PROJECT DESIGN PHASE II
Data flow diagram and user stories

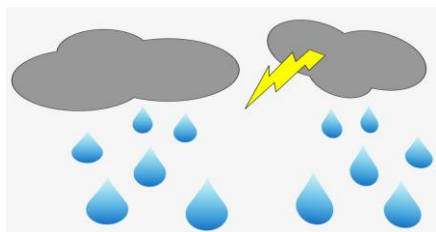| Date	17/10/2022
Team ID	
Project name	Exploratory Analysis of Rain Fall Data in India for Agriculture
Maximum marks	4

Data flow diagram:

DFD is the abbreviation for Data Flow Diagram

The flow of data of a system or a process is represented by DFD.

It also gives insight into the inputs and outputs of each entity and the process itself

DFD does not have control flow and no loop or decision rules are present

Specific operation depending on the type of data can be explained by a flowchart

Rainfall

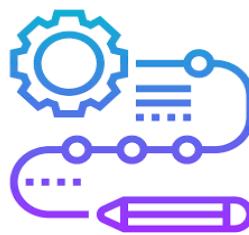Information of Rainfall data

Image

Uploading the image

Files

Results are obtained

Accuracy displayed

Commencement of the procedure

Image preprocessing

Uploading the files

User Type	Functional requirement	User story number	User story/task	Acceptance criteria	Priority	Release
User	Account creation	USN-1	User can connect to the application	User can access the account being created	High	Sprint-1
Input data	Adding data	USN-2	Input can be given to the system for its learning purposes	Data entered could be verified by the user	High	Sprint-1
Data validation	Checking accuracy	USN-3	Ability and accuracy of the model can be checked by the user	On logging in to account the capability could be checked	Medium	Sprint-2
Classification	Data classification	USN-4	Data can be viewed by the user	Verify the user data with real data	Medium	Sprint-2
App work	Work flow	USN-5	Working action of the application model could be viewed	Application working and responses to the	Medium	Sprint-2

Image classification	Checking for the rain	USN-6	With the help of trained and test data user can verify with application that the image is identified with the actual image	User can confirm that the data shows accrate results	Low	Sprint-3
User interaction	AI-powered chatbot	USN-7	User can interact with the automated chatbot to engage my time till the application processed the accurate result	Result could be viewed from the interaction from the chatbot	Low	Sprint-3
Agriculture assistance	Agriculture suggestion	USN-8	User can get agriculture advises	Enough assistance could be obtained	High	Sprint-3
Data extraction	Obtaining the data	USN-9	User can retrieve the result data from the application for data storage	Result could be downloaded in the form data to be shown to the agriculture teams	Medium	Sprint-4