Project Planning Phase

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

Date	22 November 2023
Team ID	PNT2022TMID-592056
Project Name	Project - Machine Learning Approach For Predictng The Rainfall
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	Accessible Forecasting	USN-1	As a farmer, I want daily rainfall predictions to plan my agricultural activities efficiently. The predictions should include rainfall intensity, duration, and probability, presented in a clear and user-friendly format.	5	High	Supraja & Aswini
Sprint-1	Data Integration	USN-2	As an agricultural organization, I want API access for seamless integration with the Dynamic Rainfall Prediction System to enhance decision-making. The API should provide endpoints for real-time data retrieval, historical data access, and support for customizable analytics.	8	High	Supraja & Aswini
Sprint-2	Early Warning System	USN-3	As a government agency, I want real-time alerts for extreme weather events to enable swift response and coordination. The alerts	13	Highst	Supraja & Aswini

			should be configurable based on predefined risk levels, and the system should prioritize critical weather conditions.			
Sprint-1	Data Licensing	USN-4	As a researcher, I want access to high-resolution meteorological data for climate studies and research. The data access should include a licensing mechanism, ensuring compliance with privacy and data-sharing standards.	3	Low	Supraja & Aswini
Sprint-4	Community Engagement	USN-5	As a community member, I want to actively participate in weather data collection and access educational resources.The platform should provide a user-friendly interface for data submission, educational content, and community-driven workshops.	3	Low	Supraja & Aswini
Sprint-2	Security and Compliance	USN-6	As a system administrator, I want robust security measures to ensure the confidentiality and integrity of user data. The security implementation should include encryption, secure coding practices, and regular audits for compliance.	8	High	Supraja & Aswini
Sprint-3	API Documentation	USN-7	As a developer, I want comprehensive API documentation to facilitate seamless integration with the Dynamic Rainfall Prediction System.The documentation should include clear explanations of endpoints, data formats, and authentication methods.	5	Medium	Supraja & Aswini
Sprint-2	Research Collaboration	USN-8	As a research institution, I want collaboration tools to engage in ongoing research efforts and contribute to climate	8	Medium	Supraja & Aswini

			studies.The collaboration interfaces should include data-sharing agreements, collaborative research spaces, and periodic workshops.			

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	20	6 Days	24 Oct 2022	29 Oct 2022	20	30-10-2023
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	18	06-11-2023
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	12	13-11-2023
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	10	20-11-2023

Velocity:

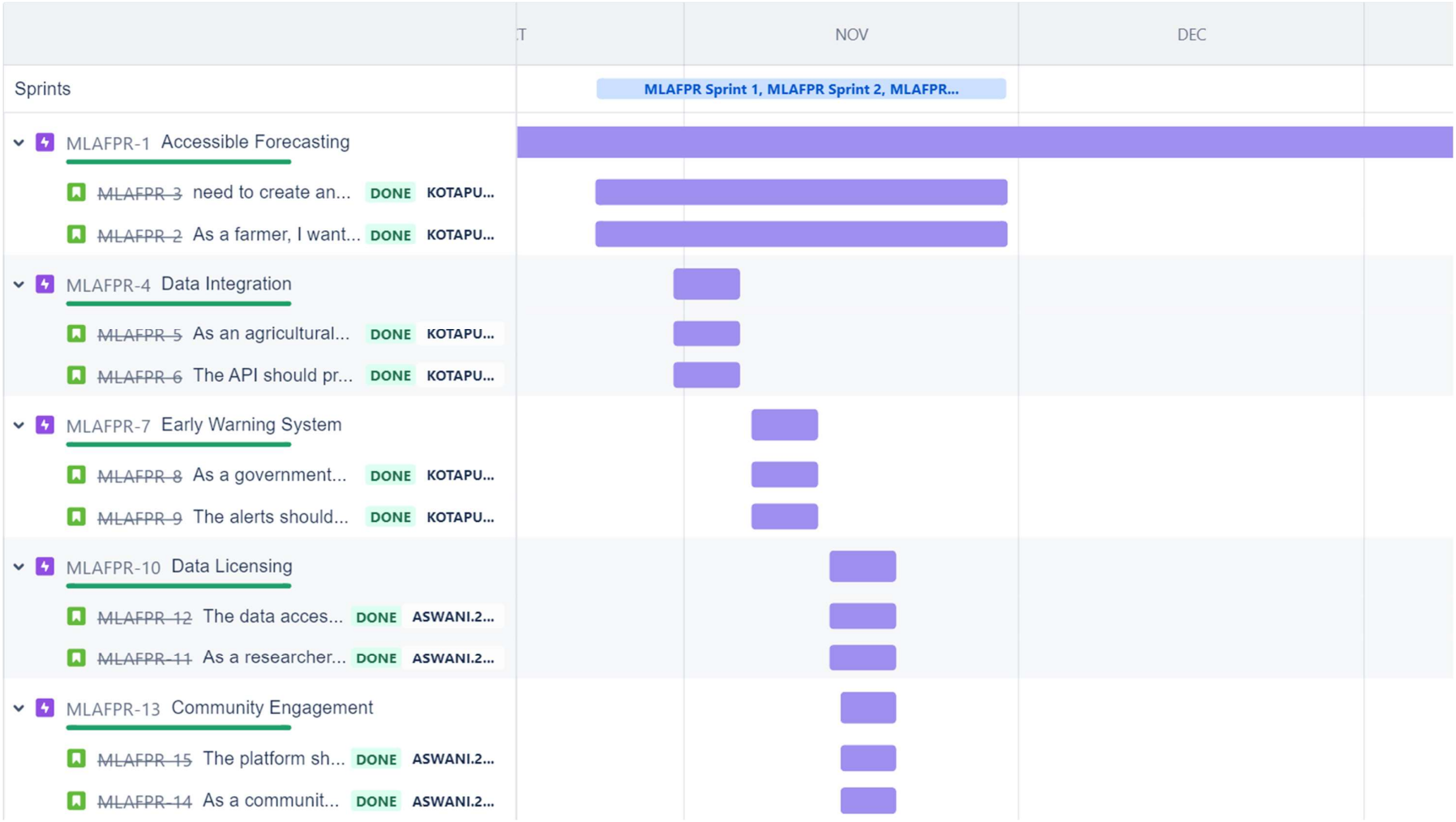
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

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.

As you progress through the sprints, the line should ideally move towards zero, indicating that you are burning down the remaining work. Adjust the spacing and symbols as needed for your specific tracking requirements. The slope of the line helps to assess whether the team is on track to complete the work by the end of the project.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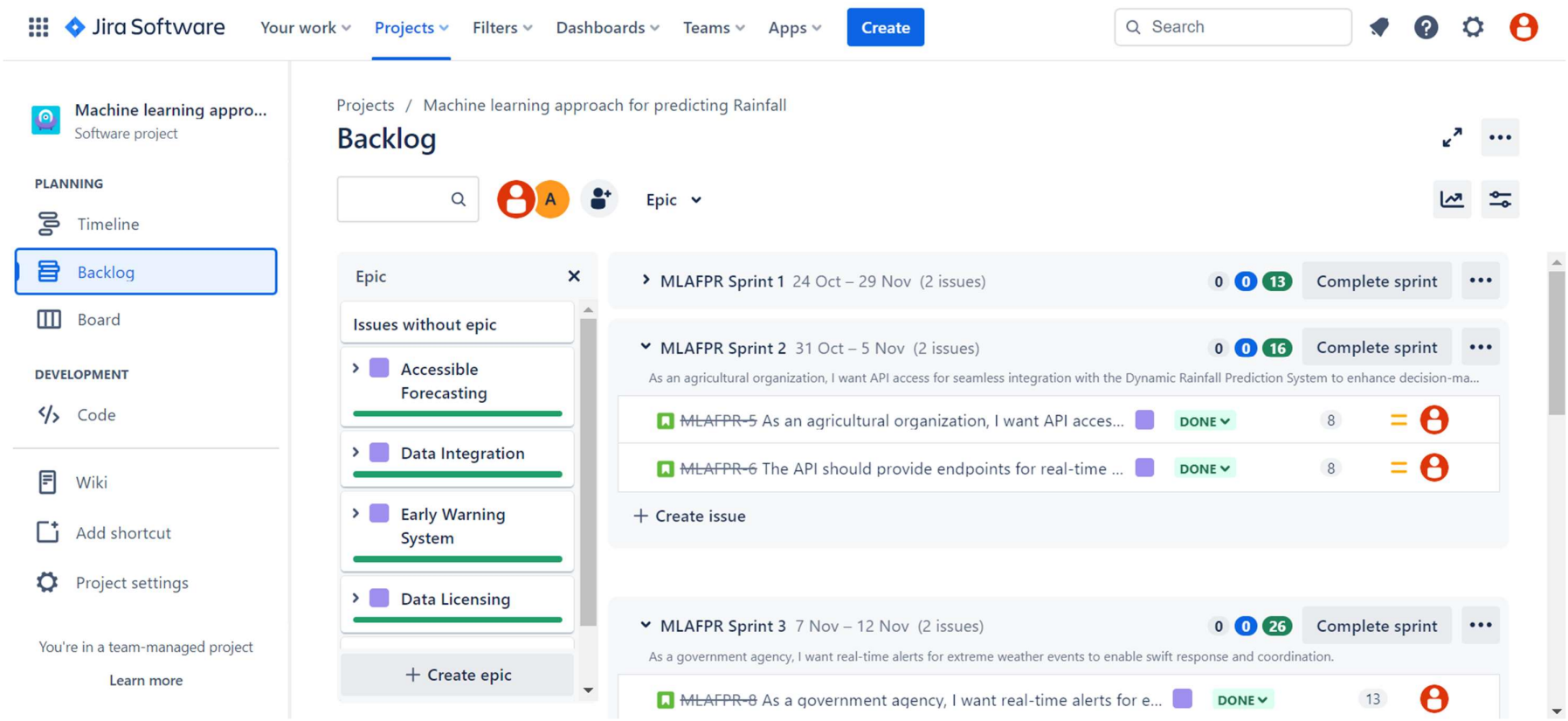
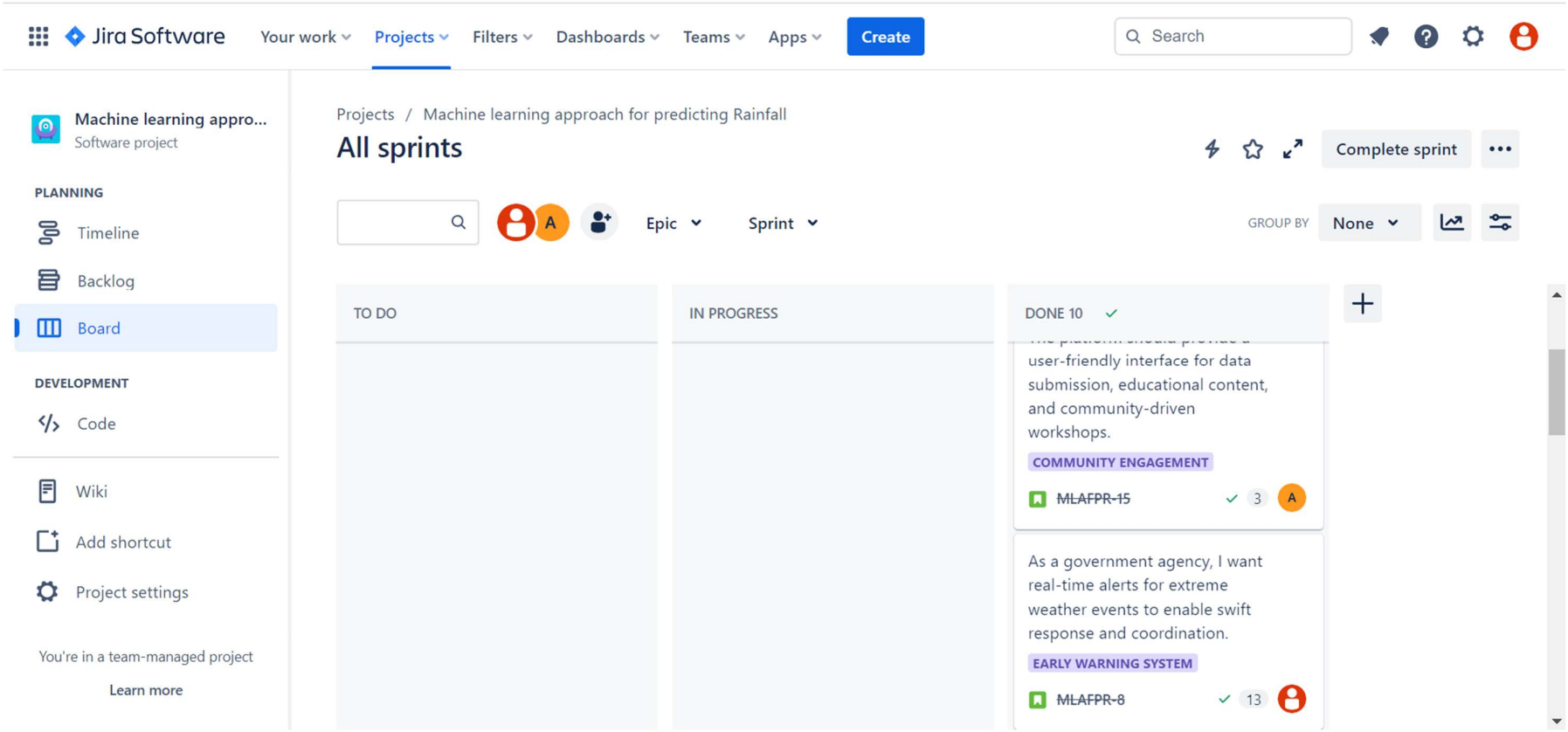
NOV
DEC
Sprints
MLAFPR Sprint 1, MLAFPR Sprint 2, MLAFPR...
MLAFPR-1 Accessible Forecasting
MLAFPR-3 need to create an... DONE KOTAPU...
MLAFPR-2 As a farmer, I want... DONE KOTAPU...
MLAFPR-4 Data Integration
MLAFPR-5 As an agricultural... DONE KOTAPU...
MLAFPR-6 The API should pr... DONE KOTAPU...
MLAFPR-7 Early Warning System
MLAFPR-8 As a government... DONE KOTAPU...
MLAFPR-9 The alerts should... DONE KOTAPU...
MLAFPR-10 Data Licensing
MLAFPR-12 The data acces... DONE ASWANI.2...
MLAFPR-11 As a researcher... DONE ASWANI.2...
MLAFPR-13 Community Engagement
MLAFPR-15 The platform sh... DONE ASWANI.2...
MLAFPR-14 As a communit... DONE ASWANI.2...


Jira Software
Your work
Projects
Filters
Dashboards
Teams
Apps
Create
Search
Machine learning appro...
Software project
PLANNING
Timeline
Backlog
Board
DEVELOPMENT
Code
Wiki
Add shortcut
Project settings
You're in a team-managed project
Learn more
Projects / Machine learning approach for predicting Rainfall
Backlog
Epic
Epic
Issues without epic
Accessible Forecasting
Data Integration
Early Warning System
Data Licensing
Create epic
MLAFPR Sprint 1 24 Oct – 29 Nov (2 issues)
0 0 13
Complete sprint
MLAFPR Sprint 2 31 Oct – 5 Nov (2 issues)
0 0 16
Complete sprint
As an agricultural organization, I want API access for seamless integration with the Dynamic Rainfall Prediction System to enhance decision-ma...
MLAFPR-5 As an agricultural organization, I want API acces...
DONE
8
MLAFPR-6 The API should provide endpoints for real-time ...
DONE
8
Create issue
MLAFPR Sprint 3 7 Nov – 12 Nov (2 issues)
0 0 26
Complete sprint
As a government agency, I want real-time alerts for extreme weather events to enable swift response and coordination.
MLAFPR-8 As a government agency, I want real-time alerts for e...
DONE
13


Jira Software
Your work
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Dashboards
Teams
Apps
Create
Search
Machine learning appro...
Software project
PLANNING
Timeline
Backlog
Board
DEVELOPMENT
Code
Wiki
Add shortcut
Project settings
You're in a team-managed project
Learn more
Projects / Machine learning approach for predicting Rainfall
All sprints
Complete sprint
Epic
Sprint
GROUP BY
None
TO DO
IN PROGRESS
DONE 10
user-friendly interface for data submission, educational content, and community-driven workshops.
COMMUNITY ENGAGEMENT
MLAFPR-15
3
As a government agency, I want real-time alerts for extreme weather events to enable swift response and coordination.
EARLY WARNING SYSTEM
MLAFPR-8
13

Sprint: MLAPPR Sprint 1

Issues for attention

BETA

There are no issues for attention right now. Once you have stuck, blocked or flagged issues, this is where you'll find them. Learn more

Sprint progress

100% done

Done	In progress	Not started
100%	0%	0%

Sprint burndown

13 points done, 0 points to go

1

Your sprint scope has increased by **13 points**

Added	Removed	Modified
0 points	**0** points	**+13** points
2 issues	0 issues	2 issues

Epic progress

This sprint is working towards **1 epic**

MLAFPR-1 Accessible Forecasting 100% done

Give feedback

Sprint burndown

3 points done, 3 points to go