Project Design Phase-II
Data Flow Diagram & User Stories
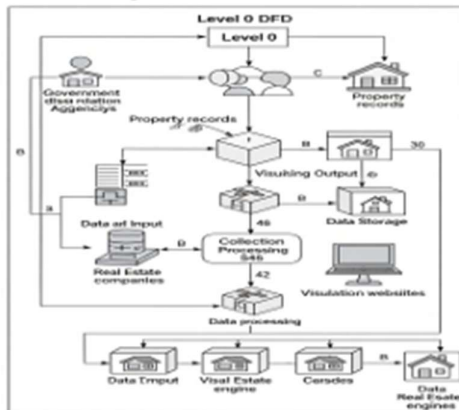
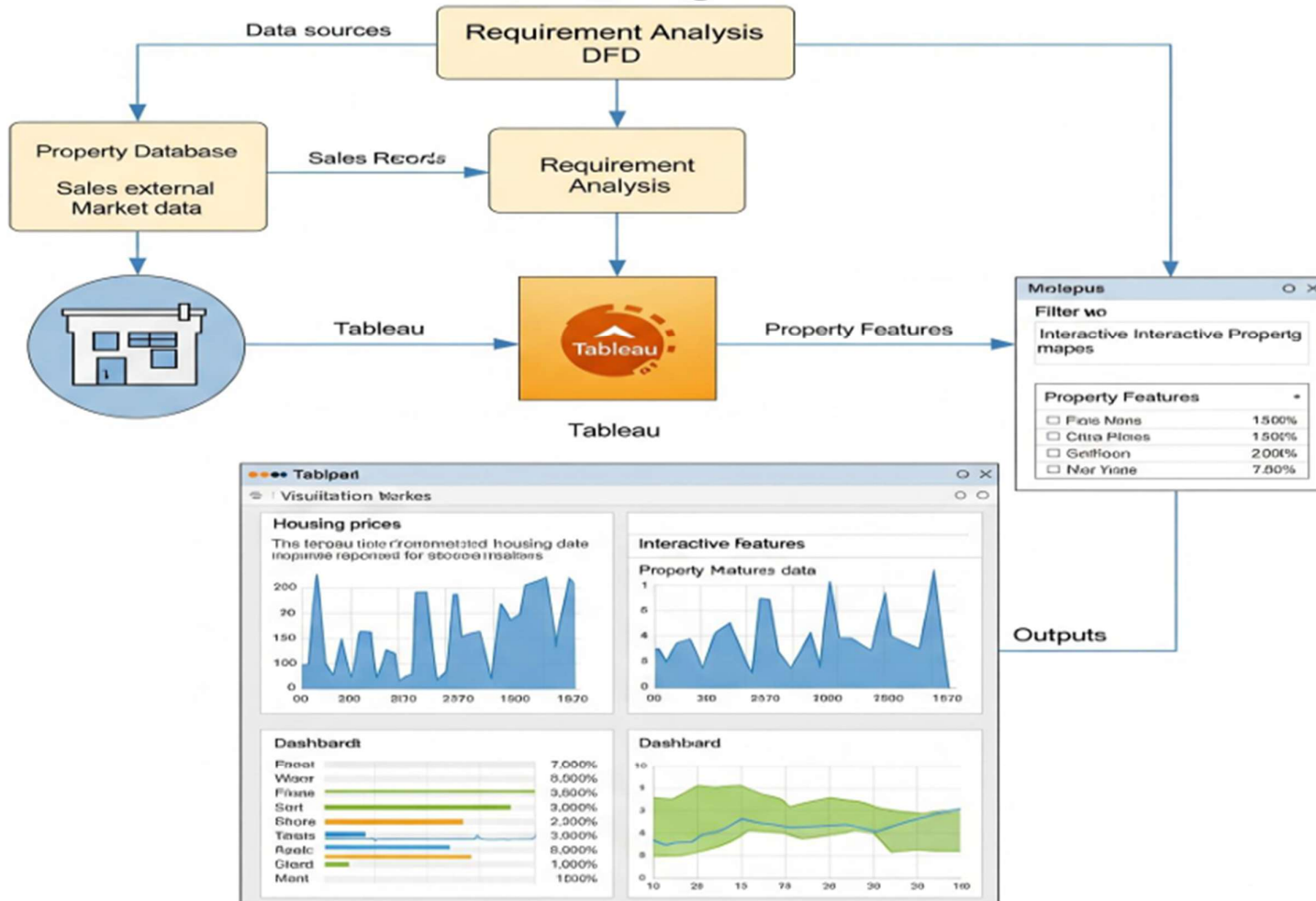| Date	30 June 2025
Team ID	LTVIP2025TMID49628
Project Name	Visualizing Housing Market Trends An Analysis of Sale Prices and Features using Tableau
Maximum Marks	4 Marks

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.

Example: (Simplified)

Visulization of Housing Market trends

Requirement Analysis DFD

Data sources

Property Database

Sales external Market data

Sales Reords

Requirement Analysis

Tableau

Tableau

Property Features

Tableau

Molepus

Filter wo

Interactive Interactive Property mapes

Property Features	
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☐ Ctra Ploes	1.50%
☐ Gaffloon	2.00%
☐ Nor Yine	7.50%

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Housing prices

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Interactive Features

Property Matures data

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Wloer	8.000%
Ftone	3.800%
Sart	3.000%
Shore	2.300%
Tlasts	3.000%
Agelc	8.000%
Gterd	1.000%
Ment	1.000%

Dashbard

Outputs

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	View housing trend summary	US-01	As an analyst, I want to see overall metrics like avg. price and area	Dashboard shows total houses, avg sale price, and total basement area in KPI cards	High	Sprint-1
Real Estate Analyst	Analyze sales by renovation age	US-02	As an analyst, I want to visualize sales grouped by years since renovation	Histogram displays price distribution by renovation age	High	Sprint-1
Analyst/Manager	Compare house age by features	US-03	As a user, I want to compare house age with number of bathrooms, floors, and bedrooms	Grouped bar charts are shown for each feature category against house age	Medium	Sprint-1
Data Engineer	Load and preprocess data	US-04	As a data engineer, I want to prepare and clean the dataset for Tableau	All null values are handled, calculated fields are created (age, years since renovation)	High	Sprint-1
Analyst	Explore renovated vs. non-renovated homes	US-05	As a user, I want to view the proportion of renovated homes by age	Pie chart shows segmented age groups with renovation status	Medium	Sprint-1
Business Analyst	Filter and interact with visual data	US-06	As a user, I want to filter the dashboard by features like age, bedrooms, etc.	Filters are working for bedrooms, bathrooms, age, and renovation status	High	Sprint-1