Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID50307
Project Name	Project – Estimate the crop yield using data analytics
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: (Simplified)

Example: DFD Level 0

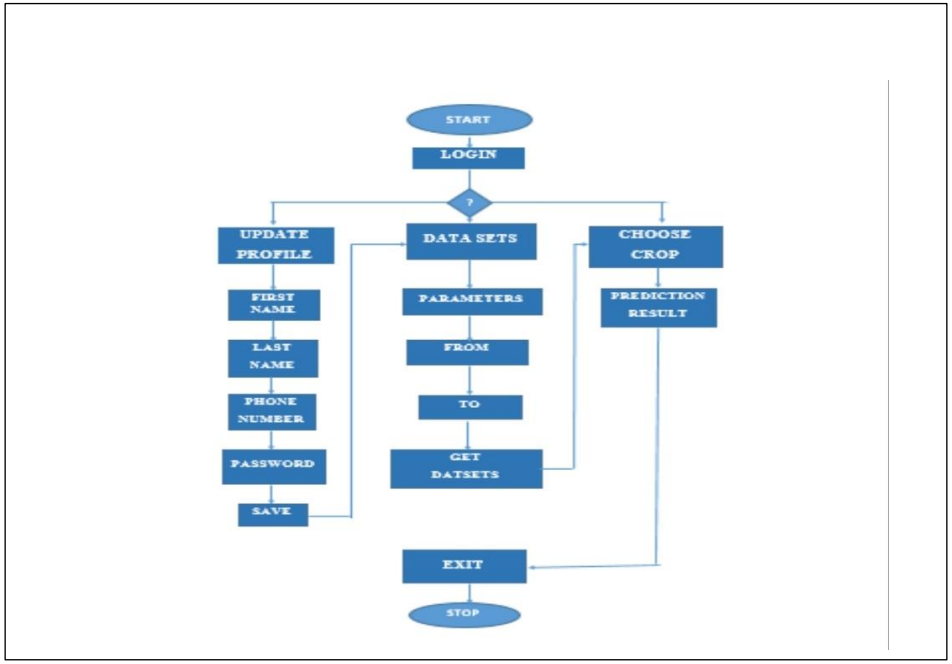
(1) User (farmer) can login into project. User can also update their profile using First name, last name, phone number, password.

(2) User can enter the available dataset(rainfall, area, production etc).

(3) The project analyse the dataset and show the prediction in graphical Format.

(4) Then the user can use these prediction to increase the crop yield and reduce the crop loss.

(5) Then user can exit.



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 (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard	USN-6	Creating an interactive dashboard from the datasets			
Customer (Web user)						
Customer Care Executive						

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Administrator			In data pre-processing module data is cleaned and only necessary attributes are taken for further analysis.		Medium	
			Prediction is result of Apriori and Naïve bayes which predicts the crop yield in quintals.		High	
			Final representation represents the graphical result of K-means and Naïve bayes which is helpful for analysis of crops in specified rainfall.		High	