

**Project Design Phase-II**  
**Data Flow Diagram & User Stories**

Date	15 FEB 2026
Team ID	PNT2025TMID10260
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	4 Marks

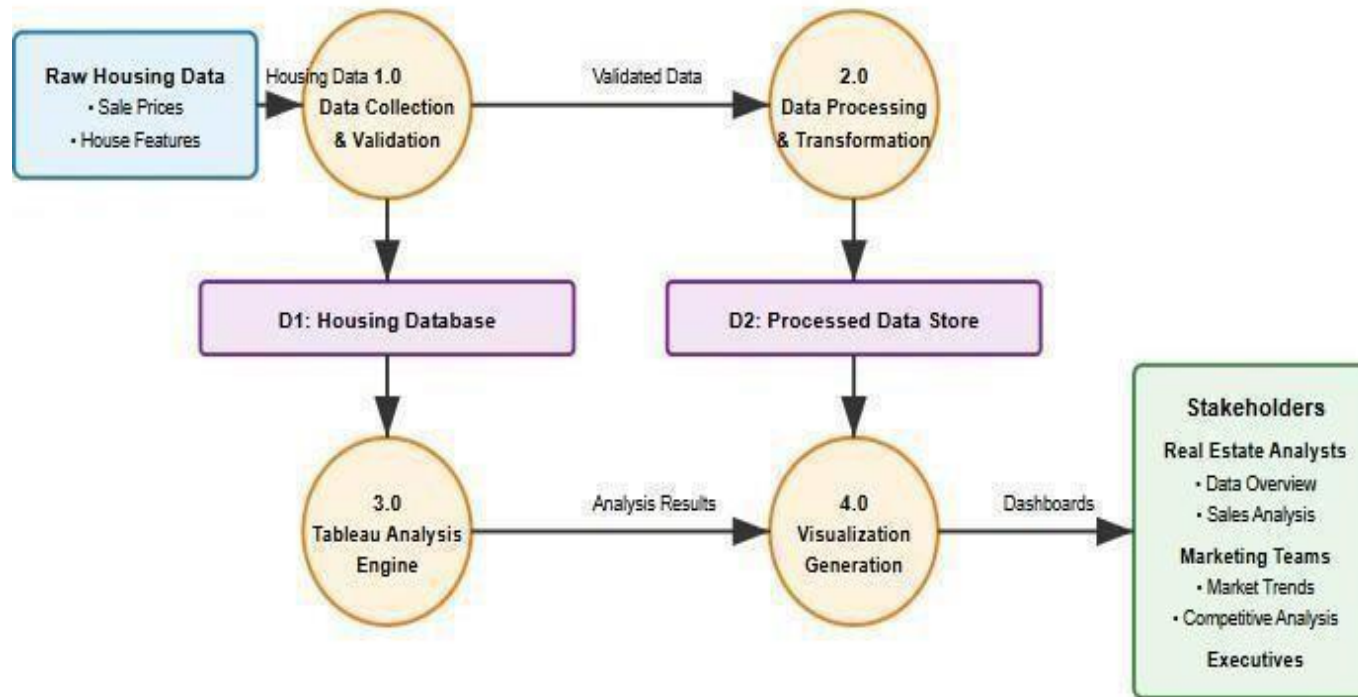
**Data Flow Diagrams:**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

### Level 0: Context Diagram - Housing Market Analysis System



## Level 1: Detailed Data Flow Diagram - Housing Market Analysis



### Scenarios Supported:

1. Overall Data Overview - Summary statistics and key metrics
2. Total Sales by Years Since Renovation - Histogram analysis
3. House Age Distribution by Renovation Status - Pie chart visualization
4. House Age by Bathrooms, Bedrooms, Floors - Grouped bar charts

Data Flows: Raw Data → Validation → Processing → Analysis → Visualization → Stakeholders

## User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Real Estate Analyst	Data analysis & Visualization	USN-1	As a real estate analyst, I can view the overall data overview dashboard to understand the dataset scale and key metrics	I can see count of housing records, average sales price, and total basement area	High	Sprint-1
Real Estate Analyst	Renovation Impact analysis	USN-2	As a real estate analyst, I can analyze total sales by years since renovation through histogram visualization	I can identify correlation between renovation timing and price ranges	High	Sprint-1
Real Estate Analyst	House Age Distribution	USN-3	As a real estate analyst, I can view house age distribution by renovation status through pie chart	I can assess age characteristics and renovation prevalence	High	Sprint-1
Real Estate Analyst	Feature analysis	USN-4	As a real estate analyst, I can analyze house age distribution by number of bathrooms, bedrooms, and floors	I can identify patterns in housing characteristics over time	High	Sprint-2
Real Estate Analyst	Interactive dashboard	USN-5	As a real estate analyst, I can access an interactive dashboard combining all visualizations	I can navigate between different views and filter data dynamically	Medium	Sprint-2