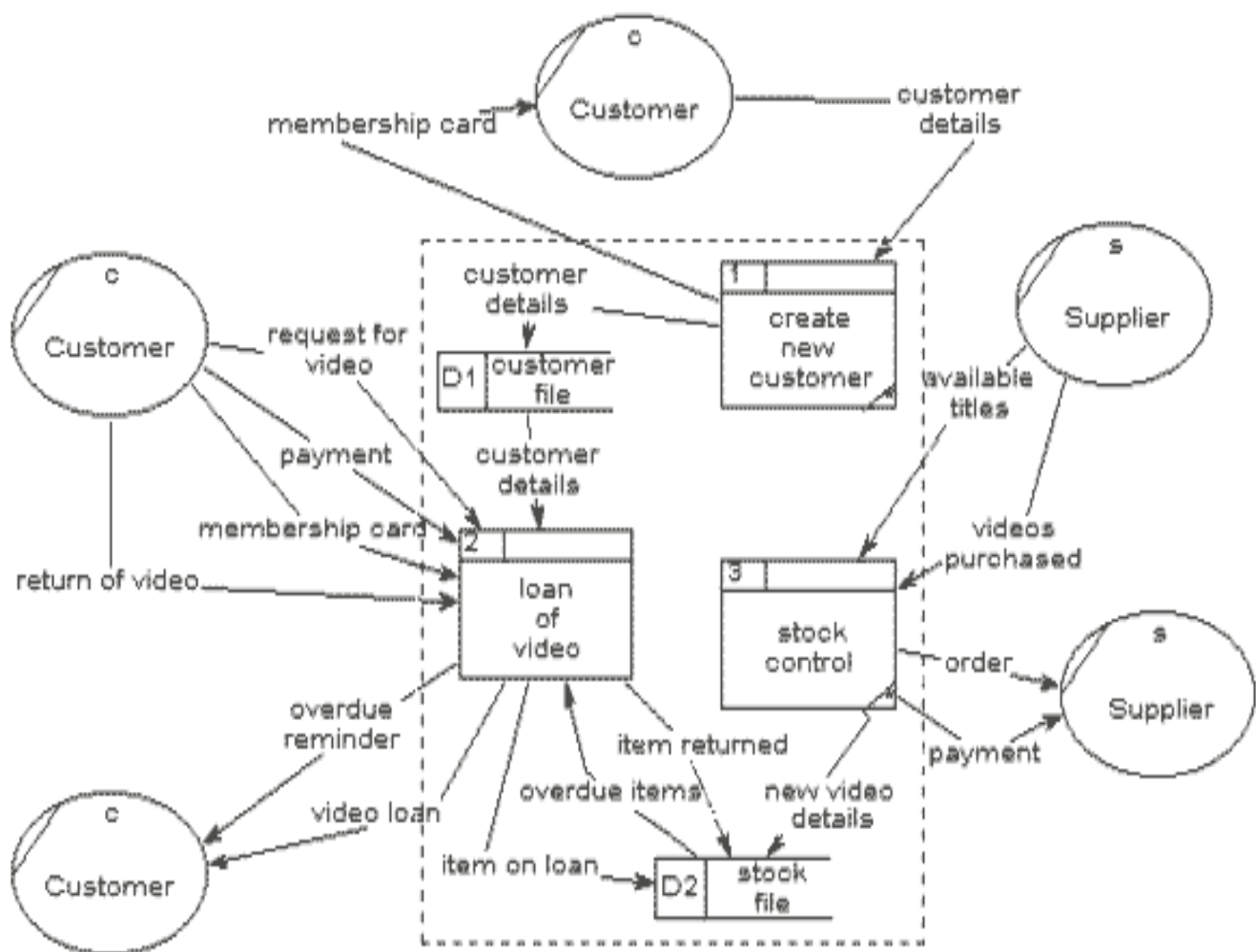


Project Design Phase-II Data Flow Diagram & User Stories

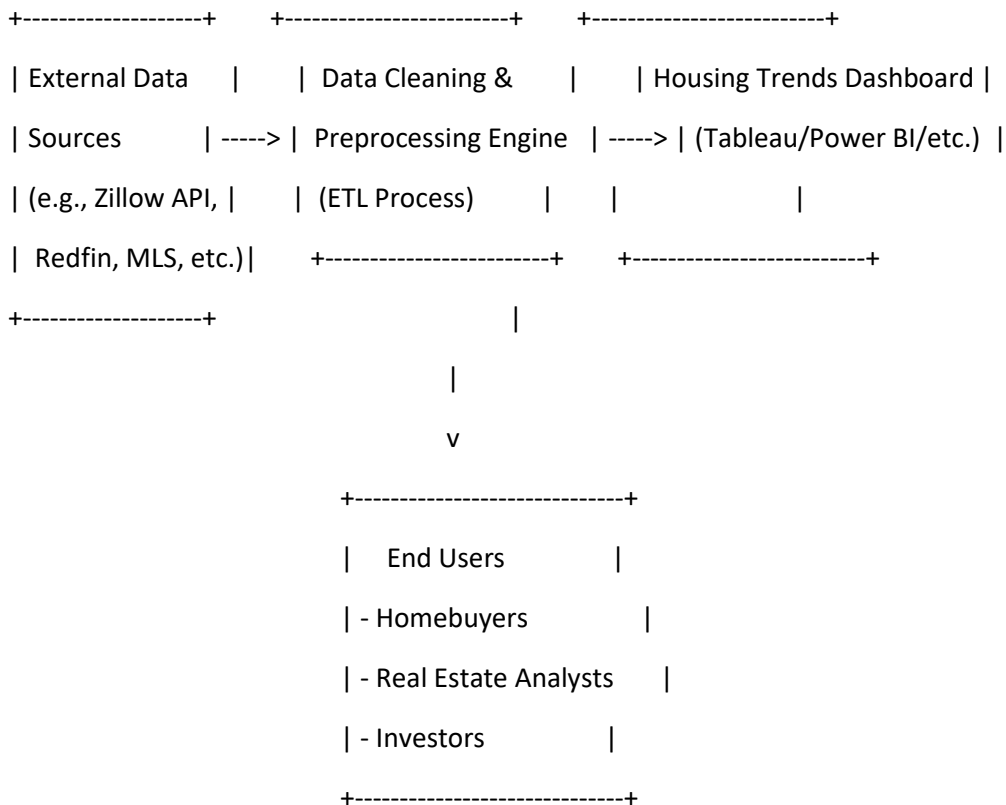
Date	20 June 2025
Team ID	LTVIP2025TMID47753
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features
Maximum Marks	4 Marks

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.



DFD (Text Representation)



Data Stores

- **Raw Data Store:** Historical sale prices, square footage, lot size, ZIP codes, etc.
- **Processed Data Store:** Cleaned, transformed, and aggregated metrics (e.g., median price per sq ft, YoY change)

✅ User Stories – Visualizing Housing Market Trends

Use **Agile-style user stories** based on different personas:

👤 As a Homebuyer...

1. ...I want to see how housing prices have changed over time in my neighborhood, so I can decide when to buy.
2. ...I want to compare median home prices across nearby ZIP codes, so I can find more affordable areas.
3. ...I want to filter listings by number of bedrooms and square footage, so I can see trends specific to my needs.

👤 As a Real Estate Analyst...

4. ...I want to analyze trends in home features (e.g., garage, pool, lot size), so I can identify what's driving price changes.

5. ...I want to export charts and data from the dashboard, so I can include them in market reports.
6. ...I want to overlay housing price trends with demographic data (e.g., income, population growth), so I can assess market potential.



As an Investor...

7. ...I want to identify ZIP codes where housing prices are increasing fastest, so I can find investment opportunities.
 8. ...I want to forecast price trends for the next year, so I can plan my purchases.
 9. ...I want to receive alerts when certain market conditions are met, so I don't miss critical timing.
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