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

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|---|---|
| Date | 18 October 2022 |
| Team ID | Team 591668 |
| Project Name | Deep Learning Fundus Image Analysis For Early Detection Of Diabetic Retinopathy |
| Maximum Marks | 8 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | 1 |
| Sprint-1 | | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 2 | High | 1 |
| Sprint-2 | | USN-3 | As a user, I can register for the | 1 | Low | 1 |

| | | | application through Facebook | | | |
|---|---|---|---|---|---|---|
| Sprint-1 | | USN-4 | As a user, I can register for the application through Gmail | 2 | Medium | 1 |
| Sprint-1 | Login | USN-5 | As a user, I can log into the application by entering email & password | 2 | High | 1 |
| Sprint-4 | Dashboard | USN-4 | Users can access his past reports and the results. | 1 | High | 2 |
| Sprint 2 | Validation | USN-2 | Validates the users credentials | 2 | low | 1 |
| Sprint 3 | Patients details | USN-6 | I can access the results and can further move on to treatments. | 2 | High | 3 |
| Sprint 2 | Data Availability | USN-5 | As a user, I can view the history of my image predictions. | 1 | High | 3 |
| Sprint 3 | Prediction | USN-2 | Model should predict based on the trained images | 2 | High | 3 |
| Sprint-4 | Logout | USN-2 | After successful analysis i can logout of the page | 2 | High | 2 |
| Sprint-1 | Data Security | USN-4 | All my data should be secured and private. No compromises should be made. | 1 | High | 3 |

**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 | 20 | 5 Days | 03 Nov 2023 | 07 Nov 2023 | 20 | 07 Nov 2023 |
| Sprint-2 | 20 | 3 Days | 08 Nov 2023 | 10 Nov 2023 | 20 | 10 Nov 2023 |
| Sprint-3 | 20 | 5 Days | 11 Nov 2023 | 15 Nov 2023 | 18 | 15 Nov 2023 |
| Sprint-4 | 20 | 4 Days | 16 Nov 2023 | 19 Nov 2023 | 18 | 19 Nov 2023 |

**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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

AV=73/6=12.33 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 methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.