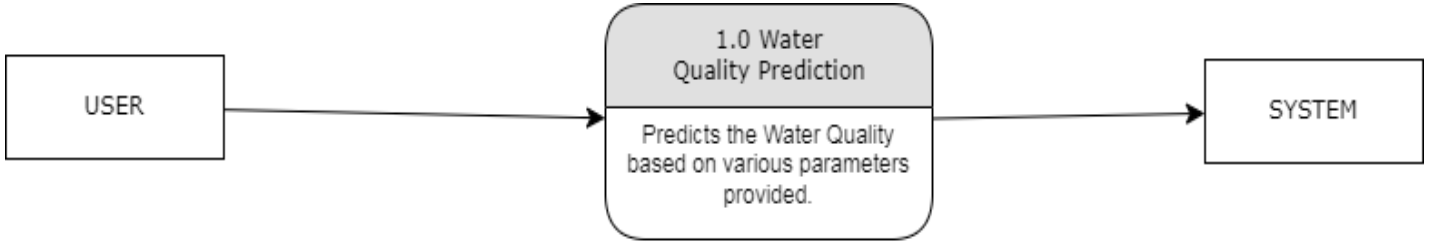
PROJECT DESIGN PHASE-II
DATA FLOW DIAGRAM &USER STORIES

Date	16 October 2022
Team ID	PNT2022TMID00111
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning.
Maximum Marks	4 Marks

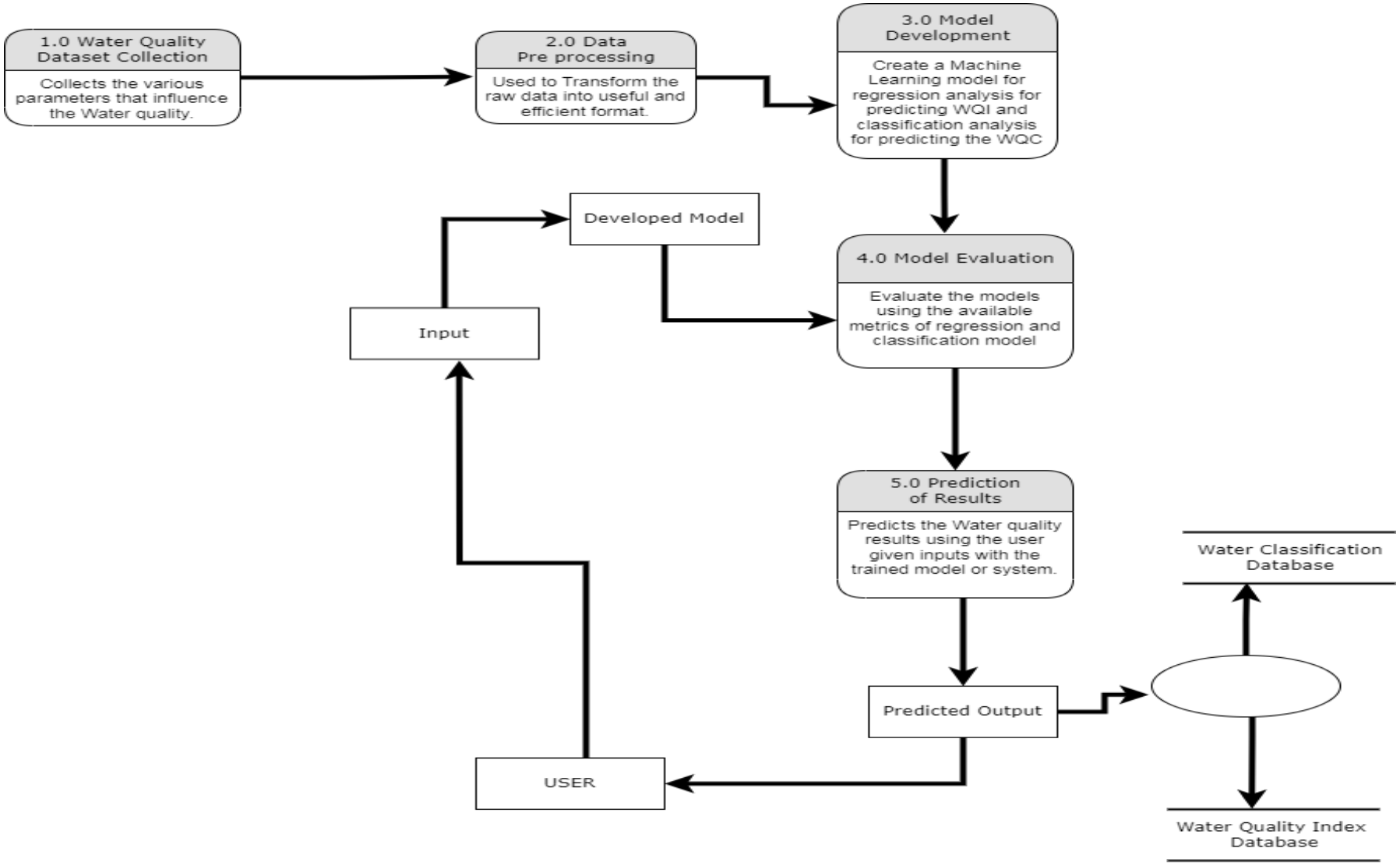
DATA FLOW DIAGRAMS:

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.

DFD DIAGRAMS:



DFD LEVEL 0 DIAGRAM



DFD LEVEL 1 DIAGRAM

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	Sign up	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.	Very High	Level-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.	Very High	Level-1
	Sign in	USN-3	As a user, I can log into the application by entering the registered Email ID & password.	If the registered information matches the given information, accept the login and allow the user to access the functionalities provided by the system.	Very High	Level-1
	Dashboard		There are some options available in the dashboard from which user have to select the option to access the particular functionality. If you want test the water quality of some samples you have to select “Test sample” option. If you want view the results of already	I can access my dashboard.	High	Level-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
			predicted results click “Previous Results” option. If you want the purification technique to be recommended for your water sample, click “Check Purification Technique” option.			
Water Quality Testing Agencies, Private & Public Laboratories, Restaurants and Hotels, People who consume the Water to check the Quality.			Give the access to display to view the testing page so as to give the water quality parametric values to calculate the Water Quality Index. Give the access to view the Predicted Water Quality Index (WQI) value.	It provides an opportunity for the users to test their water samples.	High	Level-2
			Give access to display to view the purification recommended page so as to view the purification technique for their respective water sample tested.	I can access the recommended purification method to improve the quality of water, I consume.	High	Level-2