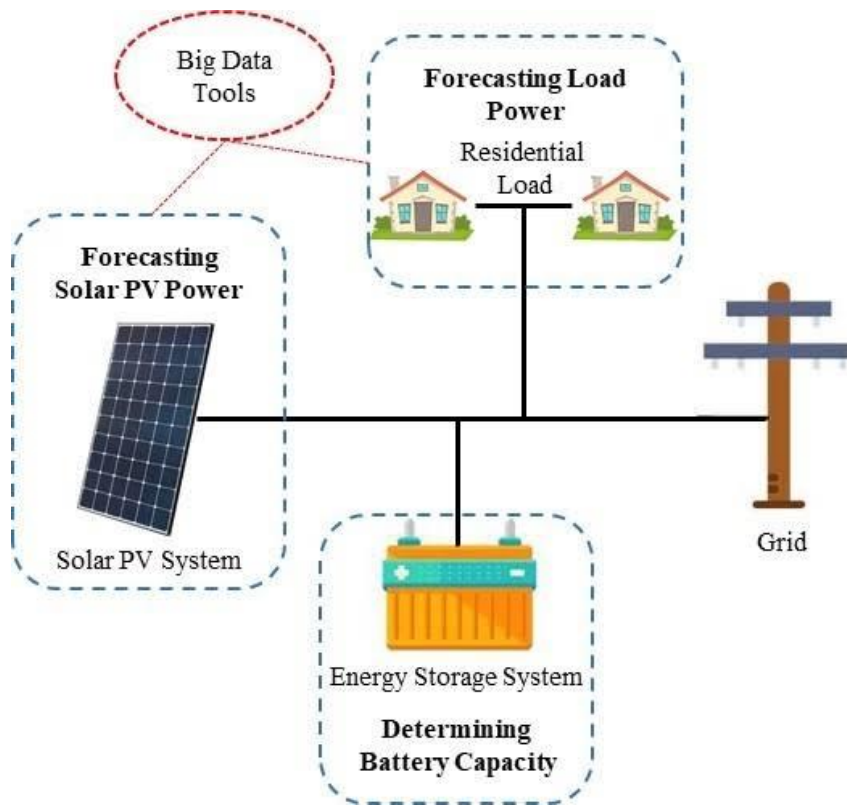


Project Design Phase-II Data Flow Diagram & User Stories

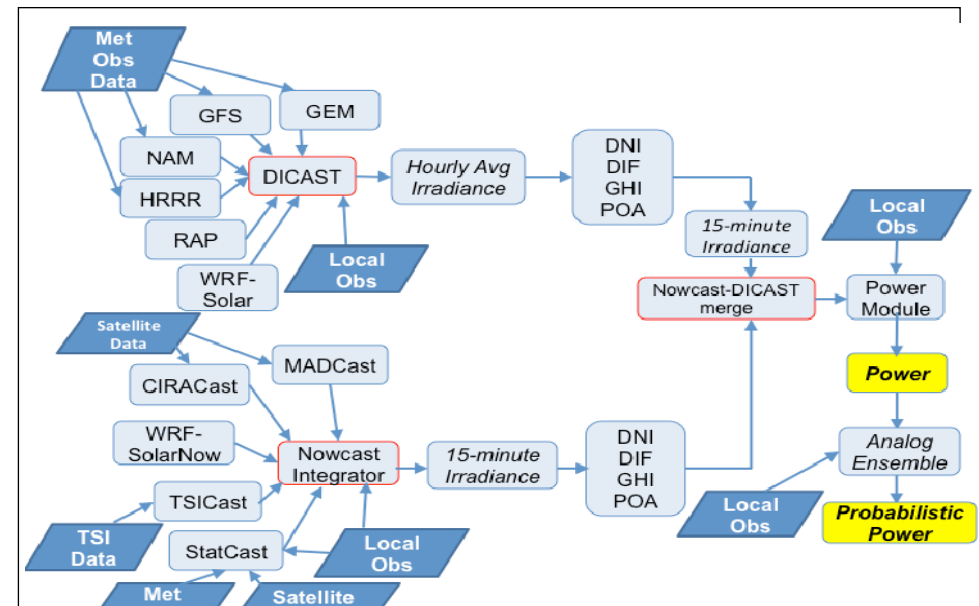
Date	20 September 2022
Team ID	Solar panel forecasting
Project Name	10307BD0157A0F3A21544766DE0FB47E
Maximum Marks	4 Marks

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)



User Stories

Solar Panel Forecasting User Stories

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User Story	Role	Goal
US01	Homeowner	To efficiently plan electricity usage based on next week's solar energy production forecast.
US02	Solar Panel Installer	To ensure optimal performance of customers' solar panel systems by receiving daily energy production forecasts.

User Story	Role	Goal
US03	Energy Grid Operator	To manage electricity distribution effectively by having accurate monthly solar energy forecasts.
US04	Researcher	To analyze historical solar panel data and forecast trends in solar energy production.
US05	Maintenance Technician	To perform proactive maintenance by receiving real-time alerts when solar panel energy production is expected to drop.

User Story	Role	Goal
US06	BCGovernment Official	To plan and optimize renewable energy initiatives in the region using aggregated solar panel forecasts.