**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 30 June 2025 |
| Team ID | LTVIP2025TMID37158 |
| Project Name | Transfer Learning-Based Classification of  Poultry Diseases for Enhanced Health  Management |
| Maximum Marks | 5 Marks |

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

Product backlog and sprint schedule:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint-1 | Dataset Preparation | USN-1 | As a data scientist, I will collect and clean the poultry disease dataset | 3 | High | Rodda vamsi krishna reddy |
| Sprint-1 | Preprocessing | USN-2 | As a developer, I will resize and normalize poultry images | 2 | High | Reddem ganesh reddy |
| Sprint-2 | Model Building | USN-3 | As a developer, I will build a CNN using transfer learning (VGG16) | 3 | High | Rodda vamsi krishna reddy |
| Sprint-2 | Model Training | USN-4 | As a developer, I will train and evaluate the model on the dataset | 3 | High | Rodda vamsi krishna reddy |
| Sprint-3 | Fine-Tuning | USN-5 | As a developer, I will fine-tune the last layers of VGG16 for higher accuracy | 2 | Medium | Reddem ganesh reddy,n charantejash |
| Sprint-3 | Deployment | USN-6 | As a developer, I will deploy the model via a web interface for user interaction. | 3 | Medium | L yuvasree |
| Sprint-4 | Flask Web UI | USN-7 | As a user, I will upload an image and get prediction results via Flask app | 3 | High | L yuvasree |
| Sprint-  4 | Report Generation | USN-8 | As a team, we will prepare screenshots and reports | 2 | High | Full team |

**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 | 5 | 5 Days | 4 June 2025 | 9 June 2025 | 5 | 10 June 2025 |
| Sprint-2 | 6 | 5 Days | 10 June 2025 | 15 June 2025 | 6 | 15 June 2025 |
| Sprint-3 | 5 | 5 Days | 16 June 2025 | 21 June 2025 | 5 | 21 June 2025 |
| Sprint-4 | 5 | 5 Days | 22 June 2025 | 27 June 2025 | 5 | 27 June 2025 |

**Velocity:**

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)

