

## Project Design Phase-II

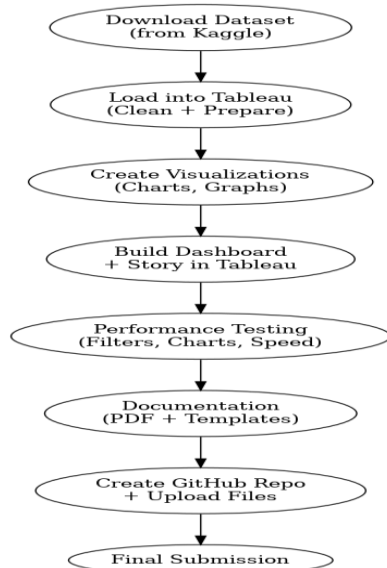
### Data Flow Diagram & User Stories

|               |  |
|---------------|--|
| Date          | 26-06-2025   |
| Team ID       | LTVIP2025TMID51031   |
| Project title | Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau |
| Maximum Marks | 4 M  |

#### Data Flow Diagrams:

In this project, the housing dataset (CSV file) is loaded into Tableau for analysis. Tableau processes the data to create multiple visualizations, which are organized into a dashboard and story. The end result is shared via Tableau Public, allowing real estate analysts and buyers to explore insights through an interactive interface.

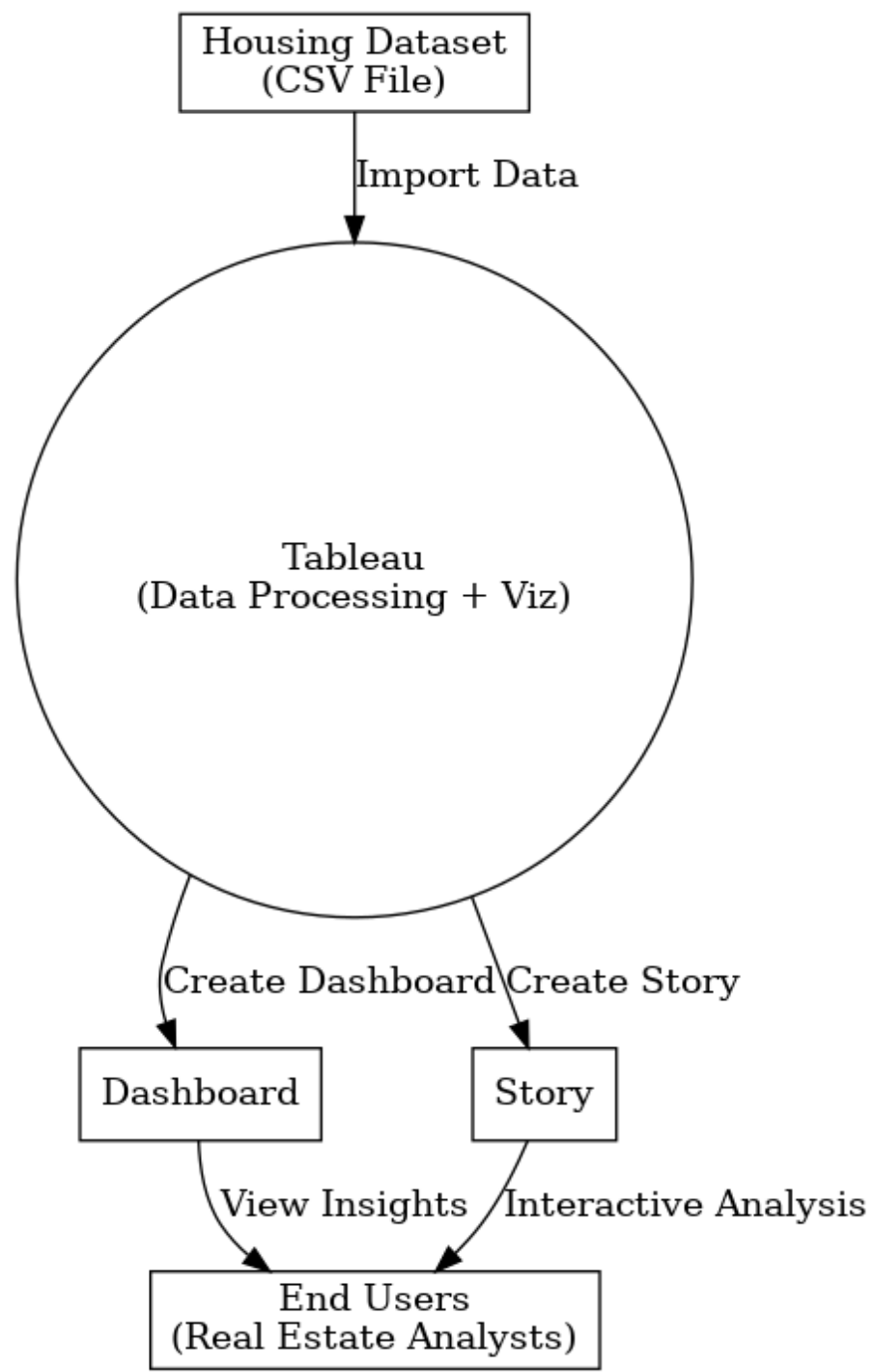
#### Flow Diagram:



#### DFD level 0:

This Level 0 DFD shows the overall flow of data in the project. The process begins with importing the housing dataset (CSV file) into Tableau, where the data is processed and transformed into visual insights. These insights are presented through a Dashboard and **Story**, which are shared with end **users** like real estate analysts, marketing teams, and decision-makers at ABC Company.

The goal of this data flow is to help users easily explore trends in housing prices and features, enabling smarter, data-driven decisions.



| User Type           | Functional Requirement (Epic) | User Story Number | User Story / Task  | Acceptance Criteria                                   | Priority | Release    |
|---------------------|-------------------------------|-------------------|--|---|----------|------------|
| Real Estate Analyst | Data Access                   | USN-1             | As a user, I can view sales data based on renovation year  | I can see sales trends by years since renovation      | High     | Release -1 |
| Real Estate Analyst | Data Comparison               | USN-2             | As a user, I can compare house age grouped by bedrooms, bathrooms, and floors                    | I can view grouped bar charts based on house features | High     | Release -1 |
| Real Estate Analyst | Overview Dashboard            | USN-3             | As a user, I can access a dashboard with summary stats (average sale price, basement area, etc.) | Dashboard is visible and interactive                  | Medium   | Release -1 |
| Company Executive   | Story Insights                | USN-4             | As a user, I can go through a story that highlights key housing trends                           | Story walks through insights clearly                  | Medium   | Release -2 |
| Marketing Team      | Visual Filters                | USN-5             | As a user, I can filter visual data by renovation status or house                                | Filters are available on dashboard and respond        |          | Release -1 |
|                     |                               |                   | condition  | instantly   | High     |            |
| Administrator       | Performance Metrics           | USN-6             | As a user, I can track data load performance and responsiveness of the dashboard                 | System remains smooth with filters applied            | Low      | Release-2  |