PROJECT PLANNNG PHASE MILESTONES AND ACTIVITY LIST

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| DATE | 22 OCTOBER 2022 |
| TEAM ID | PNT2022TMID38102 |
| PROJECT TITLE | 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 | Download the Dataset | M A Prakruthi |
| 2. | DATA  PREPROCESSING | Importing the Libraries | D.Shalini  S.Snega |
| 3. | DATA  PREPROCESSING | Reading the Dataset | M A Prakruthi |
| 4. | DATA  PREPROCESSING | Analyze the Data | E S Kaviya  S Snega |
| 5. | DATA  PREPROCESSING | Handling the Missing  Values | D Shalini  Shajitha Barveen  M A Prakruthi  E S Kaviya  S Snega |
| 6. | DATA  PREPROCESSING | Water Quality Index (WQI)  Calculation |
| 7. | DATA  PREPROCESSING | Data Visualisation |
| 8. | DATA  PREPROCESSING | Splitting Dependent and  Independent Columns. |
| 9. | DATA  PREPROCESSING | Splitting the Data into  Training and Testing |
| 10. | MODEL EVALUATION | Model Evaluation | M A Prakruthi |
| 11. | MODEL EVALUATION | Save the Model | M A Prakruthi |
| 12. | APPLICATION BUILDING | Build the HTML code. | M A Prakruthi |

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| 13. | APPLICATION BUILDING | Build the Python code | M A Prakruthi  E S Kaviya |
| 14. | APPLICATION BUILDING | Run Flask App | M A Prakruthi  D Shalini |
| 15. | TRAIN THE MODEL ON IBM | Register For IBM Cloud | M A Prakruthi  Shajitha Barveen  D Shalini |
| 16. | TRAIN THE MODEL ON IBM | Train the ML Model on IBM | M A Prakruthi  S Snega |
| 17. | TRAIN THE MODEL ON IBM | Integrate Flask with Scoring Endpoint. | M A Prakruthi  Shajitha Barveen  D Shalini  S Snega  E S Kaviya |