**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 19 October 2022 |
| Team ID | PNT2022TMID28709 |
| 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 collection | 1 | First of all data is collected according to the  prerequisites | 2 | High | Sarojini.M,  Murthima |
| Sprint-1 | Data preprocessing | 2 | Then the data need to be preprocessed in order to remove the fault datas | 1 | low | Sarojini.M,Murthima |
| Sprint-2 | Model building | 3 | Then the appropriate model is built. | 2 | Medium | Anjani |
| Sprint-3 | Coding | 4 | Then according to modelling we need to perform coding | 2 | High | Sanjana , Anjani |
| Sprint-3 | Application Building | 5 | Application is built | 1 | High | Sarojini .M  Sanjana |
| Sprint-4 | Testing | 6 | Finally testing is done to check whether the functionality is working fine. | 2 | High | Anjani,  Murthima |
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Project Tracker, Velocity & Burndown Chart: (4 Marks)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
| Sprint-1 | 20 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 2nd nov 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Velocity:



Burndown Chart:

# 100%

60%

40%

20 /OO

Burndown Chart

0 O/O

# Sprint-1

Sprint-2

Total Story Poi nts

Sprint-3

Duration

Sprint-4

Sprint Start Date Sprint End Date (Planned)