**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 18 October 2023 |
| Team ID | NM2023TMID05031 |
| Project Name | Solar Panel Forecasting |
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

Use the below template to create product backlog and sprint schedule

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint-1 | **Installation Process** | USN-1 | The system must support the installation of solar panels on residential and commercial properties. | 2 | High | 2 |
| Sprint-1 | **Energy Production Monitoring** | USN-2 | The system must collect and display real-time data on solar panel energy production.  Users should be able to view historical data to track energy production trends | 1 | High | 1 |
| Sprint-2 | **Maintenance Tracking** | USN-3 | Users must be able to schedule and track routine maintenance tasks for the solar panel system. | 2 | Low | 2 |
| Sprint-1 | **Integration with Utility Grid** | USN-4 | The system must support the integration of solar energy with the utility grid | 2 | Medium | 2 |
| Sprint-1 | **User Authentication and Access Control** | USN-5 | The system must have user authentication mechanisms to secure access to user-specific data | 1 | High | 1 |

**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 | 4 Oct 2023 | 10 Oct 2023 | 20 | 29 Oct 2022 |
| Sprint-1 | 18 | 5 Days | 12 Oct 2023 | 16 Oct 2023 | 19 | 29 Oct 2022 |
| Sprint-2 | 13 | 3 Days | 17Oct 2023 | 19 Oct 2023 | 17 | 29 Oct 2022 |
| Sprint-1 | 19 | 6 Days | 24 Oct 2023 | 29 Oct 2023 | 19 | 29 Oct 2022 |