**Project Planning Phase**

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)**

|  |  |
| --- | --- |
| Date | 15 February 2025 |
| Team ID | LTVIP2025TMID41777 |
| Project Name | TrafficTelligence: Advanced Traffic Volume Estimation With Machine Learning |
| Maximum Marks | 5 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 | Real-time traffic volume prediction | USN-1 | Enable traffic authorities to receive real-time traffic volume predictions | 2 | High | Team Member A |
| Sprint-1 | Infrastructure planning support | USN-2 | Provide future traffic trends to assist in city infrastructure planning | 1 | High | Team Member B |
| Sprint-2 | Personalized traffic navigation | USN-3 | Suggest optimal routes to commuters based on traffic predictions | 2 | Low | Team Member C |
| Sprint-1 | Machine Learning Model Development | USN-4 | Preprocess data, train and test model for traffic prediction | 2 | Medium | Team Member D |
| Sprint-1 | Web App Development using Flask | USN-5 | Build a web interface to input data and display predictions using Flask | 1 | High | Team Member E |

**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 | 6 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 6 | 29 Oct 2022 |
| Sprint-2 | 2 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 2 | 05 Nov 2022 |
| Sprint-3 | 0 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 0 | - |
| Sprint-4 | 0 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 0 | - |

**Velocity:**

To calculate the **Average Velocity (AV)** per day for your **TrafficTelligence** project, we will use the following formula:

**AV = sprint duration (in days) / sprint story points**

**Example:**

AV = 6 / 6 = 1 (day per story point)

**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.visual-paradigm.com/scrum/scrum-burndown-chart/)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)

**Reference:**

[**https://www.atlassian.com/agile/project-management**](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/how-to-do-scrum-with-jira-software)

[**https://www.atlassian.com/agile/tutorials/epics**](https://www.atlassian.com/agile/tutorials/epics)

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[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)