Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

|  |  |
| --- | --- |
| Date | 29 October 2022 |
| Team ID | PNT2022TMID16005 |
| Project Name | Efficient Water Quality Analysis & Prediction using Machine Learning |
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Data Preparation | USN-1 | Collecting water dataset and  pre-processing it | 10 | High | S Shankar Pirajin  T Surya |
| Sprint-1 | Model Building | USN-2 | Create a ML model to predict water  quality | 5 | Medium | S Shankar Pirajin  T Surya  S R Vishal  M G Yaswanth |
| Sprint-1 | Model Evaluation | USN-3 | Calculate the performance, error rate and complexity of ML model and evaluate the dataset based on the parameter that the dataset consists. | 5 | Medium |
| Sprint-2 | Model Deployment | USN-4 | As a user, I need to deploy the model and need to find the results. | 20 | Medium |
| Sprint-3 | Web page (Form) | USN-5 | As a user, I can use the application by enter the water dataset in form to analyze or to predict the results. | 20 | Medium | S Shankar Pirajin  T Surya  S R Vishal  M G Yaswanth |
| Sprint-4 | Dashboard | USN-6 | As a user, I can predict the water quality by click the submit button and the application will show the water is efficient  for use or not. | 20 | High | S R Vishal  M G Yaswanth |

**Project Tracker & Velocity:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story**  **Points** | **Duration** | **Sprint Start Date** | **Sprint End Date** | **Story Points**  **Completed** | **Sprint Release Date** |
| Sprint-1 | 20 | 6 Days | 23 Oct 2022 | 28 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 7 Days | 29 Oct 2022 | 04 Nov 2022 | 20 | 05 Nov 2022 |
| Sprint-3 | 20 | 7 Days | 05 Nov 2022 | 11 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 8 Days | 12 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |

**Velocity:**

Average Velocity = 80 / 20 = 4 Story Points per Day