**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 15 February 2025 |
| Team ID | LTVIP2025TMID48259 |
| Project Name | plugging into the future: an exploration of electricity consumption patterns using tableau |
| Maximum Marks | 5 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 | Data Collection & Cleaning | USN-1 | As a data analyst, I want to clean and preprocess the household electricity consumption dataset for Tableau use. | 3 | High | Sudharsan Naidu Davala |
| Sprint-1 |  | USN-2 | As a user, I want to create standardized units (kWh) and formats across demographic and regional consumption fields. | 2 | High | Sudharsan Naidu Davala |
| Sprint-2 | Dashboard Development | USN-3 | As a user, I want an interactive dashboard to visualize monthly and yearly consumption trends across regions. | 3 | High | Sudharsan Naidu Davala |
| Sprint-2 |  | USN-4 | As a user, I want a heatmap showing high and low electricity usage across Indian states or districts. | 2 | Medium | Sudharsan Naidu Davala |
| Sprint-3 | Demographics Visualization | USN-5 | As a policymaker, I want to filter electricity usage by income level, family size, and urban/rural division. | 3 | High | Sudharsan Naidu Davala |
| Sprint-3 | Social Media Analysis | USN-6 | As an analyst, I want to study peak usage hours and seasonal variations in electricity consumption. | 2 | Medium | Sudharsan Naidu Davala |
| Sprint-4 | Story Design | USN-7 | As a viewer, I want a Tableau Story that integrates trend analysis, demographics, and geographic usage patterns. | 2 | Medium | Sudharsan Naidu Davala |

**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 | 8 | 6 Days | 19 MAY 2025 | 24 MAY 2025 | 8 | 24 MAY 2025 |
| Sprint-2 | 20 | 6 Days | 26 MAY 2025 | 31 MAY 2025 | 20 | 31 MAY 2025 |
| Sprint-3 | 20 | 6 Days | 05 JUNE 2025 | 10 JUNE 2025 | 20 | 10 JUNE 2025 |
| Sprint-4 | 20 | 6 Days | 12 JUNE 2025 | 17 JUNE 2025 | 20 | 17 JUNE 2025 |

**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)



**Total story points=8+16 = 24**

**Number of sprints = 2**

**Velocity = 24/2 = 12 Story points per Sprint**