**Project Planning Phase**

**Milestone and Activity List**

| **Date** | 25 October 2022 |
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| **Team ID** | PNT2022TMID50829 |
| **Project Name** | REAL -TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM |

| **TITLE** | **DESCRIPTION** | **DATE** |
| --- | --- | --- |
| **Setting up application environment** | Developing a flask project , creation of IBM  cloud , installation of IBM cloud CLI , docker CLI installation and creation of account in sendgrid. | 22 aug 2022 |
| **Implementing web application** | It includes creation of UI to interact with application and creation of IBM DB2 and connect wiyh python. | 23 aug 2022 |
| **Integrating sendgrid**  **Services** | In this phase , only need to create the sendgrid integration with python code. | Inprogress |
| **Deployment of app in**  **IBM cloud** | It contains containerize the app,upload image to IBM container registry and deploy in kubernetes cluster | Inprogress. |

| **Literature survey** | gather/collect the relevant information on project use case. | 29 aug 2022 |
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| **Empathy map** | It contain the canvas of our project and it includes the pain and gain | 2 sep 2022 |
| **Ideation** | organizing the  brainstorming session and prioritize the top 3 ideas based on the feasibility & importance | 2 sep 2022 |
| **Proposed solution** | It consist of problem to be solved ,novelty, social impact,business model and scalablity. | 8 sep 2022 |
| **Problem solution fit** | It consist of customer segments and customer constraints. | 11 sep 2022 |
| **Solution architecture** | . It contains functional requirements and user stories | 13 sep 2022 |
| **Customer journey** | user interactions & experiences with the  application (entry to exit)  . | 19 sep 2022 |

| **Functional requirement** | It includes to collect the fuctional requirements. | 22 sep 2022 |
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| **Data flow diagram** | Visual representation of the information flow. | 23 sep 2022 |
| **Technology architecture** | It contains components and technology and application characteristics. | 3 oct 2022 |
| **Planning phase** | It contains milestone activities and sprint delivery. | 18 oct 2022 |
| **Development phase** | Develop and submit the developed code | inprogress |