Project Planning Phase

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

|  |  |
| --- | --- |
| Date | 01 November 2022 |
| Team ID | PNT2022TMID50747 |
| 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 | Software | USN-1 | Design the circuit which is to be integrated within the garbage bin using sensors. | 10 | High | Rajalakshmi S  Kiruba Esther K  Jothika S  Pavithra S |
| Sprint-1 | Cloud | USN-2 | Cloud web server is created which connects the bin and the authority who is responsible for the disposal of waste from its bin | 10 | High | Rajalakshmi S  Kiruba Esther K  Jothika S  Pavithra S |
| Sprint-2 | Technology | USN-3 | Connect cloud server and bins. | 5 | High | Rajalakshmi S  Kiruba Esther K  Jothika S  Pavithra S |
| Sprint-2 | Cloud Server | USN-4 | Upload the details of truck driver and location of bin using GPS | 5 | Medium | Rajalakshmi S  Kiruba Esther K  Jothika S  Pavithra S |

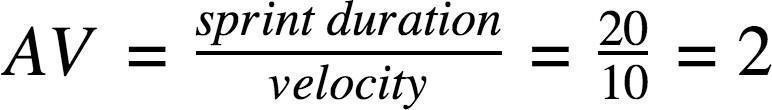
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-2 | Sensor | USN-5 | Detect the level of garbage using sensor and stores it in the server for specific interval of time. | 10 | High | Rajalakshmi S  Kiruba Esther K  Jothika S  Pavithra S |
| Sprint-3 | Python, GPS | USN-6 | Write the python code for intimating to the authority about alerting message regarding collection of garbage and where to collect | 10 | High | Rajalakshmi S  Kiruba Esther K  Jothika S  Pavithra S |
| Sprint-3 | Cloud | USN-7 | Authority should allocate which truck driver should collect the waste at particular area | 10 | Medium | Rajalakshmi S  Kiruba Esther K  Jothika S  Pavithra S |
| Sprint-4 | Communicating Medium | USN-8 | Truck driver receives the message from the authority and goes to collect the garbage | 10 | Medium | Rajalakshmi S  Kiruba Esther K  Jothika S  Pavithra S |
| Sprint-4 | Communicating Medium | USN-9 | After collecting the garbage, truck driver intimates that the garbage has collected. | 10 | Low | Rajalakshmi S  Kiruba Esther K  Jothika S  Pavithra S |

# 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 | 01 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:**

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:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile [software development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.