

Project Planning Phase

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

Date	03 November 2023
Team ID	Team-593208
Project Name	Detecting COVID-19 From Chest X-Rays Using Deep Learning Techniques
Maximum Marks	5 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	AI/ML – Preprocessing	USN-1	Preprocess the X-ray images for uniformity and quality.	1	Low	Srivibhava A S
Sprint-1	Building AI/ML model	USN-2	Train a deep learning model to detect COVID-19 in X-ray images.	2	Medium	Karthik R
Sprint-2	Login	USN-3	Creating user registration and login for users to interact.	3	High	LakshiV S
Sprint-2	Authentication	USN-4	Implement user authentication for user security.	2	Medium	Srivibhava A S
Sprint-3	Dashboard	USN-5	Develop a user dashboard for viewing analysis results.	3	High	Pavithra S
Sprint-3	Image upload	USN-6	Creating a provision for image upload	2	High	Srivibhava A S
Sprint-4	Database	USN-7	Set up a database to store user data and diagnostic results.	3	High	Karthik R
Sprint-4	Integrate	USN-8	Integrate the AI/ML model with the web application.	2	Medium	LakshiV S
Sprint-5	Deployment and Test	USN-9	Deploy the application on a cloud platform and perform testing.	2	Medium	Pavithra S

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	2 Days	27/10/2023	28/10/2023	20	
Sprint-2	5	3 Days	29/10/2023	31/10/2023		
Sprint-3	5	4 Days	31/10/2023	03/11/2023		
Sprint-4	5	2 Days	03/11/2023	05/11/2023		
Sprint-5	2	2 Days	05/11/2023	07/11/2023		

Velocity:

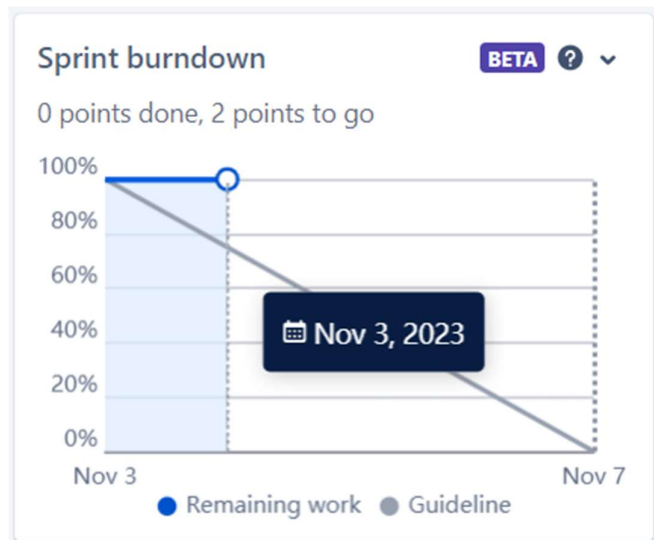
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

$$AV = 13/20 = 0.65$$

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.



Board Section:

Projects / CovidDetection

All sprints

SA

K

Epic ▾ Sprint ▾

GROUP BY

None ▾

Import work

Insights

View settings

IN PROGRESS 1

Creating a provision for image upload

FRONTEND WEBPAGE CREATION

COV-7 2 SA

TO DO 3

Set up a database to store user data and diagnostic results.

BACK END WEBPAGE [DATABASE, MODEL...

COV-8 3 K

Integrate the AI/ML model with the web application.

BACK END WEBPAGE [DATABASE, MODEL...

COV-9 2

Deploy the application on a cloud platform and perform testing.

DEPLOYMENT AND QUALITY CHECK

COV-10 2

DONE 5 ✓

Preprocess the X-ray images for uniformity and quality.

DATA COLLECTION AND PREPROCESSING

COV-2 ✓ 1 SA

Train a deep learning model to detect COVID-19 in X-ray images.

DATA COLLECTION AND PREPROCESSING

COV-3 ✓ 2 K

Creating user registration and login for users to interact.

USER REGISTRATION AND AUTHENTICATI...

COV-4 ✓ 3

Implement user authentication for user security.

USER REGISTRATION AND AUTHENTICATI...

COV-5 ✓ 2 SA

Develop a user dashboard for viewing analysis results.

FRONTEND WEBPAGE CREATION

COV-6 ✓ 3

Backlog Section:

Projects / CovidDetection

Backlog

Import work Insights View settings

Epic

Issues without epic

> User Registration And Authentication

> Data Collection and Preprocessing

> FrontEnd Webpage Creation

> Back End Webpage [Database, Model Integration]

> Deployment and Quality Check

+ Create epic

▼ Sprint 1 27 Oct – 28 Oct (2 issues)

Preprocessing images and training deep learning model

GDW-2 Preprocess the X-ray images for uniformity and quality. DATA COLLECTION AN... DONE ✓ 1 SA

GDW-3 Train a deep learning model to detect COVID-19 in X-ray images. DATA COLLECTION AN... DONE ✓ 2 SA

+ Create issue

▼ Sprint 2 29 Oct – 31 Oct (2 issues)

GDW-4 Creating user registration and login for users to interact. USER REGISTRATION A... DONE ✓ 3 SA

GDW-5 Implement user authentication for user security. USER REGISTRATION A... DONE ✓ 2 SA

+ Create issue

▼ Sprint 3 31 Oct – 3 Nov (2 issues)

Develop user dashboard and create provision for image upload

GDW-6 Develop a user dashboard for viewing analysis results. FRONTEND WEBPAGE C... DONE ✓ 3 SA

COV-7 Creating a provision for image upload FRONTEND WEBPAGE C... IN PROGRESS 2 SA

+ Create issue

▼ Sprint 4 3 Nov – 5 Nov (2 issues)

Setup database and integrate AI/ML model

COV-8 Set up a database to store user data and diagnostic results. BACK END WEBPAGE [D... TO DO 3 SA

COV-9 Integrate the AI/ML model with the web application. BACK END WEBPAGE [D... TO DO 2 SA

+ Create issue

▼ Sprint 5 3 Nov – 7 Nov (1 issue)

Deploy application on cloud and testing

COV-10 Deploy the application on a cloud platform and perform testing. DEPLOYMENT AND QU... TO DO 2 SA

+ Create issue

Timeline Section:

