**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID05942 |
| Project Name | Project – Smart waste management system for metropolitan cities |
| Maximum Marks | 8 Marks |

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

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Registration | USN-1 | As a admin, I will share the application login website only to the authorities. | 20 | High | Jeevitha D  Ahila A  Dhanya G  Dharsana K |
| Sprint-1 | Login | USN-2 | As a authorities, I can login to the application by entering email & password provided by the admin | 10 | High | Jeevitha D  Ahila A  Dhanya G  Dharsana K |
| Sprint-2 | Dashboard | USN-3 | As a municipality officer, I can overview all the necessary details available in the application | 10 | Medium | Jeevitha D  Ahila A  Dhanya G  Dharsana K |
| Sprint-3 | Work space | USN-4 | As a municipality officer and truck driver, I can get notifications/ alert messages from the people once the garbage is full. | 20 | High | Jeevitha D  Ahila A  Dhanya G  Dharsana K |
| Sprint-4 | Exit | USN-5 | As a municipality officer , I can exit the application once after the task is over. | 10 | Medium | Jeevitha D  Ahila A  Dhanya G  Dharsana K |

**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 | 29 Oct 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:**

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)



**Burndown Chart:**

The Burndown chart for 10 days is given below:

|  |  |  |
| --- | --- | --- |
| **DAY** | **ESTIMATED WORK** | **ACTUAL WORK** |
| 1 | 160 | 152 |
| 2 | 144 | 136 |
| 3 | 128 | 132 |
| 4 | 112 | 120 |
| 5 | 96 | 88 |
| 6 | 80 | 80 |
| 7 | 64 | 65 |
| 8 | 48 | 40 |
| 9 | 32 | 40 |
| 10 | 16 | 10 |
| 11 | 0 | 0 |