**Project Planning Phase**

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

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| --- | --- |
| Date | 15 February 2025 |
| Team ID | LTVIP2025TMID47299 |
| Project Name | Visualization Tool for electric vehicle Charge and range analysis |
| 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 | Data Upload and Preprocessing | USN-1 | As a user, I can upload raw EV charging and trip data (CSV, Excel) to the tool | 3 | High | Kalimuthu Murthy |
| Sprint-1 |  | USN-2 | As a user, I can clean and preprocess the data for missing or inconsistent entries | 3 | High | Gnana Prakash Gudimetla |
| Sprint-2 | Interactive Visualization | USN-3 | As a user, I can view a dashboard that shows average charge levels, trip lengths, and usage trends | 5 | High | Beere Vishnu Sai |
| Sprint-2 |  | USN-4 | As a user, I can filter visual data by time period, location, and vehicle model | 3 | Medium | B Saipriya |
| Sprint-3 | Map-Based Charge Station Analytics | USN-5 | As a user, I can see a map showing charging station availability and frequency of use | 4 | High | Nandhini Thambisetty |
| Sprint-3 |  | USN-6 | As a user, I can analyze charging behavior by geographic area and suggest optimal locations | 5 | Medium |  |
| Sprint-4 | Performance and Export Options | USN-7 | As a user, I can export the visualizations and reports in PDF/PNG/CSV formats | 2 | Medium |  |
| Sprint-4 |  | USN-8 | As a user, I can view system performance metrics and data refresh logs | 2 | Low |  |

**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 | 5 Days | 01 july 2022 | 05 july 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 8 | 5 Days | 07 july 2022 | 11 july 2022 |  |  |
| Sprint-3 | 9 | 5 Days | 14 july 2022 | 18 july 2022 |  |  |
| Sprint-4 | 4 | 5 Days | 21 july 2022 | 25 july 2022 |  |  |
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**Velocity:**

If the team completes 8 story points on average per sprint, then:

Average Velocity (AV) = 8 story points / 5 days = 1.6 story points/day

**Burndown Chart:**

**The burndown chart will track remaining story points per day over the 4 sprints.**

**Example tools for plotting:**

**Excel with line graphs**

**Jira Sprint Reports**

**Visual Paradigm**

**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>**