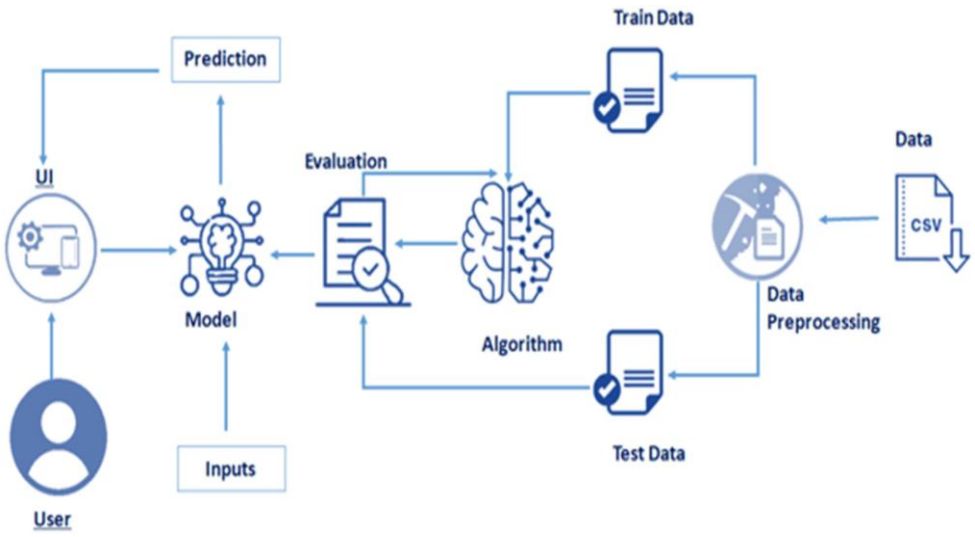
Project Design Phase-II
Data Flow Diagram & User Stories

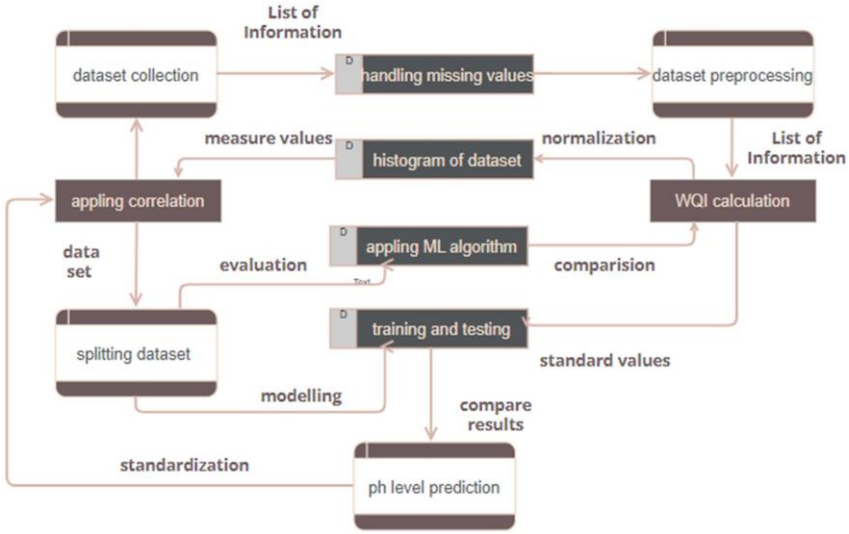
Date	21 October 2022
Team ID	PNT2022TMID32824
Project Name	Project - Efficient Water quality analysis and Prediction using Machine learning
Maximum Marks	4 Marks

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)





User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Developer	Data Preparation	USN-1	Collecting water dataset and pre-processing it	Handle missing values, outliers, null values and so on	High	Sprint-1
	Model Building	USN-2	Create a ML model to predict water quality	Fitting data in perfect model	Medium	Sprint-1
	Model Evaluation	USN-3	Calculate the performance, error rate and complexity of ML model	Above 80% performance	Medium	Sprint-1
	Model Deployment	USN-5	Using flask and deploy model finally in IBM cloud using IBM storage and Watson Studio	Working in a proper manner	Medium	Sprint-2
Customer	Registration	USN-5	As a user, I can register for the application by entering my email, password, and confirming my password	I can access my account /dashboard	Medium	Sprint-3
	Confirmation	USN-6	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	Low	Sprint-3
	Login	USN-7	As a user, I can log into the application by entering email & password	I am accessing my account	Medium	Sprint-3
	Dashboard	USN-8	As a user, I can use the application by entering water data	I am accessing my dashboard	High	Sprint-4