Project Planning Phase

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

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| --- | --- |
| Team ID | PNT2022TMID39239 |
| Project Name | Project – Estimate the crop yield using Data Analytics |
| 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 user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Arun kumar  Rajasekar |
| Sprint-1 |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | Rajesh  Surya |
| Sprint-2 |  | USN-3 | As a user, I can register for the application through Google | 2 | Low | Arun kumar  Rajesh |
| Sprint-1 |  | USN-4 | As a user, I can register for the application through Gmail | 2 | Low | Arun kumar  Rajasekar |
| Sprint-1 | Login | USN-5 | As a user, I can log into the application by entering email & password | 1 | High | Surya  Rajesh |
| Sprint- 3 | Dashboard | USN-6 | As a user, I can freely use my dashboard and explore the features | 2 | High | Arun kumar  Surya |
| Sprint- 2 |  | USN-7 | As a user, I can use the credentials to access the resources of my application | 2 | High | Arun kumar  Rajesh |
| Sprint- 3 |  | USN-8 | Performance of Data manipulations on the application | 1 | High | Rajesh  Rajasekar |
| Sprint- 3 | Visualizations | USN-9 | I can create dashboards with particular datasets | 2 | High | Surya  Arun kumar |
| Sprint- 4 |  | USN-10 | Predictive analysis can be done | 1 | High | Rajesh  Surya |
| Sprint- 3 |  | USN-11 | I can create stories with particular datasets | 2 | High | Rajasekar  Rajesh |
| Sprint- 4 |  | USN-12 | I can deliver and export reports according to the dashboards and stories created | 2 | High | Arun kumar  Rajasekar |

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:

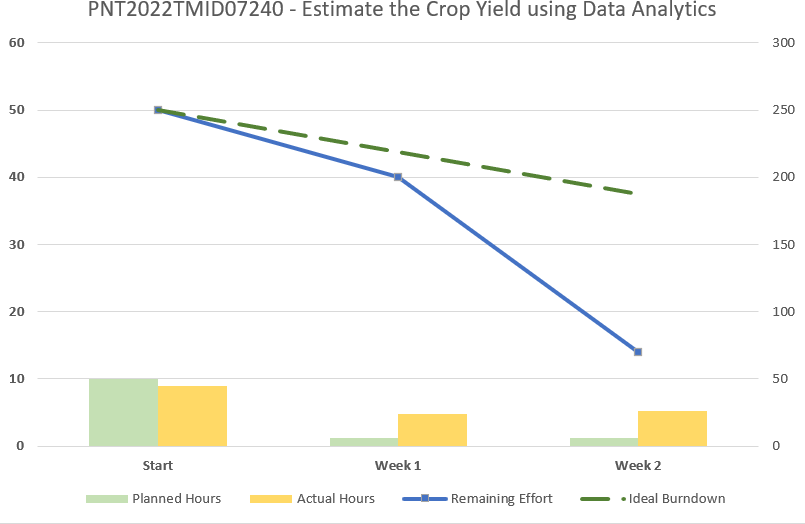
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)



AV = Sprint Duration/Velocity = 20/6 = 3

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.



<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/> <https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management> <https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software> <https://www.atlassian.com/agile/tutorials/epics> <https://www.atlassian.com/agile/tutorials/sprints> <https://www.atlassian.com/agile/project-management/estimation> <https://www.atlassian.com/agile/tutorials/burndown-charts>