**Project Planning Phase**

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

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| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMIDxxxxxx |
| Project Name | Project - xxx |
| 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 | Prerequisites | USN-1 | IBM Cloud Services | 10 | Medium | S.Rubesh  S.Haritha |
| Sprint-1 | Prerequisites | USN-2 | Software | 10 | Medium | S.Abirami  D.Tamizhselvan |
| Sprint-2 | Create And Cofigure IBM Cloud Services | USN-3 | Create IBM Watson IoT Platform And Device | 7 | High | S.Rubesh |
| Sprint-2 | Create And Cofigure IBM Cloud Services | USN-4 | Create Node-RED Service | 7 | High | S.Haritha  S.Abirami |
| Sprint-2 | Create And Cofigure IBM Cloud Services | USN-5 | Create A Database In Cloudant DB | 6 | High | D.Tamizhselvan |
| Sprint-3 | Develop A Python Script | USN-6 | Develop A Python Script | 10 | High | S.Rubesh  S.Haritha  S.Abirami  D.Tamizhselvan |
| Sprint-3 | Develop A Python Script | USN-7 | Publish Data To The IBM Cloud | 10 | Medium | S.Rubesh  S.Haritha  S.Abirami  D.Tamizhselvan |
| Sprint-4 | Develop A Python Script | USN-8 | Python Code | 7 | High | S.Rubesh  S.Haritha  S.Abirami  D.Tamizhselvan |
| Sprint-4 | Develop A Web Application Using Node-RED Service | USN-9 | Create Node Red Flow To Get Data From  Device | 7 | Low | S.Rubesh  S.Haritha |
| Sprint-4 | Develop A Web Application Using Node-RED Service | USN-10 | UI Nodes Installation | 6 | Medium | S.Abirami  D.Tamizhselvan |

**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 |
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**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)



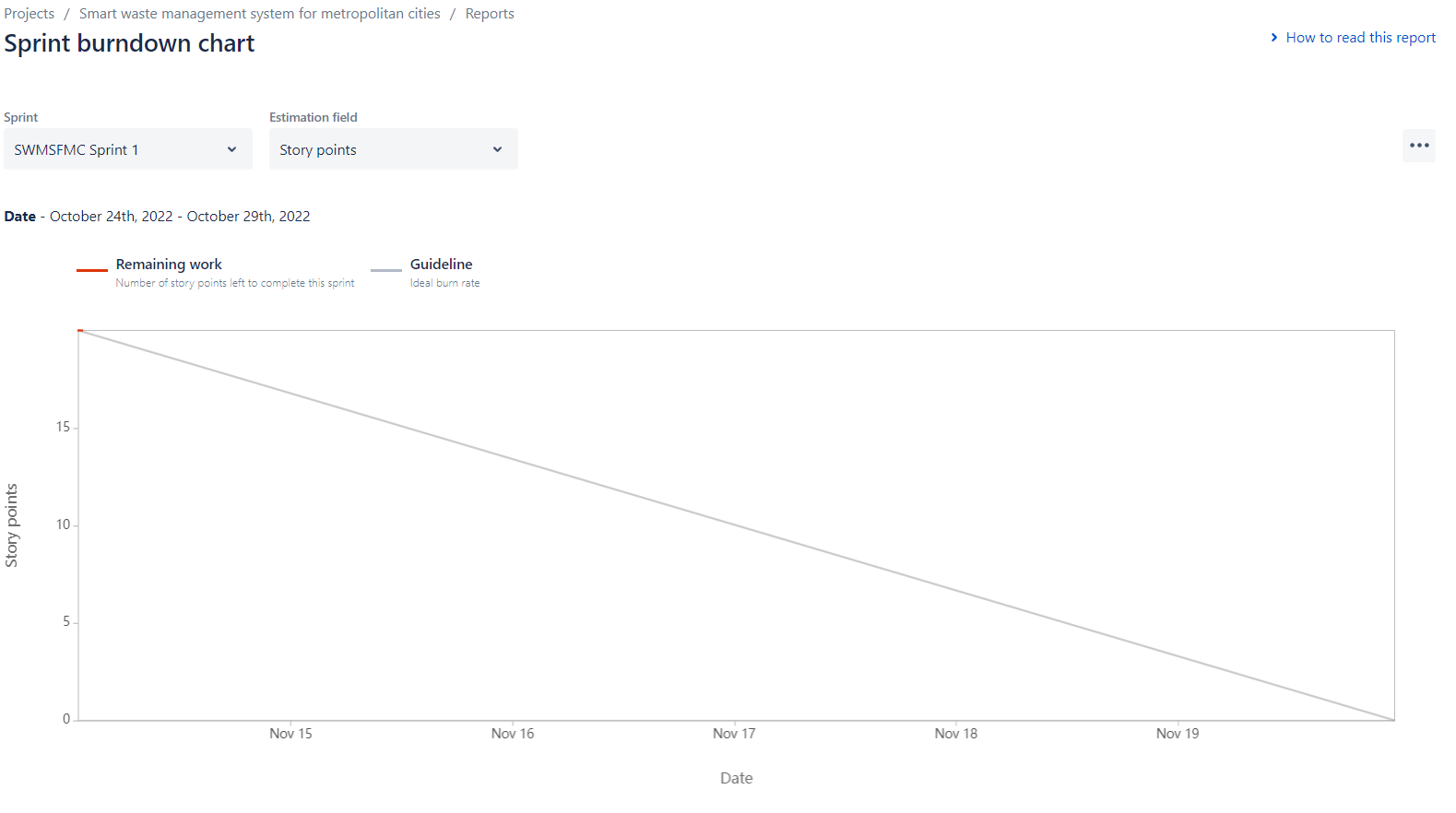
**AV=Sprint duration/Velocity=20/6=3.33**

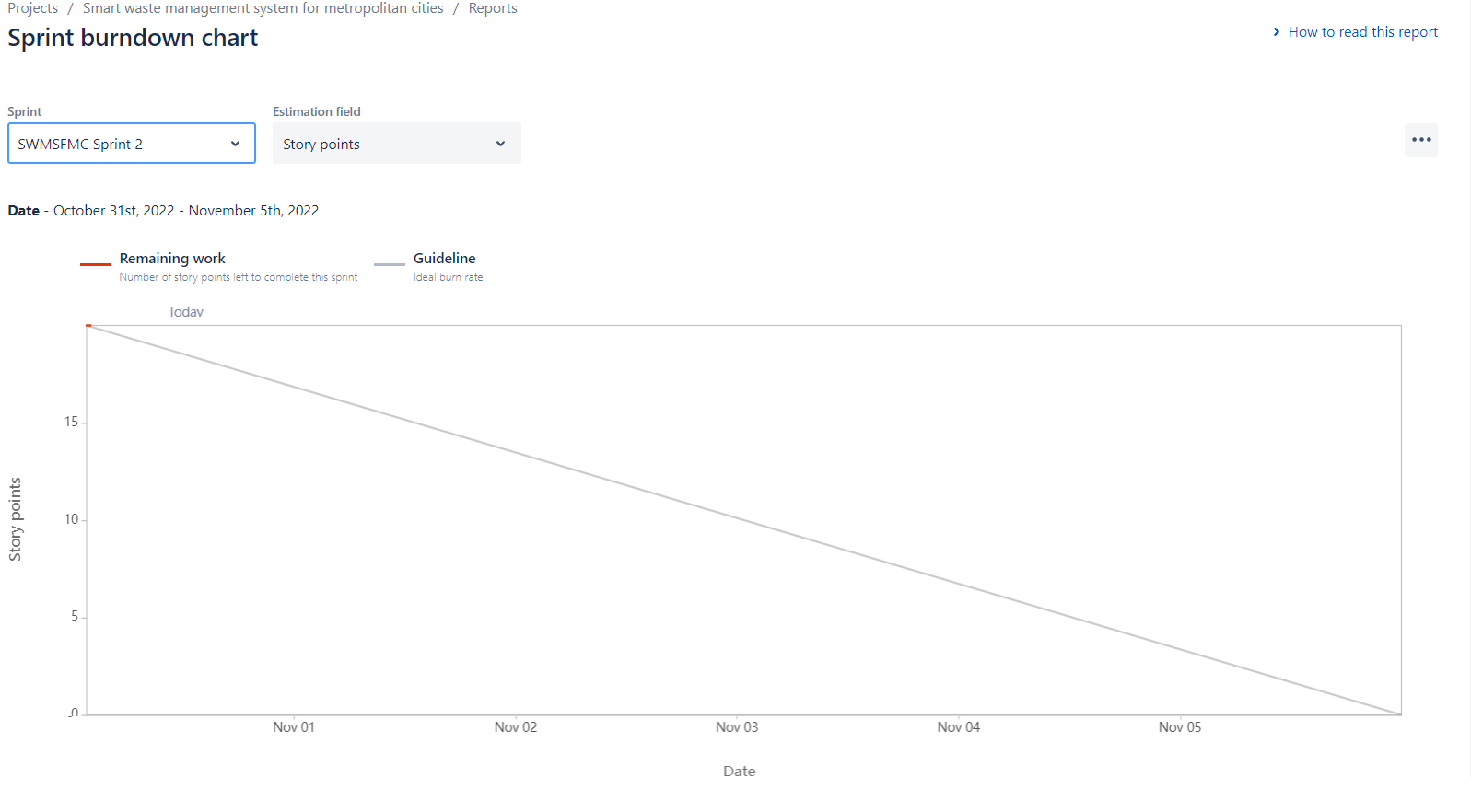
**Burndown Chart:**

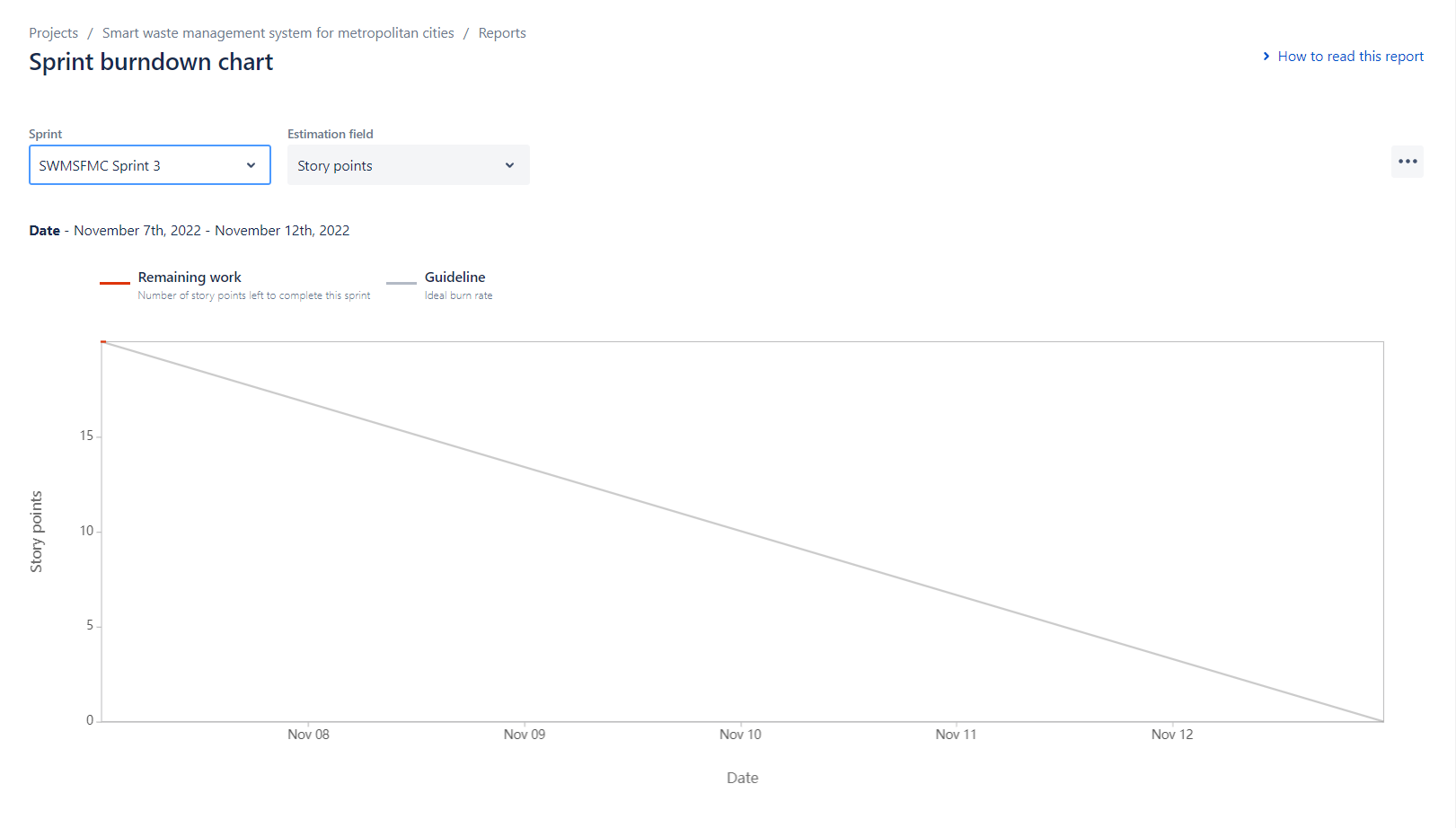
A burn down chart is a graphical representation of work left to do versus time. It is often used in agile[software development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However,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

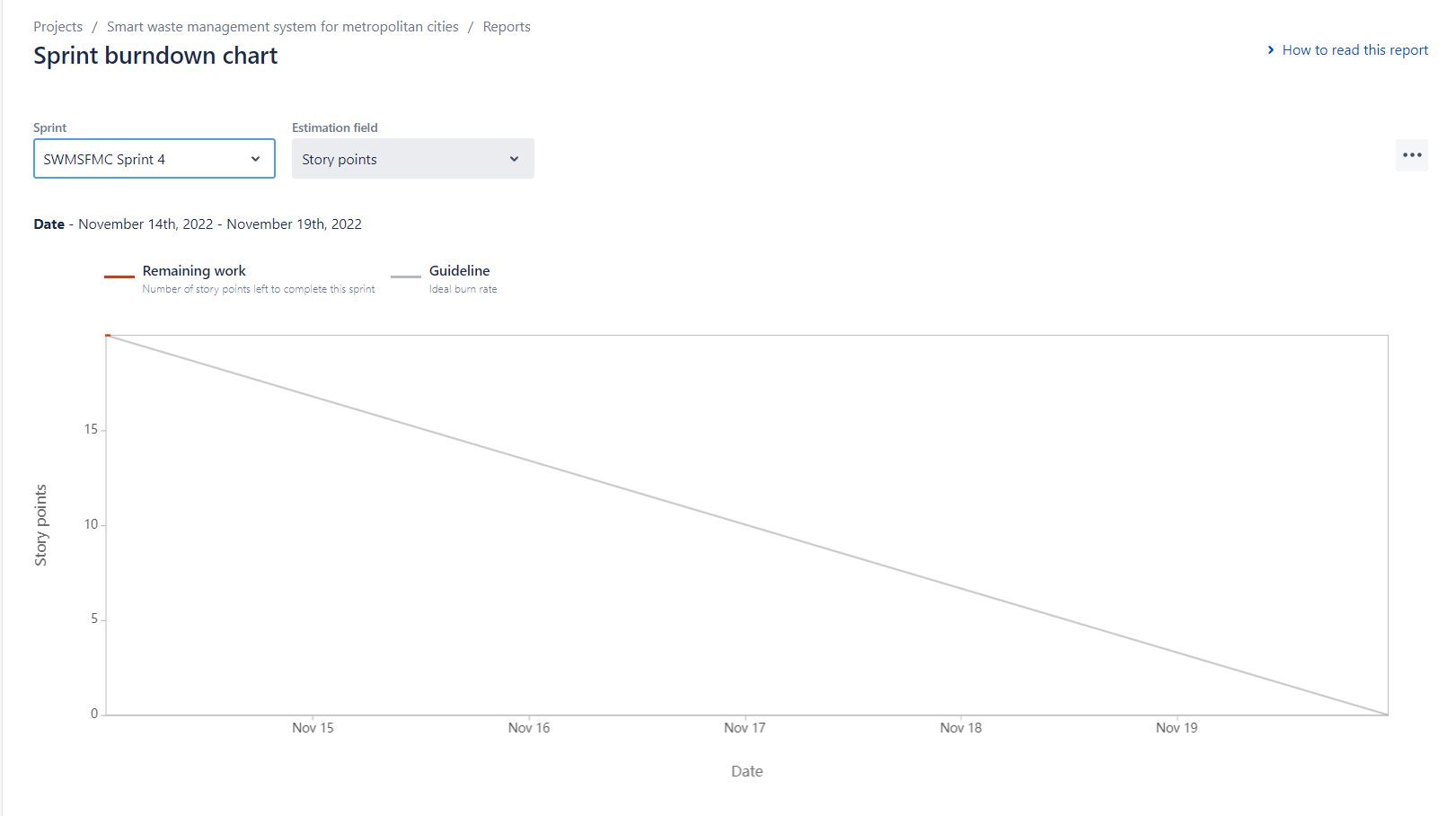
**This Chart is taken before development)**

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