

Project Planning Phase

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

Date	27-10-2023
Team ID	Team-592696
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	Mutina Sathwik
Sprint-1	Infrastructure	USN-2	Plan the infrastructure for data storage, model training, and web interface deployment	2	Medium	Kothoju Navyeesh
Sprint-2	Data collection	USN-3	Gather a diverse dataset of chest X-rays containing COVID-19, pneumonia, bronchitis, and normal cases.	2	High	Kanakala Hinduja
Sprint-2	Data preprocessing	USN-4	Resize chest X-ray images to a consistent size. Normalize pixel values to a standard range.	4	High	Buddepu Shiva
Sprint-3	Model Development	USN-5	Developing a deep learning model using CNNs to accurately detect COVID-19 from chest X-rays.	4	High	Kanakala Hinduja
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	Buddepu Shiva
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	Kothoju Navyeesh
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	Mutina Sathwik

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

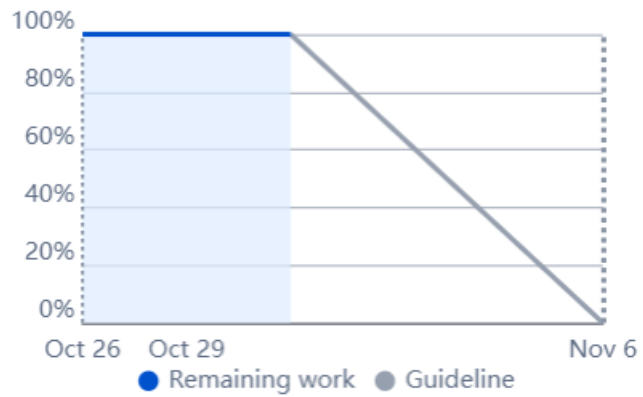


For Sprint 5:

Sprint burndown

BETA ? ▾

0 points done, 2 points to go



For Sprint 6:

Sprint burndown


BETA ? ▾

0 points done, 2 points to go



Board section:

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

 Detecting COVID-19 Fro...
Software project

PLANNING
Timeline
Backlog
Board

DEVELOPMENT
Code
Project pages
Add shortcut
Project settings

You're in a team-managed project
[Learn more](#)

Backlog
Board

DEVELOPMENT
Code
Project pages
Add shortcut
Project settings

You're in a team-managed project

Projects / Detecting COVID-19 From Chest X-Rays Using Deep Learning Techniques

All sprints

Epic ▼ Sprint ▼

GROUP BY: None ▼

Insights

View settings

Complete sprint ⋮

TO DO 2

Deploy the trained deep learning model as an API or web service. Create a user-friendly web interface for uploading chest X-ray images
MODEL DEPLOYMENT & INTEGRATION
DC19-38 2

Tested the model on a separate dataset of chest X rays to evaluate its performance and accuracy
MODEL TESTING
DC19-39 2

IN PROGRESS 1

Assess the model's performance using evaluation metrics. Ensure the model effectively distinguishes COVID-19 cases from other respiratory conditions.
MODEL TRAINING
DC19-37 5

DONE 5 ✓

Create a development environment with the necessary tools and frameworks for the COVID-19 detection project.
PROJECT SETUP
DC19-32 ✓ 1

Plan the infrastructure for data storage, model training, and web interface deployment
INFRASTRUCTURE
DC19-33 ✓ 2

Gather a diverse dataset of chest X-rays containing COVID-19, pneumonia, bronchitis, and normal cases.
DATA COLLECTION


DONE 5 ✓

normal cases.
DATA COLLECTION
DC19-34 ✓ 2

Resize chest X-ray images to a consistent size. Normalize pixel values to a standard range.
DATA PREPROCESSING
DC19-35 ✓ 4

Developing a deep learning model using CNNs to accurately detect COVID-19 from chest X-rays.
MODEL DEVELOPMENT
DC19-36 ✓ 4

Backlog section:





 **Detecting COVID-19 Fro...**
Software project

PLANNING
Timeline
Backlog
Board



DEVELOPMENT
Code
Project pages
Add shortcut
Project settings

Projects / Detecting COVID-19 From Chest X-Rays Using Deep Learning Techniques

Backlog





Epic ▾


 Insights  View settings


Epic ×


Issues without epic


>  **Project Setup**

>  **Infrastructure**

>  **Data collection**



>  **Data preprocessing**



>  **Model Development**

>  **Model Training**

▼ **Sprint 1** 15 Oct – 18 Oct (2 issues) 0 0 3 Complete sprint ⋮

Project Setup Infrastructure



 **DE19-32** Create a development environment with the necessary tools and fram... **PROJECT SETUP** **DONE** 1 



 **DE19-33** Plan the infrastructure for data storage, model training, and web interf... **INFRASTRUCT...** **DONE** 2 

+ Create issue

▼ **Sprint 2** 18 Oct – 22 Oct (2 issues) 0 0 6 Complete sprint ⋮

Data collection Infrastructure preprocessing

 **DE19-34** Gather a diverse dataset of chest X-rays containing COVID-19, pneum... **DATA COLLEC...** **DONE** 2 

 **DE19-35** Resize chest X-ray images to a consistent size. Normalize pixel values t... **DATA PREPRO...** **DONE** 4 

+ Create issue

Detecting COVID-19 Fro...

Software project

PLANNING

Timeline

Backlog

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

Projects / Detecting COVID-19 From Chest X-Rays Using Deep Learning Techniques

Backlog

MA

KN

KH

Epic

Insights

View settings

Epic

Infrastructure

Data collection

Data preprocessing

Model Development

Model Training

Sprint 3

22 Oct – 26 Oct (1 issue)

004

Complete sprint

Model Development

DC19-36

Developing a deep learning model using CNNs to accurately detect C...

MODEL DEVE...

DONE

4

KH

+ Create issue

Sprint 4

26 Oct – 31 Oct (1 issue)

050

Complete sprint

Model Training

DC19-37

Assess the model's performance using evaluation metrics. Ensure the ...

MODEL TRAI...

IN PROGRESS

5

+ Create issue

Detecting COVID-19 Fro...

Software project

PLANNING

Timeline

Backlog

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

Projects / Detecting COVID-19 From Chest X-Rays Using Deep Learning Techniques

Backlog

MA

KN

KH

Epic

Insights

View settings

Epic

Infrastructure

Data collection

Data preprocessing

Model Development

Model Training

Model deployment & Integration

Model testing

Sprint 5

31 Oct – 6 Nov (1 issue)

200

Complete sprint

Model deployment & Integration

DC19-38

Deploy the trained deep learning model as an API or web service. Cre...

MODEL DEPL...

TO DO

2

KN

+ Create issue

Sprint 6

6 Nov – 13 Nov (1 issue)

200

Complete sprint

Model testing

DC19-39

Tested the model on a separate dataset of chest X rays to evaluate its ...

MODEL TESTI...

TO DO


2

MA

+ Create issue

Backlog (0 issues)

Timeline:

 **Detecting COVID-19 Fro...**
Software project

PLANNING

Timeline

Backlog

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

Projects / Detecting COVID-19 From Chest X-Rays Using Deep Learning Techniques

Timeline

Status category ▾

Epic ▾

View settings

Sprints

DC19-1 Project Setup

DC19-2 Infrastructure

DC19-3 Data collection

DC19-4 Data preprocessing

DC19-5 Model Development

DC19-6 Model Training

DC19-7 Model deployment & Integration

DC19-8 Model testing

	SEP	OCT	NOV	DEC
Sprints		<div>Sprint 1</div> <div>Sprint 2</div> <div>Sprint 3</div> <div>Sprint 4</div> <div>Sprint 5</div> <div>Sprint 6</div>		
DC19-1 Project Setup		<div></div>		
DC19-2 Infrastructure		<div></div>		
DC19-3 Data collection		<div></div>		
DC19-4 Data preprocessing		<div></div>		
DC19-5 Model Development		<div></div>		
DC19-6 Model Training		<div></div>	<div></div>	
DC19-7 Model deployment & Integration			<div></div>	
DC19-8 Model testing			<div></div>	