# Project Planning Phase

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

|  |  |
| --- | --- |
| Date | 02 November 2022 |
| Team ID | PNT2022TMID17711 |
| Project Name | Smart Waste Management System for Metropolitan cities |
| 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 | Registration | USN-1 | As a user, I can register for the application  by entering my email,password,and confirming my password. | 10 | High | Ravishankar |
| Sprint-1 | Login | USN-2 | As a user, I will receive confirmation email once I have registered for the application. | 10 | High | Navaneethakrishnan |
| Sprint-2 | Dashboard | USN-4 | As a user, I’ll control the waste level by monitoring them via real time web portal. | 10 | High | Mothiprasath |
| Sprint-2 | Notification | USN-4 | As a user, once the bin gets filled, I’ll notify trash truck with location of bin with bin ID. | 10 | High | Pradeeprajan |
| Sprint-3 | Dashboard | USN-5 | As a user , I’II gather all the  waste from the garbage bin and load it onto  a truck.. | 10 | Medium | Navaneethakrishnan |
| Sprint-3 | Dashboard | USN-6 | As a user, I can specify the location to be monitored and to reach the landfills in  optimized routes to save time . | 10 | Medium | Ravishankar |
| Sprint-4 | Dashboard | USN-7 | As a user, I'll make sure everything is proceeding as planned and  without any problems. | 20 | High | Mothiprasath |

## 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)



AV = 20/6 = 3.33

Day 1

Day 2

Day 3

Day 4

Day 5

Day 6

Day 7

Day 8

Day 9

Day 10

Day 11

Day 12

Day 13

Day 14

Day 15

Day 16

Day 17

Day 18

Day 19

Day 20

Day 21

Day 22

Day 23

Day 24

# Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

450

400

350

300

250

200

Actual effort

Estimated effort

150

100

50

0