

Project Design Phase-II

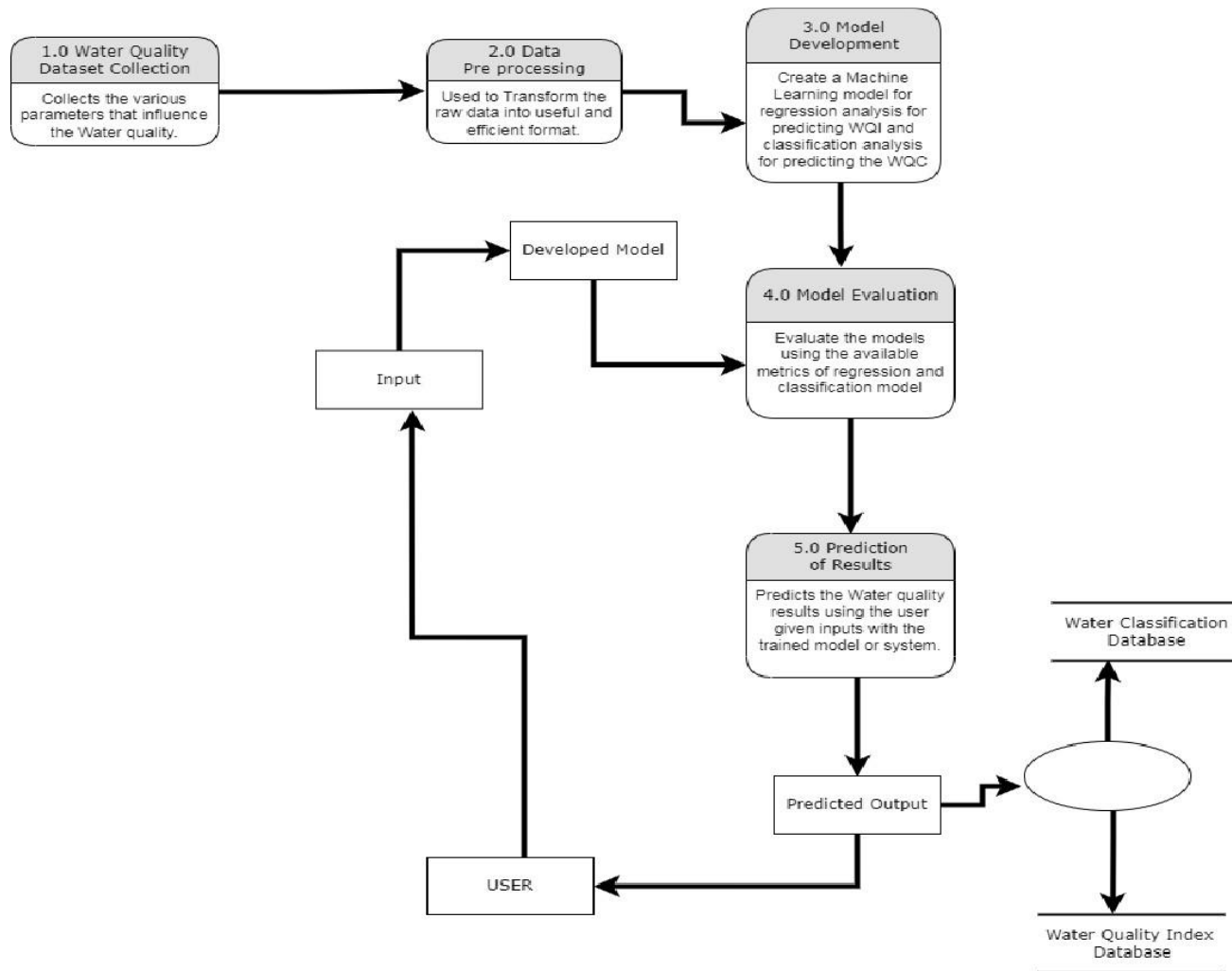
Data Flow Diagram & User Stories

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|---------------|---|
| Date | 12 October 2022 |
| Team ID | PNT2022TMID25646 |
| Project Name | Efficient water quality 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 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 | 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 |
| | Login | 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. | High | Sprint-1 |
| | Dashboard | | <p>If you want test the water quality of some samples you have to select “Test sample” option.</p> <p>If you want view the results of already</p> | I can access my dashboard. | High | Sprint 2 |

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|---|-------------------------------|-------------------|--|---|----------|----------|
| | | | <p>predicted results click “Previous Results” option.</p> <p>If you want the purification technique to be recommended for your water sample, click “Check Purification Technique” option.</p> | | | |
| Water Quality Testing Agencies, Private & Public Laboratories, Restaurants and Hotels, People who consume the Water to check the Quality. | | | <p>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.</p> <p>Give the access to view the Predicted Water Quality Index (WQI) value.</p> | It provides an opportunity for the users to test their water samples. | High | Sprint 2 |