**Project Planning Phase**

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

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| --- | --- |
| Date | 17 June 2025 |
| Team ID | LTVIP2025TMID32832 |
| Project Name | Pollen's Profiling: Automated Classification of Pollen Grains |
| 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 Upload | USN-1 | As a user, I can upload pollen images into the system.. | 2 | High | Eduri Maryjones |
| Sprint-1 | Dataset Preprocessing | USN-2 | As a user, the system resizes, cleans, and prepares images for model training. | 3 | High | Idimukkala Yasasswini |
| Sprint-1 | Model Training | USN-3 | As a user, I can train a CNN model to classify pollen grains. | 5 | High | Mamidela Venkata Naga Suseel Kumar |
| Sprint-2 | Predictio Function | USN-4 | As a user, I can upload an image and get the predicted pollen type. | 3 | High | J Pushpitha |
| Sprint-2 | Web interface(Flask) | USN-5 | As a user, I can use a simple web app to upload and get predictions. | 3 | Medium | Inturi Venkata Vikash |
| Sprint-3 | Testing | USN-6 | As a user, I want the system to be tested for accuracy and performance. | 2 | High | Idimukkala Yasasswini |
| Sprint-3 | Deployment  (local/cloud) | USN-7 | As a user, I can deploy the web app to GitHub or a cloud platform. | 2 | Medium | Mamidela Venkata Naga Suseel Kumar |
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**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 | 10 | 6 Days | 10 June 2025 | 15 June 2025 | 10 | 15 June |
| Sprint-2 | 20 | 6 Days | 16 June 2025 | 21 June 2025 | 8 | 21 June |
| Sprint-3 | 20 | 6 Days | 22 June 2025 | 26 June 2025 | 7 | 26 June |
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**Velocity:**

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)



**Burndown Chart:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile[software development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.

**<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>**

**<https://www.atlassian.com/agile/tutorials/burndown-charts>**

**Reference:**

**<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/epics>**

**<https://www.atlassian.com/agile/tutorials/sprints>**

**<https://www.atlassian.com/agile/project-management/estimation>**

**<https://www.atlassian.com/agile/tutorials/burndown-charts>**