

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

Date	16/06/25
Team ID	LTVIP2025TMID51568
Project Name	ToyCraft Tales: Tableau's Vision into Toy Manufacturer Data
Maximum Marks	4 Marks

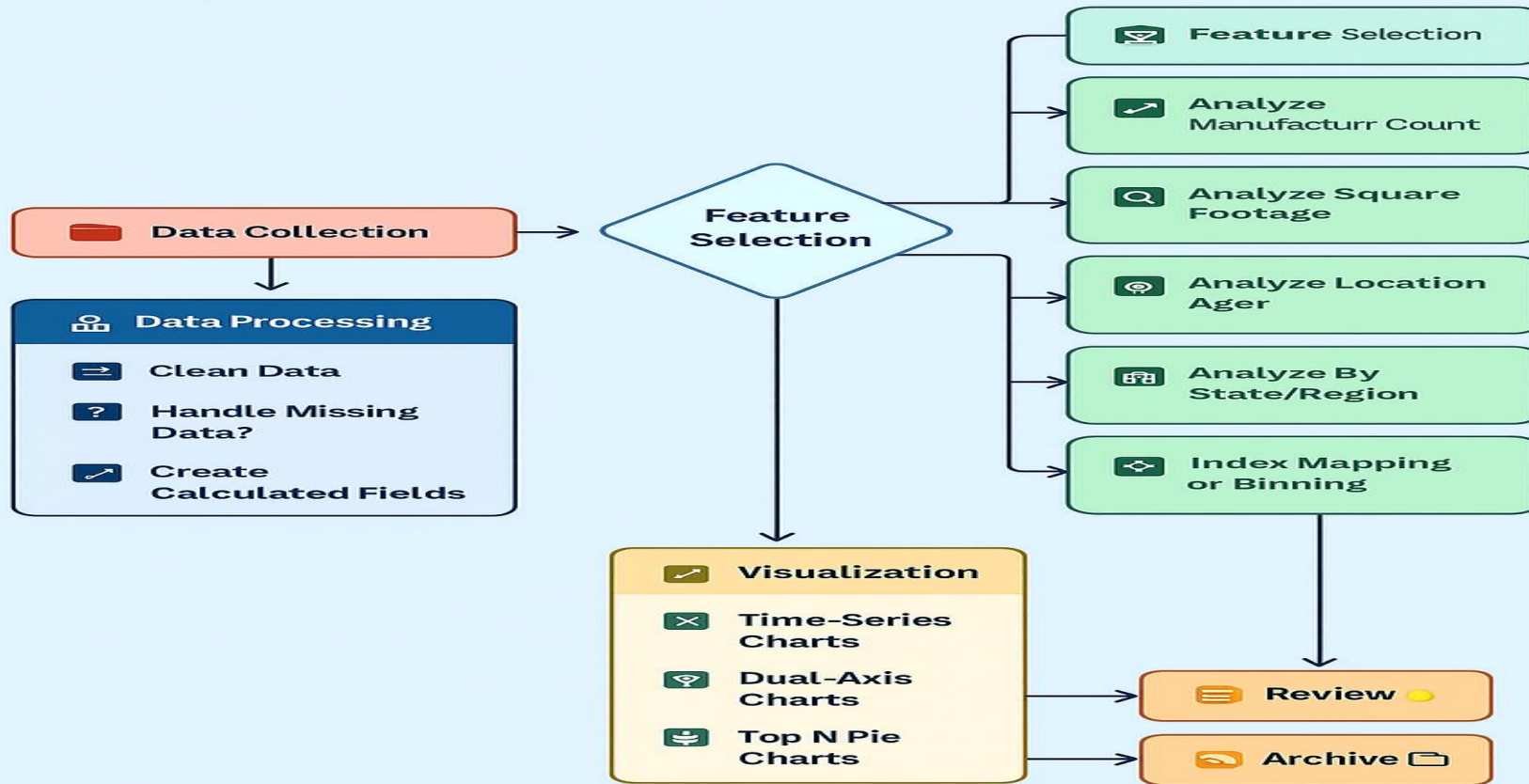
**Data Flow Diagram – ToyCraft Tales**

A Data Flow Diagram (DFD) shows how data moves through our project, from collection to final output.

1. Data Collection: CSV file with toy manufacturer data (2005–2016) imported.
2. Data Cleaning: Duplicates removed, nulls handled, calculated fields (e.g., Index Bin) created using MySQL.
3. Visualization: Charts built in Tableau (line, pie, dual-axis, map) to analyze trends and patterns.
4. Review & Feedback: Dashboard refined with filters (State, Year) based on user input.
5. Deployment: Final visuals embedded in a Flask web app for presentation and sharing.

# Data Flow Diagram (DFD)

## ToyCraft Tales



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority / Release
Analyst / Manager	View Manufacturing Trends	USN-1	As a user, I want to view toy manufacturing trends by year and state to spot patterns.	I can filter and view charts for selected years and states.	High / Sprint-1
Analyst	Compare States & Regions	USN-2	As a user, I want to compare top and bottom states by toy manufacturer count.	I can view bar or pie charts with ranked state-wise data.	Medium / Sprint-1
Business Strategist	Analyze Seasonal Demand	USN-3	As a user, I want to understand seasonal toy production to plan inventory better.	I can view time-series charts showing production peaks and lows.	High / Sprint-2
Marketing Analyst	View Index-Based Segmentation	USN-4	As a user, I want to analyze toy manufacturer distribution using index bins.	Index bin-based dual-axis charts are available for exploration.	High / Sprint-2
Developer	Database Connection	USN-5	As a user, I want Tableau to connect to MySQL database for real-time updates.	Tableau is linked to MySQL and refreshes data on load.	Medium / Sprint-2

Stakeholder	Export Visuals & Insights	USN-6	As a user, I want to export dashboard visuals to use in reports and presentations.	I can download images or PDFs of the dashboards from the app.	Low / Sprint-3
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