

Project Design Phase-II

Data Flow Diagram & User Stories

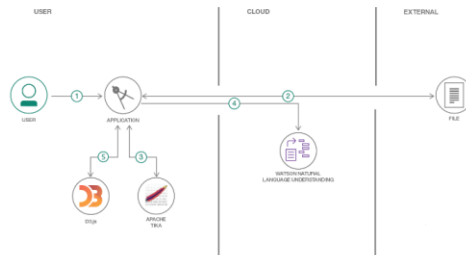
Date	27 June 2025
Team ID	LTVIP2025TMID49412
Project Name	Measuring the pulse of prosperity
Maximum Marks	4 Marks

Data Flow Diagrams:

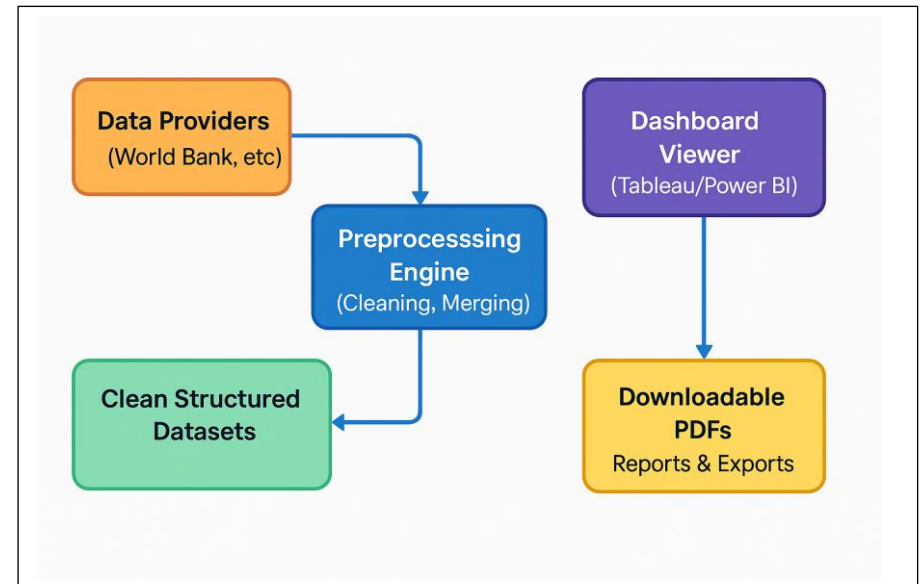
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

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.



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
Research Analyst	Data Upload	USN-1	Upload Economic Freedom Index and GDP datasets	Files upload successfully and appear in dataset list	High / Sprint-1
Research Analyst	Data Preprocessing	USN-2	Clean and merge uploaded datasets	Cleaned dataset is previewable with no missing values	High / Sprint-1
Research Analyst	Visualization Setup	USN-3	Visualize country-wise freedom scores	Charts render for each selected region	High / Sprint-2
Research Analyst	Comparative Analysis	USN-4	Correlate freedom index with GDP/HDI	Correlation graphs display accurately	Medium / Sprint-2
Research Analyst	Filtering & Interaction	USN-5	Filter data by year or region	Filters work and update views immediately	High / Sprint-2
Research Analyst	Export	USN-6	Export dashboard views to PDF	Download includes current view and filter	Medium / Sprint-3

