**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 15 February 2025 |
| Team ID | LTVIP2025TMID48394 |
| Project Name | "Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau" |
| Maximum Marks | 5 Marks |

Here's the "Project Planning Template" filled out for your "Plugging into the Future: An Exploration of Electricity Consumption Patterns Using Tableau" project, including a detailed Product Backlog, Sprint Schedule, and Velocity calculation.

Project Planning Phase

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

Date: 15 February 2025

Team ID: [LTVIP2025TMID48394]

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 Acquisition & Preprocessing** | USN-1 | As a data analyst, I can collect the Consumption.csv dataset. | 2 | High | K.Divya Sree] |
| **Sprint-1** | **Data Acquisition & Preprocessing** | USN-2 | As a data engineer, I can store the consumption data in a database. | 1 | High | S.K.Faiza |
| **Sprint-1** | **Data Acquisition & Preprocessing** | USN-3 | As a data engineer, I can perform SQL operations for data cleaning and preprocessing. | 3 | High | L.Gayathri |
| **Sprint-1** | **Data Acquisition & Preprocessing** | USN-4 | As a data analyst, I can connect the preprocessed database to Tableau. | 2 | High | K.Divya Sree |
| **Sprint-1** | **Core Tableau Visualizations** | USN-5 | As a data analyst, I can create visualizations for 2019 & 2020 state consumption and total consumption (Activity 1.1). | 3 | High | K.Divya Sree |
| **Sprint-1** | **Core Tableau Visualizations** | USN-6 | As a data analyst, I can create visualizations for usage by region and identify Top N/Bottom N states (Activity 1.1). | 3 | High | K.Divya Sree |
| **Sprint-2** | **Core Tableau Visualizations** | USN-7 | As a data analyst, I can visualize 2019 and 2020 month-wise consumption (Activity 1.2). | 3 | Medium | K.Divya Sree |
| **Sprint-2** | **Core Tableau Visualizations** | USN-8 | As a data analyst, I can visualize usage before and after lockdown periods (Activity 1.2). | 5 | High | K.Divya  Sree |
| **Sprint-2** | **Core Tableau Visualizations** | USN-9 | As a data analyst, I can create region-wise, quarterly, and yearly usage visualizations (Activity 1.3). | 5 | High | K.Divya Sree |
| **Sprint-2** | **Core Tableau Visualizations** | USN-10 | As a data analyst, I can visualize metro city state usage. | 3 | Medium | K.Divya Sree |
| **Sprint-2** | **Dashboard & Story Development** | USN-11 | As a data analyst, I can design an interactive dashboard for overall consumption trends and KPIs. | 5 | High | K.Divya Sree |
| **Sprint-2** | **Dashboard & Story Development** | USN-12 | As a data analyst, I can design an interactive dashboard for regional and sector-specific insights. | 5 | High | K.Divya Sree |
| **Sprint-2** | **Dashboard & Story Development** | USN-13 | As a data analyst, I can create a narrative Tableau Story summarizing key findings. | 3 | Medium | K.Divya Sree |
| **Sprint-2** | **Web Integration** | USN-14 | As a web developer, I can set up the basic Flask web application structure. | 2 | Medium | L.Gayathri |
| **Sprint-2** | **Web Integration** | USN-15 | As a web developer, I can embed the Tableau dashboards and story into the Flask UI. | 5 | High | L.Gayathri |
| **Sprint-2** | **Testing & Documentation** | USN-16 | As a QA analyst, I can perform performance testing on dashboard rendering and filter responsiveness. | 2 | Medium | G.Hari |
| **Sprint-2** | **Testing & Documentation** | USN-17 | As a project manager, I can prepare comprehensive project documentation. | 3 | High | G.Hari |

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

| Sprint | Total Story Points (Planned) | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date (Actual) |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint-1** | 14 | 5 Days | 17 Feb 2025 | 21 Feb 2025 | 14 | 21 Feb 2025 |
| **Sprint-2** | 33 | 5 Days | 24 Feb 2025 | 28 Feb 2025 | 33 | 28 Feb 2025 |

**Velocity:**

* **Total Story Points Completed =** Sprint 1 (14) + Sprint 2 (33) = **47 Story Points**
* **Number of Sprints = 2**

Velocity = Total Story Points Completed / Number of Sprints

Velocity = 47 / 2 = 23.5 Story Points per Sprint

**Conclusion:** Your team’s estimated velocity for this project is **23.5 Story Points per Sprint.**

Burndown Chart:

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burndown charts can be applied to any project containing measurable progress over time.

*(Note: A burndown chart is a visual representation and cannot be directly generated in this text format. You would plot the total remaining story points against the days of the sprint, showing a downward trend as work is completed.)*