**Project Planning Phase**

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

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Data Collection | -USN 1 | As a developer, I want to gather historical traffic and weather data | 2 | High | High |
| Sprint-1 | Data Collection | -USN 2 | As a developer, I want to load the data into the system | 1 | High | High |
| Sprint-1 | Data Preparation | -USN 3 | As a developer, I want to handle missing values in the dataset | 3 | High | High |
| Sprint-1 | Data Preparation | -USN 4 | As a developer, I want to create necessary fields for ML model input | 3 | High | High |
| Sprint-1 | Data Preparation | -USN 5 | As a developer, I want to resolve data inconsistencies for accuracy | 3 | Medium | Medium |
| Sprint-2 | Data Visualization | -USN 6 | As a developer, I want to visualize data using bar charts | 2 | Medium | Medium |
| Sprint-2 | Data Visualization | -USN 7 | As a developer, I want to visualize data using pie charts | 2 | Medium | Medium |
| Sprint-2 | Data Visualization | -USN 8 | As a developer, I want to visualize data using line charts | 2 | Medium | Medium |
| Sprint-2 | Data Visualization | -USN 9 | As a developer, I want to visualize data on maps | 4 | High | High |
| Sprint-2 | Dashboard | -USN 10 | As a developer, I want to develop an interactive dashboard | 5 | High | High |
| Sprint-2 | Model Integration | -USN 11 | As a developer, I want to integrate ML model and show predictions in Flask app | 5 | High | High |

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID30092 |
| 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High |  |
| Sprint-1 |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High |  |
| Sprint-2 |  | USN-3 | As a user, I can register for the application through Facebook | 2 | Low |  |
| Sprint-1 |  | USN-4 | As a user, I can register for the application through Gmail | 2 | Medium |  |
| Sprint-1 | Login | USN-5 | As a user, I can log into the application by entering email & password | 1 | High |  |
|  | Dashboard |  |  |  |  |  |
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**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 |  |  |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  |  |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 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)



**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>