

## 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.	1	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.	2	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.	2	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)

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

$$AV = 21/20 = 1.05$$

### **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/epics>

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

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

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

## Burndown Chart:

Sprint 3

### Sprint burndown

BETA ? ▾

10 points done, 0 points to go



Your sprint scope has increased by **10 points**



Added

**0** points

↑ 2 issues

Removed

**0** points

↓ 0 issues

Modified

**+ 10** points

⚠ 2 issues

Sprint 5

### Sprint burndown

BETA ? ▾

0 points done, 1 point to go



Your sprint scope has increased by **1 point**



Added

**0** points

↑ 1 issue

Removed

**0** points

↓ 0 issues

Modified

**+ 1** point

⚠ 1 issue

### 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.

TO DO 1 OF 1

Testing Quality and assurance

NP-8

1

IN PROGRESS 1 OF 1

model deployment and integration

NP-7

1

DONE 2 OF 2 ✓

model development

NP-5

✓

4

Training

NP-6

✓

6

## Backlog section

Projects / Nail-Project


### Backlog

   Epic 


Import work


Insights


View settings

Epic 

Issues without epic


>  Set up the development environment with the required tools and frameworks to start the nail disease classification project


>  Gather a diverse dataset of images containing different types of nail diseases for training the deep learning model



>  Data collection and Preprocessing


+ Create epic



▼ Sprint 3 25 Oct – 29 Oct (2 issues)

0 0 10 Complete sprint 

 NP-5 model development


MODEL BUILD... DONE  4 


 NP-6 Training



MODEL BUILD... DONE  6 

+ Create issue

▼ Sprint 4 30 Oct – 3 Nov (1 issue)


0 1 0 Complete sprint 


 NP-7 model deployment and integration



MODEL DEPL... IN PROGRESS  1 

+ Create issue

▼ Sprint 5 3 Nov – 6 Nov (1 issue)

1 0 0 Complete sprint 

 NP-8 Testing Quality and assurance

TESTING AND... TO DO  1 

## Timeline

Projects / Nail-Project

## Timeline

 Give feedback



Status category ▾

Epic ▾

