

## Project Planning Phase

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

Date	26 October 2023
Team ID	592670
Project Name	Machine Learning Approach For Predicting The Rainfall
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	Daily rainfall predictions for the farmer's specific geographic location	USN - 1	I want to receive daily rainfall predictions for my area so that I can make informed decisions about when to plant or harvest my crops.	3	Low	Harsh Gupta
Sprint - 1	Real-time rainfall predictions	USN - 2	I want to receive real-time rainfall predictions to monitor and prepare for potential flooding events.	6	High	Chaitanya Kadam
Sprint - 1	Access to historical rainfall data	USN - 3	I want to access historical rainfall data and predictions to plan the distribution of water resources effectively.	4	High	Kesava Trinadh
Sprint - 2	System should offer advanced modelling tools	USN - 4	I want to have access to advanced modeling tools to improve the accuracy of rainfall predictions and provide more reliable forecasts to the public.	4	Medium	Vanshika Patel
Sprint - 2	System should provide weekend rainfall predictions	USN - 5	I want to know the expected rainfall for the upcoming weekend in a specific location so that I can plan my outdoor activities accordingly.	3	Low	Harsh Gupta
Sprint - 3	Access to historical rainfall data and advanced modelling tools	USN - 6	I want to access historical rainfall data and prediction models to conduct climate change and weather pattern studies.	5	Medium	Vanshika Patel

**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	13	7 Days	18 Oct 2023	25 Oct 2023	20	18 Oct 2023
Sprint - 2	7	8 Days	26 Oct 2023	02 Nov 2023		
Sprint - 3	5	2 Days	3 Nov 2023	5 Nov 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)

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

$$AV = 29/20 = 1.45$$

## 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.

### Sprint progress



Done	In progress	Not started
54%	46%	0%

### Sprint burndown

BETA ?

7 points done, 13 points to go



Your sprint scope has increased by **20 points** ⓘ

Added

**0** points

🔼 5 issues

Removed

**0** points

🔽 0 issues

Modified

**+ 20** points

🔁 6 issues

## Epic progress ⓘ ▾


This sprint is working towards **1 epic**

SMAR-1 Access to historical rainfall data


53% done




## Board Selection:


**SMARTINTERNZ**  
Software project


You're on the Free plan


UPGRADE

PLANNING


Timeline


Backlog


Board


+ Add view

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

You're in a team-managed project

Projects / SMARTINTERNZ


All sprints

DT

H

C

VP



Epic ▾

Sprint ▾


TO DO


IN PROGRESS 2


DONE 3 ✓

+


▼ ⚡ SMAR-1 Access to historical rainfall data 3 issues TO DO


I want to receive real-time rainfall predictions to monitor and prepare for potential flooding events.  
 SMAR-4 6 C

I want to receive daily rainfall predictions for my area so that I can make informed decisions about when to plant or harvest my crops.  
 SMAR-3 ✓ 3 H

I want to access historical rainfall data and predictions to plan the distribution of water resources effectively.  
 SMAR-5 ✓ 4 DT

▼ ⚡ SMAR-11 System should provide weekend rainfall predictions 2 issues TO DO

I want to know the expected rainfall for the upcoming weekend in a specific location so that I can plan my outdoor activities accordingly.  
 SMAR-12 3 H

I want to have access to advanced modeling tools to improve the accuracy of rainfall predictions and provide more reliable forecasts to the public.  
 SMAR-10 ✓ 4 VP

## Backlog Selection:

Projects / SMARTINTERNZ
Backlog
...

DT

H

VP

C

Epic ▾

[Import work](#)
[Insights](#)
[View settings](#)

**Epic** ✕

Issues without epic

- > Access to historical rainfall data
- > System should provide weekend rainfall predictions
- > Access to historical rainfall data and advanced modelling tools

+ Create epic

▼ Sprint 1 18 Oct – 25 Oct (3 issues) 0 6 7 Complete sprint ...

Access to historical rainfall data

SMAR-3 I want to receive daily rainfall predictions for my area so that I can make informed decisions about when to plant or ...	ACCESS TO HISTORICAL...	DONE ▼	3	H
SMAR-5 I want to access historical rainfall data and predictions to plan the distribution of water resources effectively.	ACCESS TO HISTORICAL...	DONE ▼	4	DT
SMAR-4 I want to receive real-time rainfall predictions to monitor and prepare for potential flooding events.	ACCESS TO HISTORICAL...	IN PROGRESS ▼	6	C

+ Create issue

▼ Sprint 2 26 Oct – 2 Nov (2 issues) 0 3 4 Complete sprint ...

System should offer advanced modelling tools and should provide weekend rainfall predictions

SMAR-10 I want to have access to advanced modeling tools to improve the accuracy of rainfall predictions and provide more...	SYSTEM SHOULD PROV...	DONE ▼	4	VP
SMAR-12 I want to know the expected rainfall for the upcoming weekend in a specific location so that I can plan my outdoor...	SYSTEM SHOULD PROV...	IN PROGRESS ▼	3	H

+ Create issue

▼ Sprint 3 3 Nov – 5 Nov (1 issue) 5 0 0 Start sprint ...

Access to historical rainfall data and advanced modelling tools

SMAR-13 I want to access historical rainfall data and prediction models to conduct climate change and weather pattern studi...	ACCESS TO HISTORICAL...	TO DO ▼	5	VP
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+ Create issue

You're in a team-managed project
Learn more

# Timeline:

