

Project Design Phase-II
Data Flow Diagram & User Stories

Date	23 October 2023
Team ID	591312
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.

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
Customer	Registration	USN-1	As a new user interested in using the solar panel forecasting system, I want to be able to register for an account to access the system's features and personalized forecasts.	I can access my account.	High	Sprint-1
	Data Ingestion and Preprocessing	USN-2	As a user, I want to access historical solar panel performance data, so I can understand past trends and performance patterns.	I can access historical solar panel performance data	High	Sprint-1
		USN-3	As a user, I want to request solar panel forecasts based on current and future weather conditions, so I can plan for optimal energy usage.	I can specify the geographic location or solar panel installation site for the forecast	Medium	Sprint-2
	User Interface and Notifications	USN-4	As a user, I want to receive real-time updates on solar panel performance based on the latest weather data, so I can make immediate adjustments to energy consumption.	I can set up notification preferences to receive alerts via email or in-app notifications	High	Sprint-1
		USN-5	As a user, I want to view visual representations of solar panel forecasts, including graphs and charts, to better understand the data	I can select the timeframe and location	Medium	Sprint-1

	Dashboard		As a registered user, I want a personalized dashboard to view and manage my account information and track key metrics for my account	I can login to access my resources available in my account	High	Sprint-1
Customer (Web user)			As a homeowner, I want to access a solar panel forecasting web application to receive accurate predictions of my solar energy generation.	I can log in to the web application using my personal account		
Customer Care Executive			As a Customer Care Executive, I want to have access to relevant tools and information to assist customers with their inquiries and issues related to the solar panel forecasting system.	I can manage user Login,Dashboard, Notification system, e.t.c.		
Administrator			As an Administrator of the Solar Panel Forecasting System, I want a set of administrative tools to monitor, configure, and maintain the system for optimal performance and reliability.	I can access the User management, Access Control ,e.t.c.		