**Project Planning Phase**

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

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| --- | --- |
| Date | 15 February 2025 |
| Team ID | LTVIP2025TMID43995 |
| 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)

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Data Preparation | USN-1 | As a user, I want to collect poultry disease image and symptom data from reliable sources. | 2 | High | Member 1 |
| Sprint-1 | Data Preparation | USN-2 | As a user, I want to load and organize the dataset into the project. | 1 | High | Member 2 |
| Sprint-1 | Data Preprocessing | USN-3 | As a user, I want to handle missing values in data. | 3 | Medium | Member 3 |
| Sprint-1 | Data Preprocessing | USN-4 | As a user, I want to encode categorical values for model compatibility. | 2 | Medium | Member 4 |
| Sprint-2 | Model Building | USN-5 | As a user, I want to build and train a deep learning model using transfer learning. | 5 | High | Member 1 |
| Sprint-2 | Model Building | USN-6 | As a user, I want to test and evaluate the model performance. | 3 | High | Member 2 |
| Sprint-2 | Deployment | USN-7 | As a user, I want to access a functional HTML interface for the web app. | 3 | Medium | Member 3 |
| Sprint-2 | Deployment | USN-8 | As a user, I want the model deployed via Flask so it can be accessed online. | 5 | High | Member 4 |

## Project Tracker, Velocity & Burndown Chart (4 Marks)

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| --- | --- | --- | --- | --- | --- |
| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (as on Planned End Date) |
| Sprint-1 | 8 | 5 Days | 19 June 2025 | 24 Feb 2025 | 8 |
| Sprint-2 | 16 | 5 Days | 22 2025 | 27 Feb 2025 | 16 |

Velocity = Total Story Points Completed / Number of Sprints = 24 / 2 = 12 Story Points per Sprint