

Project Design Phase-II Data Flow Diagram & User Stories

Date	20 June 2025
Team ID	LTVIP2025TMID48703
Project Name	Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis
Maximum Marks	4 Marks

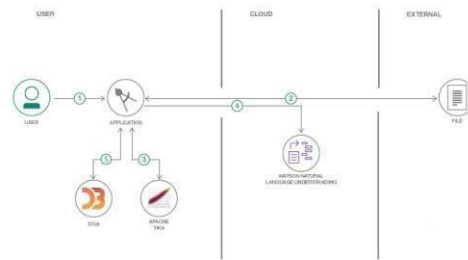
Data Flow Diagrams:

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. DFD Level 0: Overview

- External Entities: Policymaker, Researcher, General User, Administrator
- Processes: Upload Dataset, Analyse Data, Generate Visualizations, Export Reports
- Data Stores: Raw Data, Filtered Results, User Accounts

Example:

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.

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
Policymaker	Data	USN-1	As a Policymaker, I want to view	The map correctly	High	Sprint-1

	Analysis & Visualization		a world map showing economic freedom scores by country, so that I can quickly identify regions with high or low economic prosperity and potential policy impact areas.	displays economic freedom scores, and I can identify regions visually.		
Economic Researcher	Data Analysis & Visualization	USN-2	As an Economic Researcher, I want to filter economic data by specific years and countries, so that I can conduct in-depth analysis on historical trends and compare performance across different nations.	I can apply filters for years and countries, and the data displayed updates accordingly.	High	Sprint-1
Investor	Data Analysis & Visualization	USN-3	As an Investor, I want to see the top 40 and least ranked countries based on their economic index, so that I can identify potential investment opportunities or risks in various markets.	The list of top and least ranked countries is accurate and easily accessible.	High	Sprint-1
User	Data Ingestion & Management	USN-4	As a User, I want to upload new economic datasets (e.g., CSV, Excel), so that I can incorporate the latest information into the analysis and update the index.	I can successfully upload a dataset, and its data is visible in the system.	Medium	Sprint-2
Economic Researcher	Data Analysis & Visualization	USN-5	As an Economic Researcher, I want to view correlations between economic freedom and indicators like unemployment rate and GDP growth, so that I can understand the multifaceted impacts of economic policies.	The system generates a report with selected criteria, and I can download it in my desired format (e.g., PDF).	High	Sprint-2
User	Reporting & Export	USN-6	As a User, I want to export visualizations (e.g., charts, maps) as image files, so that I can easily include them in presentations or reports.	I can export displayed visualizations as image files (e.g., PNG, JPEG).	Medium	Sprint-1
Administrator	User Management & Authorization	USN-7	As an Administrator, I want to manage user accounts and roles, so that I can access levels to sensitive data and functionalities.	I can add, edit, and remove users, and assign.	High	Sprint-1