

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID53159
Project Name	Project - AI-Based localization and classification of skin disease with erythema
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.	8	High	Ayush & Samir
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	Aasif & Sushil
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	7	High	Samir & Sushil
Sprint-2	Dashboard	USN-4	As a user, I will be given an optional video demo about how to use the system	10	High	Ayush & Aasif
Sprint-2		USN-5	As a user, I can upload an image of the affected area	10	High	Samir and Sushil
Sprint-3	Image Processing		The image uploaded by the user will be pre-processed and subsequently fed into the trained YOLO model.	10	Medium	Sushil & Ayush
Sprint-3			Model will classify localize the infected area if found	10	High	Samir & Aasif
Sprint-4	Report Generation	USN-6	As a user, I will be provided the report containing information of my skin disease if found	5	Medium	Ayush & Aasif

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4		USN-7	As I will be able to see the localized region if found by the model	5	High	Ayush
Sprint-4	Sending email	USN-8	Report of the prediction will be sent to the email address provided by the user	5	High	Aasif
Sprint-4		USN-9	User will be able to download the localized image and can log out.	5	High	Samir & Sushil

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	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	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)

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

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.

<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>