**Project Planning Phase**

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

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| --- | --- |
| Date | 28June 2025 |
| Team ID | LTVIP2025TMID32660 |
| Project Name | Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management |
| Maximum Marks | 5 Marks |

## 1. Product Backlog, Sprint Schedule, and Estimation (4 Marks)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
| Sprint-1 | Image Upload | USN-1 | As a user, I can upload a butterfly image for classification. | 2 | High | Member 1 |
| Sprint-1 | Prediction | USN-2 | As a user, I get the butterfly species prediction after upload. | 2 | High | Member 2 |
| Sprint-1 | UI Setup | USN-3 | As a user, I can interact with a clean and responsive UI. | 1 | Medium | Member 3 |
| Sprint-2 | Model Training | USN-4 | As a developer, I can train the CNN model using transfer learning. | 4 | High | Member 2 |
| Sprint-2 | Data Preprocessing | USN-5 | As a developer, I can normalize and augment the image data. | 3 | Medium | Member 1 |
| Sprint-3 | Performance Testing | USN-6 | As a tester, I can evaluate model accuracy and inference speed. | 2 | High | Member 4 |
| Sprint-3 | Error Handling | USN-7 | As a user, I get proper error messages for invalid inputs. | 1 | Medium | Member 3 |
| Sprint-4 | Results Display | USN-8 | As a user, I can see prediction confidence and species info. | 2 | High | Member 3 |
| Sprint-4 | Documentation | USN-9 | As a team, we prepare and submit complete documentation. | 1 | High | All |

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

Sprint Tracker Table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (on Planned End Date) | Sprint Release Date (Actual) |
| Sprint-1 | 5 | 6 Days | 10 June 2025 | 15 June 2025 | 5 | 15 June 2025 |
| Sprint-2 | 7 | 6 Days | 16 June 2025 | 21 June 2025 | 5 | 21 June 2025 |
| Sprint-3 | 3 | 4 Days | 22 June 2025 | 25 June 2025 | 3 | 25 June 2025 |
| Sprint-4 | 3 | 3 Days | 26 June 2025 | 28 June 2025 | 3 | 28 June 2025 |

Velocity Calculation:

**Total Story Points Completed** = 5 + 7 + 3 + 3 = **18**

**Total Sprint Duration** = 6 + 6 + 4 + 3 = **19 days**

**Average Velocity** = 18 story points ÷ 19 days ≈ **0.95 story points/day**