**Initial Project Planning Template**

| Date | 9 july 2024 |
| --- | --- |
| Team ID | team-740034 |
| Project Name | Predicting the Energy Output Of Wind Turbine Based On Weather Condition |
| Maximum Marks | 4 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

Use the below template to create a product backlog and sprint schedule

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** | **Sprint Start Date** | **Sprint End Date (Planned)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Data Collection and Preprocessing | USN-1 | As a team member, I need to gather historical weather data (wind speed, temperature, humidity) and turbine performance data from various sources (sensors, databases) to build a dataset for analysis. | 5 | High | Data Engineer, Data Scientist | 2024-07-15 | 2024-07-27 |
| Sprint-2 | Model Development | USN-2 | As a data scientist, I need to explore and analyze the collected data to identify correlations between weather variables and turbine energy output. | 8 | High | Data scientist | 2024-08-15 | 2024-08-30 |
| Sprint-3 | Deployment and Monitoring | USN-3 | As an operations engineer, I need to deploy the developed model into a production environment and establish monitoring mechanisms to track its performance. | 9 | Low | Developer, Operations Engineer | 2024-09-05 | 2024-09-15 |
| Sprint-4 | Exploratory Data Analysis | USN-4 | As a data analyst, I need to perform exploratory data analysis to understand relationships and patterns between weather variables and wind turbine energy output. | 3 | Medium | Data Analyst | 2024-08-06 | 2024-08-15 |