**Initial Project Planning Template**

|  |  |
| --- | --- |
| Date | 20 June 2024 |
| Team ID | 740019 |
| Project Name | 3D Printer Material Prediction Using Machine Learning |
| Maximum Marks | 4 Marks |

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

The project involves researching 3D printing materials, data collection, preprocessing, machine learning model development, training/testing, system implementation, and UI design across six two-week sprints for efficient execution.

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** | **Sprint Start Date** | **Sprint End Date (Planned)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Research & Data Collection | 1,2 | |  | | --- | | Gather research articles and collect data |  |  | | --- | |  | | 5 | High | R. Rashmitha | 2024-07-16 | 2024-07-29 |
| Sprint-1 | Data Preprocessing & Model Development | 3,4 | Clean/preprocess data and develop initial ML model | 8 | High | S.Ragini | 2024-07-15 | 2024-07-29 |
| Sprint-1 | Model Training & Testing | 5,6 | |  | | --- | | Train/test ML model and validate predictions |  |  | | --- | |  | | 8 | High | K.Saiteja | 2024-07-15 | 2024-07-29 |
| Sprint-1 | Implementation & UI Design | 7,8 | Integrate model into system and design user interface | 8 | Low | MD.habeeb pasha | 2024-07-15 | 2024-07-29 |