**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| --- | --- |
| Date | 03 October 2022 |
| Team ID | PNT2022TMID41871 |
| Project Name | Project – Real time river water quality monitoring and control system |

START

Get hardware sensor Arduino for pH,temperature,turbidity

hH

IBM cloud Node RED

Cloud data storage

Getting real time data information from the around board

Checking threshold

yes

User need to register in the mobile application through number and OTP

The sensor data from IBM cloud is taken and an alert message is sent to the user registered mobile number

The alert message is sended to the administrator to be verified and rectified by customer executive

STOP

**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 registered mobile number | I can access my account / dashboard | High | Sprint-1 |
|  |  | USN-2 | As a user, I will receive OTP once I have registered for the application | I can receive confirmation OTP & click confirm link | 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 mobile number and OTP received | I can access easily | High | Sprint-1 |
|  |  | USN-6 | As a user my mobile application should work without errors about 90% of time | I can get reliable information | Medium | Sprint -1 |
| Customer (Web user) | Dashboard | USN-7 | As a user I need information simplified and easily understandable | I can understand info better | High | Sprint -1 |
|  |  | USN-8 | As a user l like to edibility quality of water | I can use know about water quality | Medium | Sprint -1 |
| Customer Care Executive |  | USN-9 | As a user I prefer to have executives who can help out in problem shooting | I can solutions easily | High | Sprint -2 |
| Administrator | Risk tollerance | USN-5 | As an administrator who can handle system maintainance | Should monitor the records properly | High | Sprint -1 |