**Project Planning Phase**

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

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| --- | --- |
| Date | 12 June 2025 |
| Team ID | LTVIP2025TMID32493 |
| Project Name | Enchanted Wings: Marvels of Butterfly Species |
| Maximum Marks | 5 Marks |

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

Use the below template to create 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 | Collect, clean, and split butterfly image dataset | 5 | High | K. Uday Kumar |
| Sprint-1 | Model Setup | USN-2 | Set up transfer learning using pre-trained CNN  Complete transfer learning implementation | 3 | High | K. Chaitanya |
| Sprint-2 | Model Training | USN-3 | Train model to classify 75 butterfly species | 8 | High | K. Chaitanya |
| Sprint-2 | Model Evaluation | USN-4 | Evaluate model performance (accuracy, confusion matrix) | 3 | High | K. Chaitanya |
| Sprint-3 | |  | | --- | |  |  |  | | --- | | Real-time Prediction App | | USN-5 | Build lightweight app for field classification | 13 | Medium | K. Uday Kumar |
| Sprint-3 | User Upload + Identification | USN-6 | |  | | --- | |  |  |  | | --- | | Upload butterfly image and get species name | | 8 | Medium | CH. Sai Karthik |
| Sprint-3 | Batch Image Classification | USN-7 | |  | | --- | |  |  |  | | --- | | Enable batch image upload and classification | | 5 | Medium | CH. Sai  Karthik |
| Sprint-3 | Results Visualization | USN-8 | |  | | --- | |  |  |  | | --- | | Create dashboard for visualizing classification stats | | 8 | Low | K. Uday Kumar |

**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 | 11 | 6 Days | 12 June 2025 | 18 June 2025 | 11 | 12 June 2025 |
| Sprint-2 | 18 | 6 Days | 18 June 2025 | 24 July 2025 | 18 | 24 June 2025 |
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**Velocity:**

Total Story Points = 29 (11 + 18)

Number of Sprints = 2

Velocity = 29 / 2 = 14.5 Story Points per Sprint

**Burndown Chart:**

**Reference:**

[**https://www.atlassian.com/agile/project-management**](https://www.atlassian.com/agile/project-management)

[**https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software**](https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software)

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[**https://www.atlassian.com/agile/tutorials/sprints**](https://www.atlassian.com/agile/tutorials/sprints)

[**https://www.atlassian.com/agile/project-management/estimation**](https://www.atlassian.com/agile/project-management/estimation)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)