
4.	External API-1	None used	
5.	External API-2	-	-
6.	Infrastructure (Server / Cloud)	Tableau Public	Tableau Public

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Security Implementations	Tableau Public uses built-in access control; Google Drive needs permission	OAuth (Google), Tableau sharing settings
2.	Availability	Tableau Public ensures 24/7 hosted access	Tableau Public
3.	Performance	Dashboards optimized for 50K+ records; filters for faster rendering	Tableau Filter Actions, Extracts

**References:**

<https://c4model.com/>

<https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/>

<https://www.ibm.com/cloud/architecture>

<https://aws.amazon.com/architecture>

<https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d>