Project Planning Phase

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

Date	1-11-2023
Team ID	Team-592681
Project Name	Early Diagnosis Of Nail Diseases
Maximum Marks	20 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	Project setup & Infrastructure	USN-1	Set up the development environment with the required tools and frameworks to start the nail disease classification project.		High	Pratyush
Sprint-1	development environment	USN-2	Gather a diverse dataset of images containing different types of nail diseases for training the deep learning model.		High	Pratyush
Sprint-2	Data collection	USN-3	Preprocess the collected dataset by resizing images, normalizing pixel values, and splitting it into training and validation sets.		High	Pratyush
Sprint-2	data preprocessing	USN-4	Explore and evaluate different deep learning architectures (e.g., CNNs,VGG16) to select the most suitable model for garbage classification.	3	High	Siddhanth
Sprint-3	model development	USN-5	Train the selected deep learning model using the preprocessed dataset and monitor its performance on the validation set.	4	High	Siddhanth
Sprint-3	Training	USN-6	implement data augmentation techniques (e.g., rotation, flipping) to improve the model's robustness and accuracy.	6	medium	Siddhanth
Sprint-4	model deployment & Integration	USN-7	deploy the trained deep learning model as an API or web service to make it accessible for nail disease classification. Integrate the model's API into a user-friendly web interface for users to upload images and receive results.	1	medium	Manas
Sprint-5	Testing & quality assurance	USN-8	conduct thorough testing of the model and web interface to identify and report any issues or bugs. fine-tune the model hyperparameters and optimize its performance based on user feedback and testing results.	1	medium	Manas

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	3	3 Days	16 Oct 2023	18 Oct 2023	3	18 Oct 2023
Sprint-2	5	6 Days	19 Oct 2023	24 Oct 2023	5	22 Oct 2023
Sprint-3	10	4 Days	25 Oct 2023	29 Oct 2023	10	29 Oct 2023
Sprint-4	1	5 Days	30 Oct 2023	3 Nov 2023	1	3 Nov 2023
Sprint-5	1	3 Days	4 Nov 2023	6 Nov 2023	1	6 Nov 2023

Velocity:

Imagine we have a 29-days 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 = 21/20 = 1.05

Burndown Chart:

A burndown 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

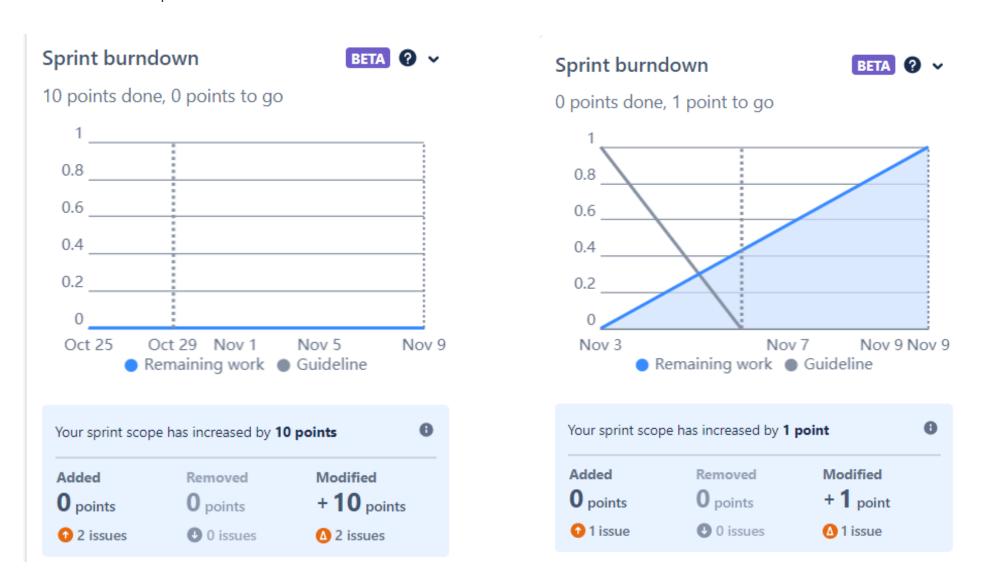
https://www.atlassian.com/agile/tutorials/epicshttps://www.atlassian.com/agile/tutorials/sprintshttps://www.atlassian.com/agile/tutoria

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

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

Burndown Chart:

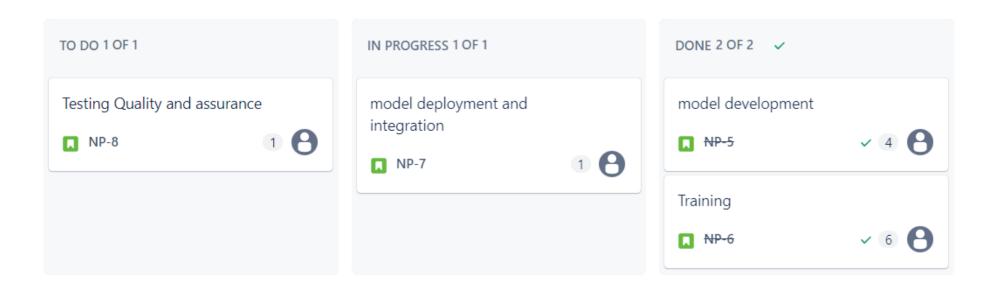
Sprint 3



Sprint 5

Board section.

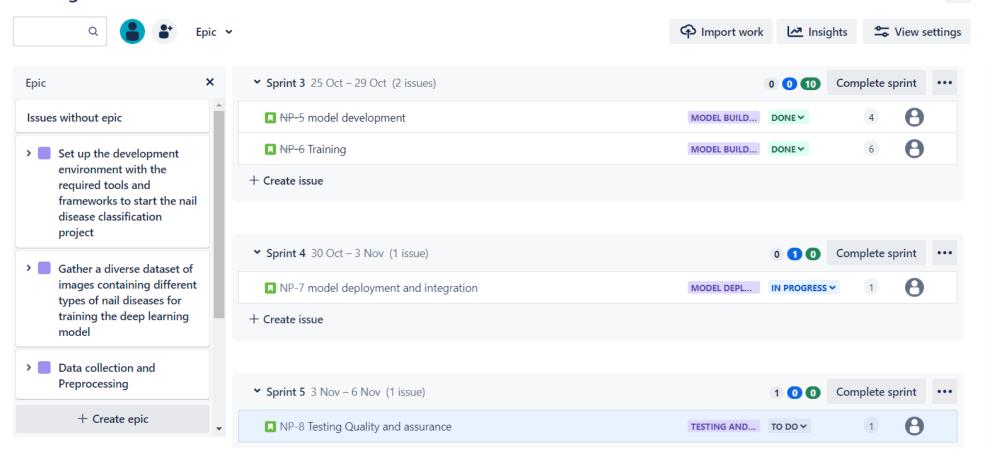
We have completed sprint 1,2 and 3. sprint 4 in progress and sprint 5 to do. So we can see the remaining tasks on board.



Backlog section

Projects / Nail-Project

Backlog



Timeline

Projects / Nail-Project

Timeline € Give feedback

Q Status category • Epic •

	л	NOV	DEC
Sprints	Spri	Sp	
NP-1 Set up the development environm			
NP-2 Gather a diverse dataset of image			
NP-9 Data collection and Preprocessing			
> NP-10 Model building			
> NP-11 Model Deployment and Integrati			
> NP-12 Testing and Quality assurance			