Project Planning Phase

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

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| Date: | 25 June 2025 |
| Team ID: | LTVIP2025TMID47029 |
| 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 | 3 | Medium | Sudarshan |

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| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | image and view  results on a web page. |  |  |  |
| 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