**Initial Project Planning Template**

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| --- | --- |
| Date | 24 June 2025 |
| Team ID |  |
| Project Name | Global Food Production Trends and Analysis (1961–2023) 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 global food production data (1961–2023) from FAOSTAT and other reliable sources for analysis. | 3 | High | Shruti | 14 June,2025 | 15 June,2025 |
|  | Data Cleaning | USN-2 | I can standardize country names, commodities, and units to ensure consistency in the dataset. | 2 | High | Shruti | 14 June,2025 | 15 June,2025 |
|  | Data Storage | USN-3 | I can load the cleaned dataset into Power BI / central database for analysis. | 1 | Medium | Shruti | 14 June,2025 | 15 June,2025 |
| Sprint-2 | Data Preprocessing | USN-4 | I can preprocess the data by handling missing values, duplicates, and anomalies to make it analysis-ready. | 4 | High | Shruti | 16 June,2025 | 17 June,2025 |
|  | Feature Engineering | USN-5 | I can identify and fill or remove missing values to improve data quality and consistency. | 3 | High | Shruti | 16 June,2025 | 17 June,2025 |
|  | Data Modeling | USN-6 | I can design a star schema with Fact (Production) and Dimension tables for efficient analysis. | 2 | High | Shruti | 16 June,2025 | 17 June,2025 |
| Sprint-3 | |  | | --- | | Data Analysis &  Visualization |  |  | | --- | |  | | USN-7 | As a data analyst, I can analyze production trends, yields, and regional patterns to identify growth drivers. | 8 | High | Shruti | 18 June,2025 | 20 June,2025 |
|  | Dashboard Creation | USN-8 | As a policymaker, I can view interactive dashboards with KPIs, top producers, and commodity trends. | 4 | High | Shruti | 18 June,2025 | 20 June,2025 |
|  | Forecasting & Insights | USN-9 | As a researcher, I can generate forecasts and insights to support food security decisions. | 4 | Medium | Shruti | 18 June,2025 | 20 June,2025 |
| Sprint-4 | Evaluation & Improvement | USN-10 | |  | | --- | |  |  |  | | --- | | As a stakeholder, I can evaluate  dashboard usability and provide  feedback for improvements. | | 5 | Medium | Shruti | 21 June,2025 | 23 June,2025 |
|  | Documentation | USN-11 | I can prepare documentation summarizing methodology, findings, and limitations. | 3 | Medium | Shruti | 21 June,2025 | 23 June,2025 |
|  | |  | | --- | | Final Presentation |  |  | | --- | |  | | USN-12 | I can present the key findings and recommendations from the analysis to stakeholders. | 2 | Medium | Shruti | 21 June,2025 | 23 June,2025 |