**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 15 February 2025 |
| Team ID |  |
| Project Name |  |
| Maximum Marks | 5 Marks |

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

Use the below template to create product backlog and sprint schedule

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Data Handling | USN-1 | As a user, I can upload patient health data from an Excel or CSV file | 3 | High |  |
| Sprint-1 | Data Cleaning | USN-2 | As a system, I will clean and preprocess the data (missing values, encoding) | 3 | High |  |
| Sprint-1 | |  | | --- | |  |  |  | | --- | | Model Training | | USN-3 | As a developer, I can train the ML model on liver cirrhosis dataset | 5 | High |  |
| Sprint-2 | Web Interface | USN-4 | |  | | --- | |  |  |  | | --- | | As a user, I can input test values into a web form for prediction | | 2 | High |  |
| Sprint-2 | Prediction Engine | USN-5 | As a user, I receive the risk level prediction after submitting health data | 2 | High |  |
| Sprint-2 | Alert Mechanism | USN-6 | As a system, I can send email alerts if the predicted risk is high | 2 | Medium |  |
| Sprint-3 | Database Logging | USN-7 | As a system, I log all user inputs and prediction outputs to a local/cloud DB | 2 | Medium |  |
| Sprint-3 | Admin Dashboard | USN-8 | As an admin, I can monitor prediction logs and performance analytics | 3 | Medium |  |

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

| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | 11 | 2 Days | 22 Jun 2025 | 24 Jun 2025 | 11 | 24 Jun 2025 |
| Sprint-2 | 20 | 1 Days | 25 Jun 2025 | 25 Jun 2025 | 6 | 25 Jun 2025 |
| Sprint-3 | 20 | 1 Days | 26 Jun 2025 | 26 Jun 2025 | 5 | 26 Jun 2025 |

**Velocity:**

* print-1 Velocity = 11 SP / 6 days ≈ **1.83 SP/day**
* Sprint-2 Velocity = 6 SP / 6 days ≈ **1 SP/day**
* Sprint-3 Velocity = 5 SP / 6 days ≈ **0.83 SP/day**

**Average Velocity = (1.83 + 1 + 0.83)/3 = 1.22 SP/day**

**Burndown Chart:**

