

Project Design Phase-II
Data Flow Diagram & User Stories

Date	26 October 2023
Team ID	NM2023TMID06875
Project Name	Project - Solar Panel Forecasting
Maximum Marks	4 Marks

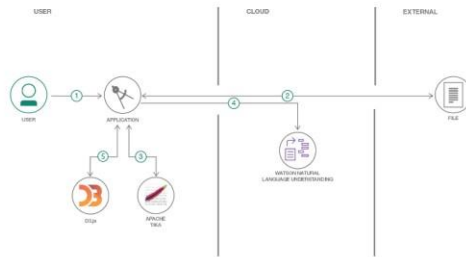
Data Flow Diagrams:

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.

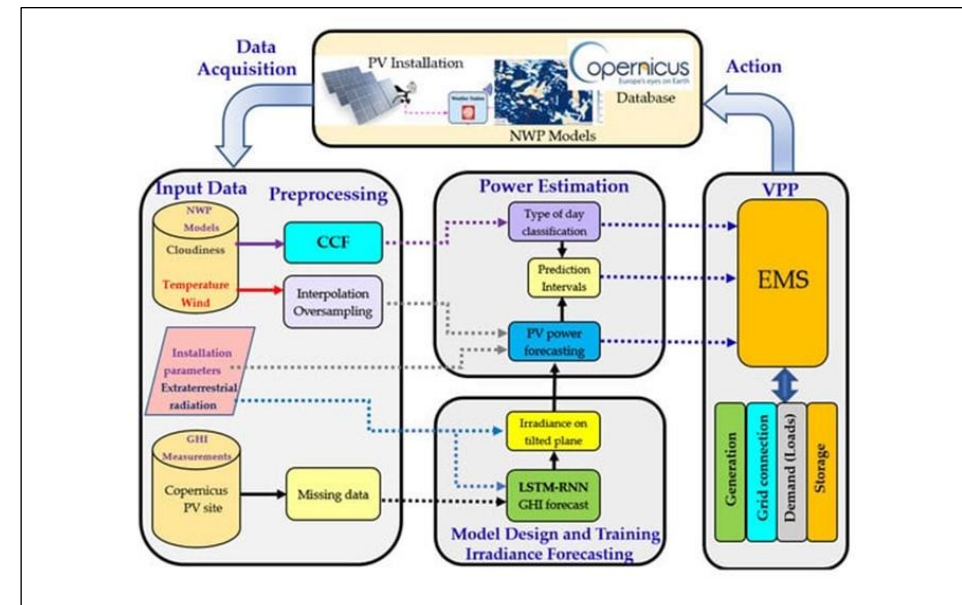
Example: DFD Level 0 (Industry Standard)

Example: (Simplified)

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.

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
Sprint-1	Solar Data Collection	USN-1	As a user I can collect real-time solar power and weather data	5	High
Sprint-1	Data Integration	USN-2	As a user I can integrate data from various sources for accurate forecasting	8	High

Sprint-2	Predictive Modeling	USN-3	As a user I can develop advanced forecasting models for solar power predictions	13	High
Sprint-2	Real-time Updates	USN-4	As a user I can receive real-time solar power forecasts	3	Medium