# Project Planning Phase

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

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|---|---|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID17540 |
| 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-3 | Registration | USN-1 | As a user, I can register through website either by email id or phone number with password. | 5 | High | Ummul Raihan.M Sunmathi. M. M |
| Sprint-3 | Login | USN-2 | As a user, I can login to the site by the given Login credentials. | 5 | High | Subhiksha. M Sunmathi. M. M |
| Sprint-3 | Upload image | USN-3 | As a user,I can upload my data in the form of pdf, doc etc. | 2 | Medium | Subhiksha. M Jeya Sri . A |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-3 | Admin login | USN-4 | As an admin I can login to the site and analyze the user data. | 2 | High | Soniga. M. P Jeya Sri . A |
| Sprint-1 | Data collection | USN-5 | As an admin, I can collect the dataset related to  the DR from source. | 5 | Low | Soniga. M. P Ummul Raihan.M |
| Sprint-1 | Create model | USN-6 | As an admin,I can create the model for prediction. | 5 | High | Subhiksha. M Jeya Sri. A |
| Sprint-2 | Test the model | USN-7 | As an admin, I can test the model for prediction. | 6 | High | Jeya Sri . A Sunmathi. M.  M |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-2 | Diagnosis | USN-8 | As a user I can get the diagnosis result on the application and follow up with treatments. | 6 | High | Soniga. M. P Sunmathi. M.  M |
| Sprint-4 | Train the model | USN-9 | As an admin, I can train the model for prediction. | 10 | High | Subhiksha. M jeyasri.A |

**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 | 24 Oct 2022 | 29 Oct 2022 | 10 | 29 Oct 2022 |
|----------|----|--------|-------------|-------------|----|-------------|
| Sprint-2 | 12 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 12 | 05 Nov 2022 |
| Sprint-3 | 14 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 14 | 12 Nov 2022 |
| Sprint-4 | 10 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 10 | 19 Nov 2022 |

**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) AV1=Sprint duration/velocity=10/6=1.66

AV2=Sprint duration/velocity=12/6=2

AV3=Sprint duration/velocity=14/6=2.3

AV4=Sprint duration/velocity=10/6=1.66


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.