

PROJECT PLANNING PHASE
MILESTONES AND ACTIVITY LIST

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| DATE | 22 OCTOBER 2022 |
| TEAM ID | PNT2022TMID51670 |
| PROJECT TITLE | EFFICIENT WATER QUALITY ANALYSIS AND PREDICTION USING MACHINE LEARNING |

Milestones and Activity List:

| S.NO | MILESTONES | ACTIVITIES | TEAM |
|------|--------------------|--|--|
| 1. | DATA COLLECTION | Download the Dataset | Shalima.M.S. Godslin Sharmi.R Sherlin Femina B |
| 2. | DATA PREPROCESSING | Importing the Libraries | Shalima.M.S. Abisha J Berlin Jose J |
| 3. | DATA PREPROCESSING | Reading the Dataset | Shalima.M.S. Abisha J Berlin Jose J |
| 4. | DATA PREPROCESSING | Analyze the Data | Shalima.M.S. Godslin Sharmi.R Sherlin Femina B |
| 5. | DATA PREPROCESSING | Handling the Missing Values | Shalima.M.S. Abisha J Sherlin Femina B |
| 6. | DATA PREPROCESSING | Water Quality Index (WQI) Calculation | Shalima.M.S. Berlin Jose J |
| 7. | DATA PREPROCESSING | Data Visualisation | Shalima.M.S. Abisha J Godslin Sharmi.R |
| 8. | DATA PREPROCESSING | Splitting Dependent and Independent Columns. | Shalima.M.S. Sherlin Femina B |
| 9. | DATA PREPROCESSING | Splitting the Data into Training and Testing | Shalima.M.S. Berlin Jose J |

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| 10. | MODEL EVALUATION | Model Evaluation | Shalima.M.S. Abisha J Godslin Sharmi.R |
| 11. | MODEL EVALUATION | Save the Model | Shalima.M.S. Sherlin Femina B Berlin Jose J |
| 12. | APPLICATION BUILDING | Build the HTML code. | Shalima.M.S. Godslin Sharmi.R Berlin Jose J |
| 13. | APPLICATION BUILDING | Build the Python code | Shalima.M.S. Sherlin Femina B Abisha J |
| 14. | APPLICATION BUILDING | Run Flask App | Shalima.M.S. Abisha J |
| 15. | TRAIN THE MODEL ON IBM | Register For IBM Cloud | Shalima.M.S. Sherlin Femina B Abisha J Godslin Sharmi.R Berlin Jose J |
| 16. | TRAIN THE MODEL ON IBM | Train the ML Model on IBM | Shalima.M.S. Godslin Sharmi.R |
| 17. | TRAIN THE MODEL ON IBM | Integrate Flask with Scoring Endpoint. | Shalima.M.S. Sherlin Femina B |