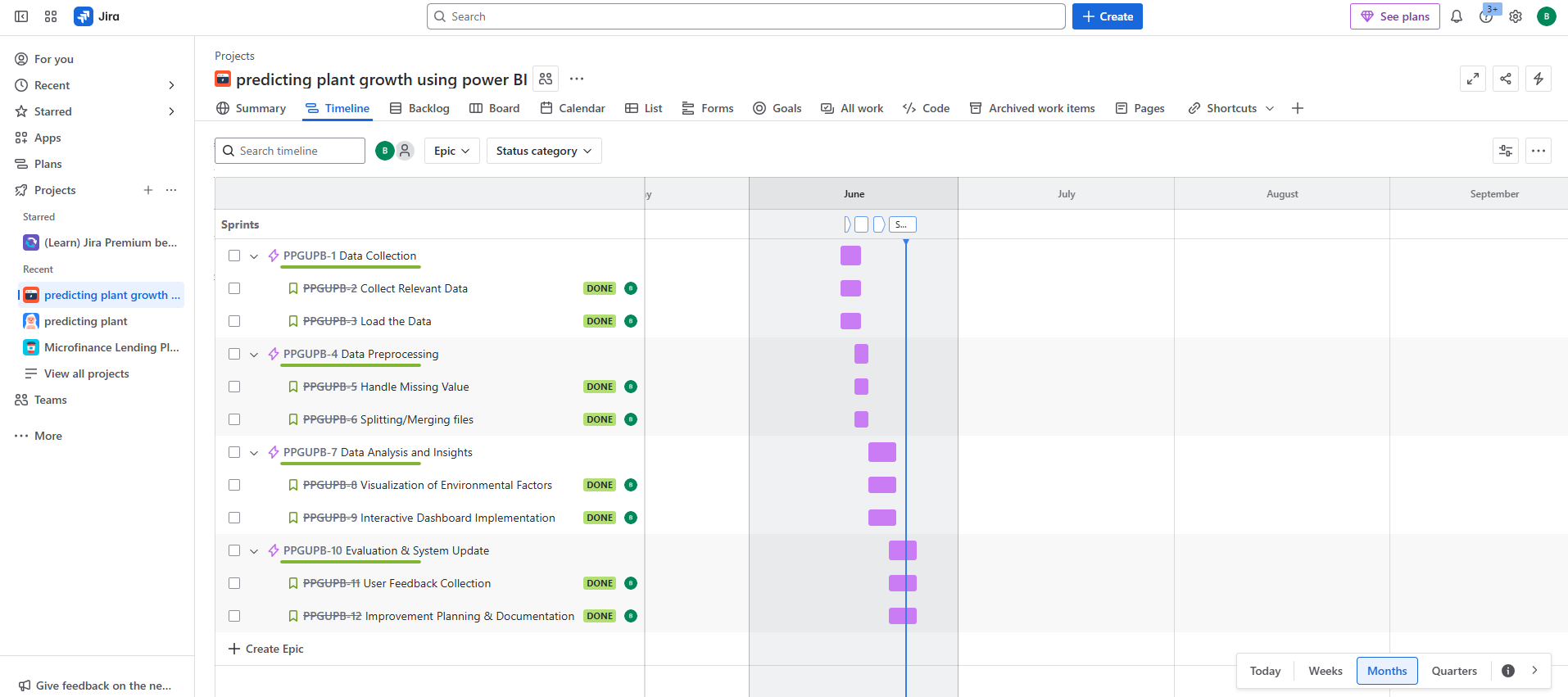
**Initial Project Planning Template**

|  |  |
| --- | --- |
| Date | 24 June 2025 |
| Team ID | xxxxxx |
| Project Name | Predicting plant growth stages with environmental and management data using power bi |
| 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 Member** | **Sprint Start Date** | **Sprint End Date (Planned)** |
| Sprint-1 | Data Collection | USN-1 | I can collect and organize soil, water, temperature, and humidity data for further processing. | 3 | Medium | Manish | 14 June,2025 | 15 June,2025 |
|  | Collect Relevant Data | USN-2 | I can collect soil type, humidity, temperature, and water frequency data from various sources to ensure complete input for analysis. | 2 | Medium | Manish | 14 June,2025 | 15 June,2025 |
|  | Load the Data | USN-3 | I can load the collected data into a central storage or database for further processing. | 1 | Medium | Manish | 14 June,2025 | 15 June,2025 |
| Sprint-2 | Data Preprocessing | USN-4 | This stage focuses on cleaning and organizing the raw data to make it analysis-ready. | 4 | High | Manish | 16 June,2025 | 17 June,2025 |
|  | Handle Missing Values | USN-5 | I can identify and fill or remove missing values to improve data quality and consistency. | 2 | High | Manish | 16 June,2025 | 17 June,2025 |
|  | Splitting/Merging Fields | USN-6 | I can split combined columns (e.g., Date Time into Date and Time) or merge fields where necessary to structure the dataset properly. | 2 | High | Manish | 16 June,2025 | 17 June,2025 |
| Sprint-3 | Data Analysis and Insights | USN-7 | As a data analyst, I can analyse growth milestones by environmental factors to identify patterns in plant development. | 8 | High | Manish | 18 June,2025 | 20 June,2025 |
|  | Visualization of Environmental Factors | USN-8 | As a user, I can view graphs showing average sunlight, temperature, and humidity levels to understand growing conditions. | 4 | Medium | Manish | 18 June,2025 | 20 June,2025 |
|  | Interactive Dashboard Implementation | USN-9 | As a farmer, I can use a dashboard to compare plant growth across soil types and water frequencies for better planning. | 4 | High | Manish | 18 June,2025 | 20 June,2025 |
| Sprint-4 | Evaluation & System Update | USN-10 | As a stakeholder, I can evaluate the system’s performance and suggest improvements for the next farming cycle. | 8 | Medium | Manish | 21 June,2025 | 23 June,2025 |
|  | User Feedback Collection | USN-11 | Gathering input from farmers, analysts, and stakeholders. | 5 | Medium | Manish | 21 June,2025 | 23 June,2025 |
|  | Improvement Planning & Documentation | USN-12 | Logging findings and planning improvements for future cycles. | 3 | Medium | Manish | 21 June,2025 | 23 June,2025 |

****

