Project Design Phase-II

1. Sensing the water Parameter with sensors and Collecting Water parameter Data using Python.
2. Made Several Embedded Connection with Ardiuno Uno Board and also have some MQTT Service Connection.
3. Make IBM Cloud Connectivity and Also with IBM Watson Service.
4. Made Connection with RED-Service Node
5. Finally End Users can monitor the information through Mobile/Web Platform

Data Flow Diagram & User Stories

|  |  |
| --- | --- |
| Date | 19 September 2022 |
| Team ID | PNT2022TMID06453 |

# 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.

# DATA FLOW: DATA FLOW DIAGRAM:

**User Stories:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Acceptance criteria** | **Priority** | **Release** |
| Customer | Registration | USN-1 | As a user, I | I can access | High | Sprint-1 |
| (Mobile |  |  | can register | my account / |  |  |
| user/remote |  |  | for the | dashboard |  |  |
| user) |  |  | application |  |  |  |
|  |  |  | by entering |  |  |  |
|  |  |  | my email, |  |  |  |
|  |  |  | password, |  |  |  |
|  |  |  | and |  |  |  |
|  |  |  | confirming |  |  |  |
|  |  |  | my |  |  |  |
|  |  |  | password. |  |  |  |
|  | Notification | USN-2 | As a user, I | I can receive | High | Sprint-1 |
|  |  | will receive | confirmation |  |  |
|  |  | confirmation | email & click |  |  |
|  |  | email once I | confirm |  |  |
|  |  | have |  |  |  |
|  |  | registered for |  |  |  |
|  |  | the |  |  |  |
|  |  | application |  |  |  |
|  | Signup | USN-3 | As a user, I | I can register | Low | Sprint-2 |
| through third |  | can register | & access the |  |  |
| parties |  | for the | dashboard |  |  |
|  |  | application | with |  |  |
|  |  | through | Facebook |  |  |
|  |  | Facebook | Login |  |  |
|  |  | USN-4 | As a user, I | I can register | Medium | Sprint-1 |
|  | can register | and access |  |  |
|  | for the | the dashboard |  |  |
|  | application | with Google |  |  |
|  | through | credentials |  |  |
|  | Gmail |  |  |  |
|  | Login | USN-5 | As a user, I | I can register | High | Sprint-1 |
|  |  | can log into | and access |  |  |
|  |  | the | the dashboard |  |  |
|  |  | application | through the |  |  |
|  |  | by entering | application |  |  |
|  |  | email & | cred |  |  |
|  |  | password |  |  |  |
|  | **Dashboard** |  |  |  |  |  |
| Customer |  | USN-6 | As I am a | Each and | High | Each sprint |
| (Web user) |  | customer I | every process |  |  |
|  |  | need a proper | was under |  |  |
|  |  | support and | firewall |  |  |
|  |  | service | /security |  |  |
|  |  |  | protocol |  |  |
| Customer Care Executive |  | USN-7 | 24/7 service can provided by company |  |  | Sprint 3 |
| Administrator |  | USB-8 | Who will | All the access | High | Each sprint |
|  |  | have the | was with |  |  |
|  |  | entire access | encrypted |  |  |
|  |  | of this |  |  |  |
|  |  | project |  |  |  |