Project Design Phase-II
Data Flow Diagram & User Stories
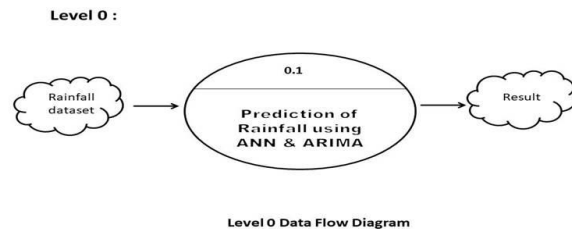
Date	14 October 2022
Team ID	PNT2022TMID32283
Project Name	Exploratory Analysis of Rainfall in India for Agriculture
Maximum Marks	4 Marks

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.
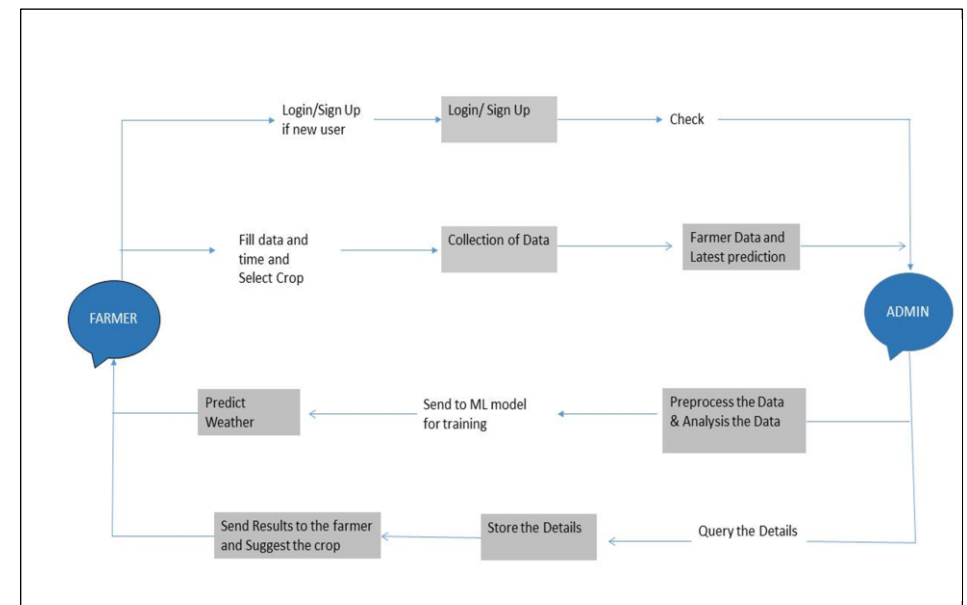
Example: DFD Level 0 (Industry Standard)

Example: (Simplified)

Flow:

Level 0 :

0.1

Prediction of Rainfall using ANN & ARIMA

Rainfall dataset

Result

Level 0 Data Flow Diagram

- User enter the region and month into the Web application to predict rainfall rate to yield crop
- The rainfall dataset as a input is process through the prediction models like ANN (Artificial Neural Network)and ARIMA(Autoregressive Integrated Moving Average) for preprocessing
- Finally the predicted rainfall rate in MM and crops are suggested as result

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirements (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Web user)	Check Weather	USN-I	As a customer, I can check the rainfall by giving the region and month as a input	I can view the predicted rainfall status by entering information	High	Sprint-2
	Suggested crop	USN-2	As a customer, with the predicted rainfall I can review the suggested crops for higher productivity	I can view the suggested crops with the predicted rainfall	High	Sprnt-2