**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID07524 |
| Project Name | Project – Real Time River Water Quality Monitoring and Control System |
| 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.

No

Yes

User will get SMS

Cloud database

Drive the details to the authorities

The status of the water module goes to the IBM cloud and web UI

Check Threshold

Values send to Arduino Board

Getting the real time sensed values from sensor

**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 | I can register through the  mail | Medium | Sprint-1 |
|  | Login | USN-5 | As a user, I can log into the application by entering email & password | I can receive login  credentials | High | Sprint-1 |
|  | Interface | USN-6 | As a user, the interface should be user-friendly manner | I can able to access  easily | Medium | Sprint-1 |
| Customer (Web user) | Dashboard | WUSN-1 | As a web user, I can access the specific info  (pH value, temp, humidity, quality) | I can able to know the  quality of the water. | High | Sprint-1 |
| Customer Care Executive | View manner | CCE-1 | As a customer care, I can view data in visual  representation manner(graph) | I can easily understand  by visuals | High | Sprint-1 |
|  | Taste | CCE-2 | As a customer care, I can able to view the  quality(salty) of the water | I can easily know whether it is salty or not | High | Sprint-1 |
|  | Color visibility | CCE-3 | As a customer care, I can able predict the water color | I can easily know the  condition by color | High | Sprint-1 |
| Administrator | Risk tolerant | ADMIN-1 | An administrator who Is handling the system  should update and take care of the application | Admin should monitor the  records properly. | High | Sprint-2 |