**Project Planning Phase**

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

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| --- | --- |
| Date: | 25 June 2025 |
| Team ID: | LTVIP2025TMID36354 |
| Project Name: | Enchanted Wings: Marvels of Butterfly Species |
| Maximum Marks: | 5 Marks |

## Product Backlog, Sprint Schedule, and Estimation :

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Data Collection | USN-1 | As a system, I want to collect butterfly datasets from reliable online sources. | 2 | High | Ganesh |
| Sprint-1 | Data Collection | USN-2 | As a developer, I want to load image data and store metadata for inspection. | 1 | Medium | Ganesh |
| Sprint-1 | Data Preprocessing | USN-3 | As a data scientist, I want to handle missing/corrupted data using pandas tools. | 3 | High | Santosh |
| Sprint-1 | Data Preprocessing | USN-4 | As a data scientist, I want to encode species labels into numerical values. | 2 | Medium | Santosh |
| Sprint-2 | Model Building | USN-5 | As a developer, I want to build a classification model for butterfly species. | 5 | High | Jeevan |
| Sprint-2 | Model Building | USN-6 | As a QA, I want to test the model for accuracy, precision, and recall. | 3 | High | Jeevan |
| Sprint-2 | Deployment | USN-7 | As a user, I want to upload an image and view results on a web page. | 3 | Medium | Sudarshan |
| Sprint-2 | Deployment | USN-8 | As a developer, I want to deploy the app using Flask and integrate the model. | 5 | High | Sudarshan |

## Project Tracker, Velocity & Burndown Chart :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed** |
| Sprint-1 | 8 | 5 Days | 18 June 2025 | 22 June 2025 | 8 |
| Sprint-2 | 16 | 5 Days | 23 June 2025 | 27 June 2025 | 16 |

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