

Project Planning Phase

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

Date	27-10-2023
Team ID	Team-592660
Project Name	Detecting COVID-19 From Chest X-Rays Using Deep Learning Techniques
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	Project Setup	USN-1	Create a development environment with the necessary tools and frameworks for the COVID-19 detection project.	1	High	Hruthik
Sprint-1	Infrastructure	USN-2	Plan the infrastructure for data storage, model training, and web interface deployment	2	Medium	Hruthik
Sprint-2	Data collection	USN-3	Gather a diverse dataset of chest X-rays containing COVID-19, pneumonia, bronchitis, and normal cases.	2	High	Phaneendra
Sprint-2	Data preprocessing	USN-4	Resize chest X-ray images to a consistent size. Normalize pixel values to a standard range.	4	High	Phaneendra
Sprint-3	Model Development	USN-5	Developing a deep learning model using CNNs to accurately detect COVID-19 from chest X-rays.	4	High	Hruthik
Sprint-4	Model Training	USN-6	Assess the model's performance using evaluation metrics. Ensure the model effectively distinguishes COVID-19 cases from other respiratory conditions.	5	High	Monaalika
Sprint-5	Model deployment & Integration	USN-7	Deploy the trained deep learning model as an API or web service. Create a user-friendly web interface for uploading chest X-ray images	2	medium	Phaneendra
Sprint-6	Model testing	USN-8	Tested the model on a separate dataset of chest X rays to evaluate its performance and accuracy	2	medium	Monaalika

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	15 Oct 2023	18 Oct 2023	3	18 Oct 2023
Sprint-2	6	4 Days	18 Oct 2023	22 Oct 2023	6	22 Oct 2023
Sprint-3	4	4 Days	22 Oct 2023	26 Oct 2023	4	26 Oct 2023
Sprint-4	5	5 Days	26 Oct 2023	31 Oct 2023	1	27 Oct 2023
Sprint-5	2	6 Days	31 Oct 2023	6 Nov 2023	Yet to start	
Sprint-6	2	7 Days	6 Nov 2023	13 Nov 2023	Yet to start	
Total Sprints		29 Days				

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= sprint duration / velocity

AV= 29 / 20 = 1.45

Sprint-1: 3 user stories x 20 story points = 60, Sprint-2: 6 user stories x 20 story points = 120

Sprint-3: 4 user stories x 20 story points = 80, Sprint-4: 1 user story x 20 story points =

20 Total = 280

So, your average of completed story points is $280 \div 4 = 70$.

Burndown Chart:

For Sprint 1:

Sprint burndown

BETA ? ▾

3 points done, 0 points to go



For Sprint 2:

Sprint burndown

BETA ? ▾

6 points done, 0 points to go



For Sprint 3:

Sprint burndown

BETA ? ▾

4 points done, 0 points to go



For Sprint 4:

Sprint burndown

BETA ? ▾

0 points done, 5 points to go



Board section:

We have completed sprint 1, 2 and 3. So we can see the remaining tasks on board.

The screenshot shows the Jira interface for a project named "Detecting covid-19 from chest X-rays using Deep learning techniques(1)". The top navigation bar includes the Jira logo, "Your work", "Projects", "Filters", "Dashboards", "Teams", "Apps", and a "Create" button. A search bar is on the right. Below the navigation bar, a banner suggests exploring popular team-specific column setups. The left sidebar shows the project name, "You're on the Free plan", an "UPGRADE" button, and a menu with "PLANNING" (Timeline, Backlog, Board, Reports, Add view) and "DEVELOPMENT" (Code, Project pages, Add shortcut, Project settings). The main area displays the "All sprints" view for the current sprint. It features three columns: "TO DO", "IN PROGRESS", and "DONE 6". The "DONE 6" column contains five tasks, each with a description, a category label, a progress indicator, a count, and an assignee icon. A "Quickstart" button is in the bottom right corner.

Projects / Detecting covid-19 from chest X-rays using Deep learning techniques(1)

All sprints

Need inspiration while naming the board's columns? Explore popular team-specific column setups. [View popular column setups](#)

⚡ ☆ ⌚ 0 days remaining **Complete sprint** ⋮

GROUP BY: None Insights View settings

TO DO	IN PROGRESS	DONE 6
		<p>Gather a diverse dataset of chest X-rays containing covid-19</p> <p>DATA COLLECTION</p> <p>BT-6 ✓ 2 V</p>
		<p>resize chest X-rays images to a consistent size. Normalize pixel values</p> <p>DATA PREPROCESSING</p> <p>BT-7 ✓ 4 V</p>
		<p>assess the models performance using evaluation metrics</p> <p>MODEL TRAINING</p> <p>BT-14 ✓ 5 V</p>
		<p>create a development environment with the necessary tools and frameworks</p> <p>PROJECT SETUP</p> <p>BT-10 ✓ 1 SH</p>
		<p>plan the infrastructure for data storage, model training</p> <p>INFRASTRUCTURE</p>

Quickstart ✕

Backlog section:

Jira

Your work

Projects

Filters

Dashboards

Teams

Apps

Create

Q Search

Detecting covid-19 from...

Software project

You're on the Free plan

UPGRADE

PLANNING

Timeline

Backlog

Board

Reports

Add view

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

Projects / Detecting covid-19 from chest X-rays using Deep learning techniques(1)

Backlog

V

SH

Invite

Epic

Insights

View settings

Epic

Issues without epic

> Project Setup

> Infrastructure

> Data Collection

> Data Preprocessing

> Model Development

> model training

> Model deployment and Integration

> Model Testing

+ Create epic

DT Sprint 2 18 Oct – 22 Oct (2 issues)

Data Collection and Data Preprocessing

DT-6 Gather a diverse dataset of chest X-rays containing covid-19 DATA COLLECTION DONE 2 V

DT-7 resize chest X-rays images to a consistent size. Normalize pixel values DATA PREPROCESSING DONE 4 V

+ Create issue

DT Sprint 4 26 Oct – 31 Oct (1 issue)

model training

DT-14 assess the models performance using evaluation metrics MODEL TRAINING DONE 5 V

+ Create issue

DT Sprint 1 15 Oct – 18 Oct (2 issues)

project setup infrastructure

DT-18 create a development environment with the necessary tools and frameworks PROJECT SETUP DONE 1 SH

DT-19 plan the infrastructure for data storage, model training INFRASTRUCTURE DONE 2 SH

+ Create issue


 Detecting covid-19 from...
Software project

You're on the Free plan

[UPGRADE](#)

PLANNING

 Timeline

 Backlog

 Board

 Reports

+ Add view

DEVELOPMENT

 Code

 Project pages

 Add shortcut

 Project settings

Projects / Detecting covid-19 from chest X-rays using Deep learning techniques(1)

Backlog



Epic ▾

 Insights

 View settings

Epic ×

Issues without epic

>  Project Setup

>  Infrastructure

>  Data Collection

>  Data Preprocessing

>  Model Development

>  model training

>  Model deployment and Integration

>  Model Testing

+ Create epic

▼ DT Sprint 3 22 Oct – 26 Oct (1 issue)

0 0 5 Complete sprint ⋮

model development

 DT-20 developing a deep learning model using CNNs to accurately detect covid-19

MODEL DEVELOPMENT

DONE ▾

5



+ Create issue

▼ DT Sprint 5 31 Oct – 6 Nov (1 issue)

2 0 0 Start sprint ⋮

Model deployment and Integration

 DT-16 deploy the trained deep learning model as an API or Web Service

MODEL DEPLOYMENT ...

TO DO ▾

2



+ Create issue

▼ DT Sprint 6 6 Nov – 13 Nov (1 issue)

2 0 0 Start sprint ⋮

model testing

 DT-17 tested the model on a sequence dataset of chest x-rays to evaluate it's results

MODEL TESTING

TO DO ▾

2



+ Create issue

▼ Backlog (0 issues)

0 0 0 Create sprint

Your backlog is empty.

Timeline:

