Project Design Phase-II
Data Flow Diagram & User Stories

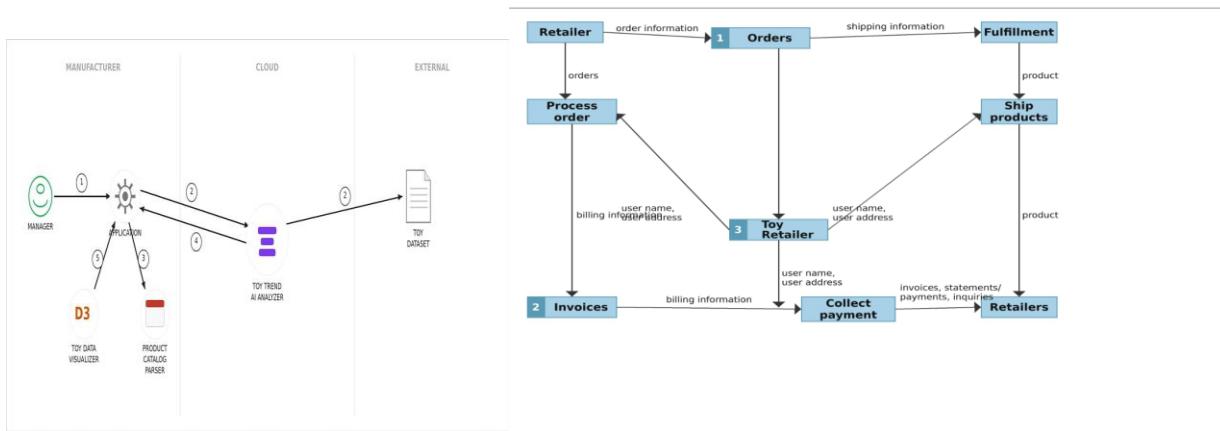| Date	31 January 2025
Team Id	LTVIP2026TMIDS36439
Project Name	Toycraft Tales Tableau's vision into Toy manufactures data
Maximum Marks	4 Marks

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).
FLOW

➔ **Request Initiation**: The Manager triggers the process by sending a command (1) to the local Application.
➔ **Cloud Analysis:** The Application communicates (2) with the Toy Trend AI Analyzer in the cloud, which pulls data from an External Toy Dataset.
➔ **Local Parsing**: The Application sends data (3) to the Product Catalog Parser to structure internal product information.
➔ **Data Integration**: The AI Analyzer returns the processed trend results (4) back to the central Application.

User Stories

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

User Type	Functional Requiremen(Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web User)	Dashboard	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password	I can see a "Top Trends" bar chart that updates based on sales data.	Medium	Sprint-1
Customer (Web User)	Dashboard	USN-2	As a user, I want to filter toy data by age group to find relevant gift ideas.	The dashboard filters results instantly when an age range is selected.	Low	Sprint-2
Customer Care Executive	Inventory Tracking	USN-3	As an executive, I want to check real-time stock levels to answer customer availability queries.	I can search for a toy by ID and see the exact stock count across warehouses.	High	Sprint-1
Customer Care Executive	Feedback Analysis	USN-4	As an executive, I want to see a sentiment chart of toy reviews to identify quality issues.	A word cloud or sentiment bar shows common customer complaints/praise.	Medium	Sprint-2
Administrator	Data Management	USN-5	As an admin, I want to upload monthly factory production data to update the visuals.	The dashboard reflects new data within seconds of a CSV upload.	High	Sprint-1

Administrator	Strategic Vision	USN-6	As an admin, I want to view a geographical heatmap to see which regions have low sales.	A map visualization shows sales volume by city/region using color gradients.	High	Sprint-1
Administrator	Cost Analysis	USN-7	As an admin, I want to compare manufacturing costs vs. retail price to find profit margins.	A scatter plot displays the "Profit Gap" for every toy category.	Medium	Sprint-2