

Project Design Phase-II Data Flow Diagram & User Stories

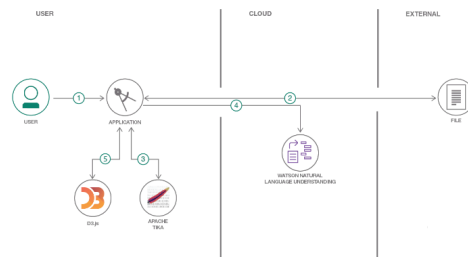
Date	23 June 2025
Team ID	LTVIP2025TMID51596
Project Name	Heritage Treasures: An In-Depth Analysis of UNESCO World Heritage Sites in Tableau
Maximum Marks	4 Marks

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.

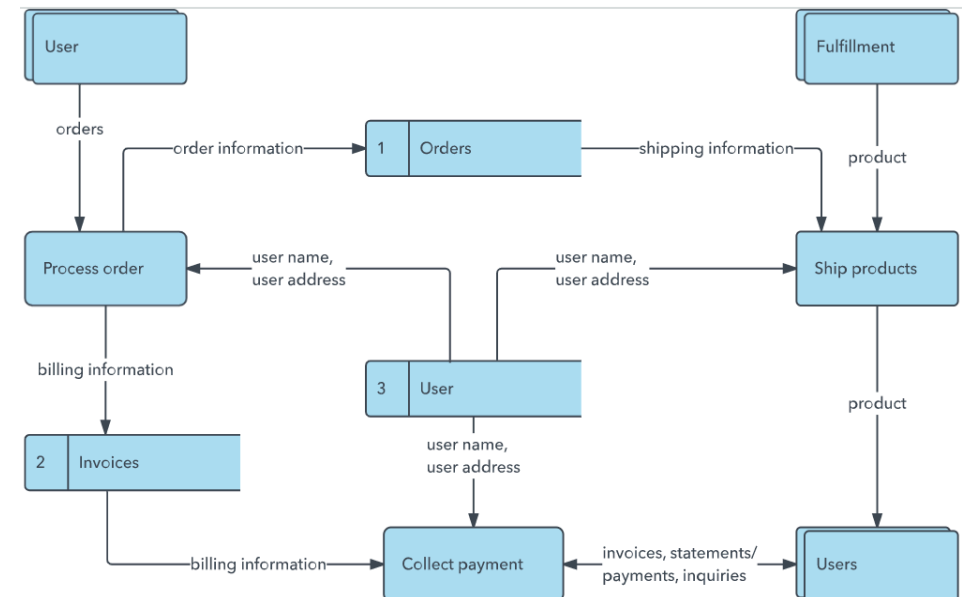
Example: (Simplified)

Flow



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.

Example: DFD Level 0 (Industry Standard)



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
Data Analyst / Viewer	Sites Distribution by Country	USN-1	As a user, I want to view which countries have the most UNESCO sites using a treemap or bubble chart.	I can see countries sized by the count of heritage sites and identify top nations.	High	Sprint-1
Data Analyst / Viewer	Risk Analysis	USN-2	As a user, I want to understand how many heritage sites are at risk using a pie chart visualization.	I can clearly see the percentage of endangered vs. safe heritage sites.	High	Sprint-1
Data Analyst / Viewer	Trend Over Time by Region	USN-3	As a user, I want to analyze the yearly inscription trends by region using a line chart.	I can view the number of inscriptions over time segmented by region.	Medium	Sprint-2
Policy Maker / Educator	Global Dashboard View	USN-4	As a user, I want a dashboard summarizing country-wise, risk, and temporal data in one view.	I can access a consolidated dashboard showing all 3 analyses with filters.	High	Sprint-2
Tableau Developer	Filters for Custom Exploration	USN-5	As a user, I want to filter heritage data by region, type, and country for better insights.	I can apply filters like region, country, and site type to customize my view.	High	Sprint-2

Educator / Trainer	Educational Insights	USN-6	As a user, I want to present students with regional trends of heritage recognition over time.	I can use the dashboard to explain heritage growth patterns and site diversity.	Medium	Sprint-2
Conservationist	Danger Zone Focus	USN-7	As a user, I want to focus on endangered sites by filtering and drilling down by region or country.	I can view and filter only the endangered sites and analyze their location and type.	High	Sprint-2
Data Analyst / Viewer	Country-Level Comparison	USN-8	As a user, I want to compare two or more countries in terms of number and types of sites.	I can select multiple countries and compare them side-by-side in a chart or graph.	Medium	Sprint-3
Stakeholder / Planner	Decision Support	USN-9	As a user, I want to use data insights to support funding or preservation priorities.	I can extract actionable insights for planning policies or allocating resources.	High	Sprint-3
General Public / Viewer	Awareness and Engagement	USN-10	As a user, I want to explore and learn about global heritage diversity through visual stories.	I can interact with visuals and learn about different heritage sites around the world.	Low	Sprint-3