**Project Planning Phase**

**Milestones and Activity List**

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| **Date** | **20 October 2022** |
| **Team ID** | **PNT2022TMID52665** |
| **Project Name** | **Project – Efficient Water Quality**   |  | | --- | | **Analysis and Prediction using Machine Learning** | |

**Milestones and Activity List:**

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| **S.NO** | **MILESTONES** | **ACTIVITIES** | **TEAM** |
| 1. | Data Collection | Downloading the dataset | Deepthy Shivani A  Divya K |
| 2. | Data Pre-processing | Importing the Libraries | Subiksha Devi MS |
| 3. | Data Pre-processing | Reading the dataset | Soundarya M |
| 4. | Data Pre-processing | Analyse the data | Subiksha Devi MS |
| 5. | Data Pre-processing | Handling the missing values | Deepthy Shivani A  Divya K  Soundarya M |
| 6. | Data Pre-processing | Water Quality Index (WQI) calculation | Soundarya M  Deepthy Shivani A |
| 7. | Data Pre-processing | Data Visualisation | Divya K |
| 8. | Data Pre-processing | Splitting the data into dependent and independent columns. | Deepthy Shivani A  Subiksha Devi MS |
| 9. | Data Pre-processing | Splitting the data into training and testing | Divya K  Soundarya M |
| 10. | Model Evaluation | Model Evaluation | Deepthy Shivani A  Divya K  Soundarya M  Subiksha Devi MS |
| 11. | Model Evaluation | Save the model | Subiksha Devi MS |

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| 12. | Application Building | Build the HTML code | Deepthy Shivani A  Divya K  Subiksha Devi MS  Soundarya M |
| 13. | Application Building | Build the Python code | Deepthy Shivani A  Divya K  Subiksha Devi MS  Soundarya M |
| 14. | Train the model on IBM | Run Flask App | Deepthy Shivani A  Divya K  Subiksha Devi MS  Soundarya M |
| 15. | Train the model on IBM | Register for IBM cloud | Deepthy Shivani A  Divya K  Subiksha Devi MS  Soundarya M |
| 16. | Train the model on IBM | Train the model on IBM | Deepthy Shivani A  Divya K  Subiksha Devi MS  Soundarya M |
| 17. | Train the model on IBM | Integrate flask | Deepthy Shivani A  Divya K  Subiksha Devi MS  Soundarya M |