

Project Design Phase-II Data Flow Diagram & User Stories

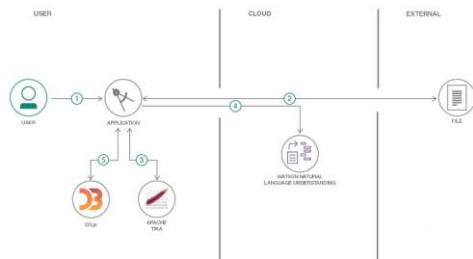
Date	26 june 2025
Team ID	LTVIP2025TMID49207
Project Name	Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis
Maximum Marks	4 Marks

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.

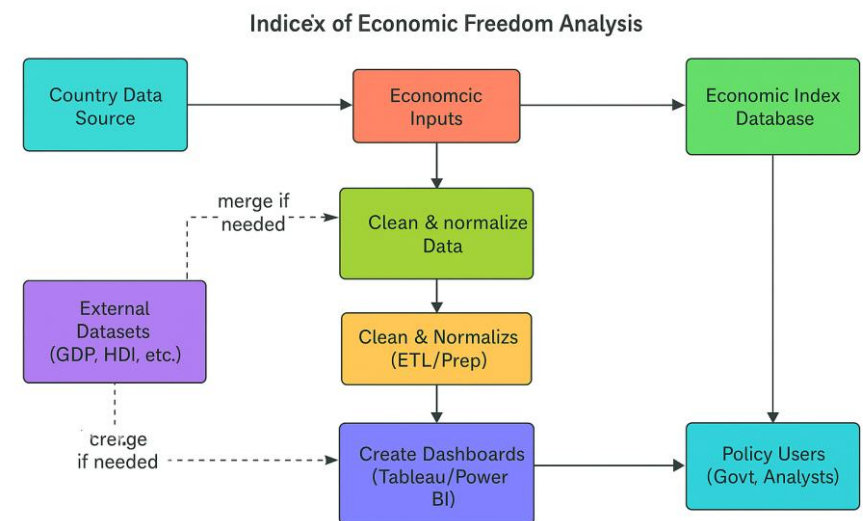
Example: [\(Simplified\)](#)

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
Policy Analyst	Dashboard Access	USN-1	As an analyst, I want to view economic freedom index scores by country and component	I can view a clear country-wise ranking and detailed sub-indicator data	High	Sprint-1
Policy Analyst	Comparative Analysis	USN-2	As a user, I want to compare multiple countries across years on key indicators	I can select countries and see trends and gaps	High	Sprint-2
Data Analyst	Data Cleaning	USN-3	As a data analyst, I want to normalize and standardize raw input data	All numeric inputs cleaned and aligned for analysis	Medium	Sprint-1
Researcher	Data Export	USN-4	As a researcher, I want to export datasets for deeper offline analysis	Downloadable CSV or Excel format from dashboard	Medium	Sprint-2
Government Official	Insights & Reports	USN-5	As a decision-maker, I want to receive a short summary report with top insights	A 1-page summary generated per country or region	High	Sprint-3
Development Planner	Enriched Contextual Data	USN-6	As a user, I want to see the EFI overlaid with GDP, poverty, and HDI metrics	The dashboard supports external indicators overlay	Medium	Sprint-3
General Public	Educational Visualization	USN-7	As a citizen, I want a simplified version of the dashboard to understand my country's ranking	View-only dashboard with legends and storytelling charts	Low	Sprint-4
Policy Analyst	Dashboard Access	USN-1	As an analyst, I want to view economic freedom index scores by country and component	I can view a clear country-wise ranking and detailed sub-indicator data	High	Sprint-1
Policy Analyst	Comparative Analysis	USN-2	As a user, I want to compare multiple countries across years on key indicators	I can select countries and see trends and gaps	High	Sprint-2