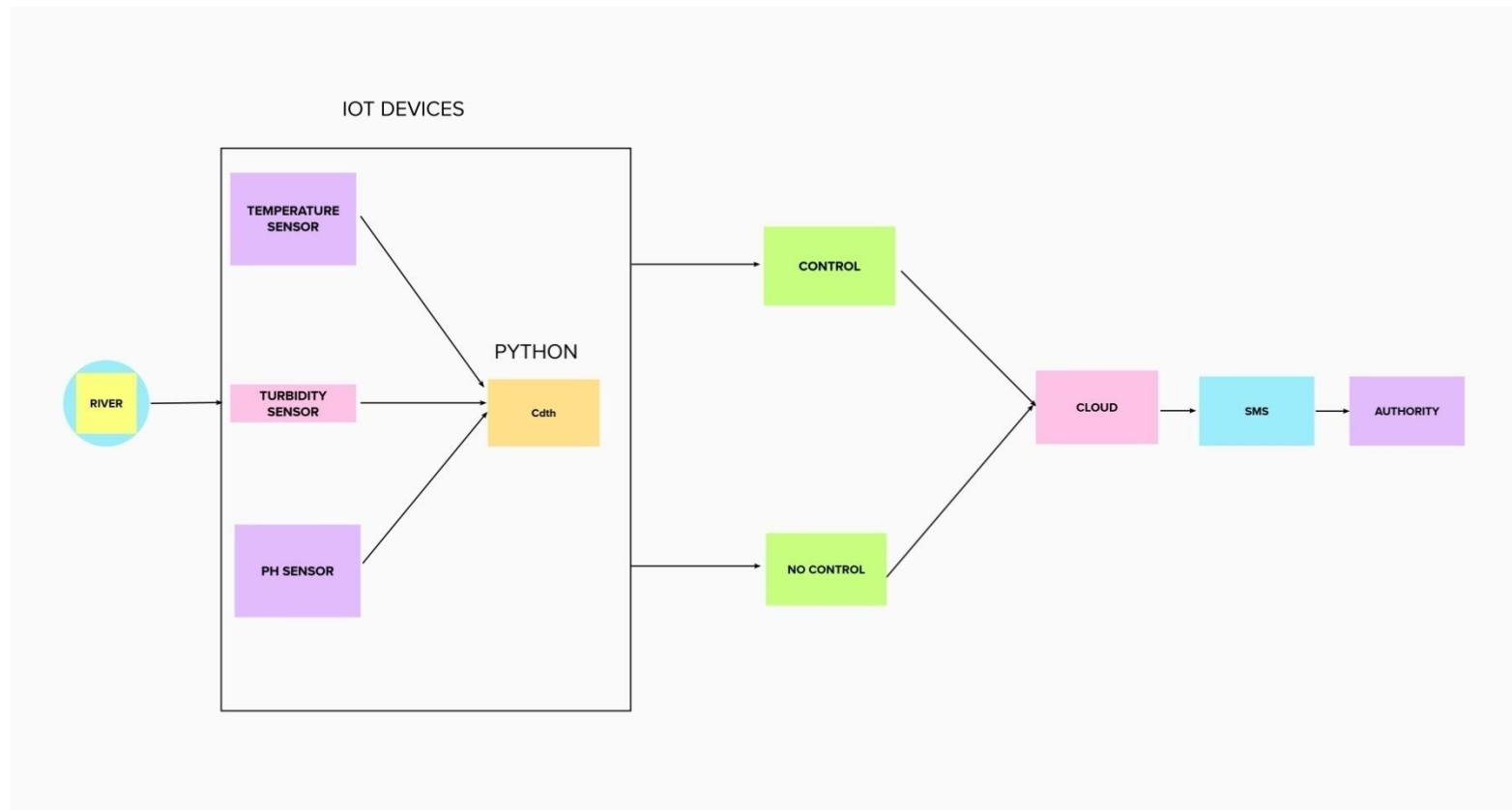


Project Design Phase-II Data Flow Diagram & User Stories

| | |
|---------------|--|
| Date | 13 October 2022 |
| Team ID | PNT2022TMID46174 |
| Project Name | Project – REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM |
| Maximum Marks | 4 Marks |

Data Flow Diagrams:



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 |
|------------------|--|-------------------|--|--|----------|---------|
| Circuit designer | Designing the circuit | USN-1 | As a user, I can design the circuit by using open source softwares. | I can get the exact design for my project. | | |
| | | USN-2 | As a user, I can design the circuit by using free web app like Tinkercad. | I can make several attempts to get the right design. | | |
| Programmer | Create a program suitable for the circuit | USN-3 | As a user, I can create programs in the user friendly language. | I can create a simple program for the circuit | | |
| | | USN-4 | As a user, I can compile and execute the programs. | I can get the program with accurate outputs. | | |
| Engineer | Connects the output to the cloud | USN-5 | As a user, I can connect the output values to the cloud services by using NODE RED. | I can make the datas to receive in cloud. | | |
| | Store the output values | USN-6 | As a user,I can make the data's store in IBM cloudant database. | I can retrieve the data anywhere,anytime. | | |
| | Connects the cloud data with the authorities communication device. | USN-7 | As a user,I can produce connection to the authorities mobile phones so that they can receive the alerts. | I can make the authorities informed about the water's quality. | | |
| | Alerts has to be sent to the authorities | USN-8 | As a user,I can make use of platforms such as Fast SMS to send the timely updates to the authorities. | I can make the authorities to get accurate values and alerts | | |
| Authorities | Checks the water quality alerts | USN-9 | As a user ,I check the quality values of the water that is sent to me . | I can make sure that the people in my zone gets quality water. | | |
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