Project Design Phase-II
Data Flow Diagram & User Stories

Date	28 June 2025
Team ID	LTVIP2025TMID50995
Project Name	ToyCraft Tales: Tableau's Vision into Toy Manufacturer 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: DFD Level 0 (Industry Standard)

Example: (Simplified)
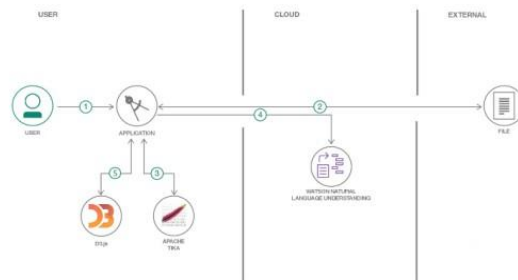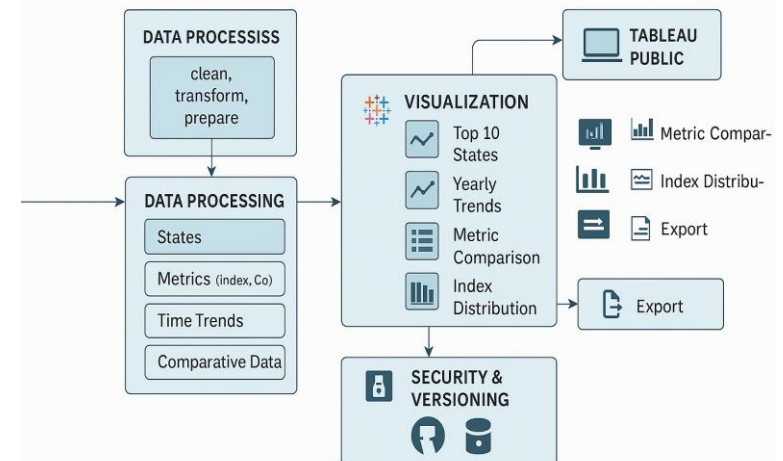

1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.

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
Manufacturer	Data Exploration	USN-1	As a manufacturer, I can view state-wise trends to identify growth/decline patterns	Heatmap loads with 2005-2016 data; filters work	High	Sprint-1
Policymaker	Policy Simulation	USN-2	As a policymaker, I can test how tax changes might impact local manufacturers	Simulator shows % change in manufacturers	High	Sprint-3
Data Analyst	Advanced Analytics	USN-3	As an analyst, I can drill down into specific states/years for granular insights	Clicking a state displays detailed time-series	Medium	Sprint-2
Investor	Predictive Insights	USN-4	As an investor, I can access decline-risk scores to guide funding decisions	Risk scores appear for all states (1-10 scale)	High	Sprint-2
Admin	System Maintenance	USN-5	As an admin, I can update datasets without disrupting user access	New data reflects in <1 hour	Low	Sprint-3
User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Manufacturer	Data Exploration	USN-1	As a manufacturer, I can view state-wise trends to identify growth/decline patterns	Heatmap loads with 2005-2016 data; filters work	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Policymaker	Policy Simulation	USN-2	As a policymaker, I can test how tax changes might impact local manufacturers	Simulator shows % change in manufacturers	High	Sprint-3
Data Analyst	Advanced Analytics	USN-3	As an analyst, I can drill down into specific states/years for granular insights	Clicking a state displays detailed time-series	Medium	Sprint-2
Investor	Predictive Insights	USN-4	As an investor, I can access decline-risk scores to guide funding decisions	Risk scores appear for all states (1-10 scale)	High	Sprint-2
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