Project Planning Phase
Project Planning

Date	15 November 2023
Team ID	Team-591594
Project Name	Project - Online Payments Fraud Detection using ML
Maximum Marks	8 Marks

Product Backlog

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection and Preprocessing	USN-1	As a data scientist, I want to preprocess the collected data to make it suitable for training.	4	High	
Sprint-1	Basic ML Model Development	USN-2	As a data scientist, I want to develop a basic ML model for fraud detection.	6	High	
Sprint-2	Model Enhancement and Validation	USN-3	As a data scientist, I want to enhance and validate the ML model for better accuracy.	5	Medium	
Sprint-2	Model Enhancement and Validation	USN-4	As a data scientist, I want to fine-tune the model parameters for optimal performance.	5	High	
Sprint-3	Saving Model and Web application development	USN-5	As a developer, I want to save the trained ML model for later use.	3	Low	
Sprint-3	Saving Model and Web application development	USN-6	As a developer, I want to develop a Flask web application for fraud detection.	7	High	
Sprint-4	Testing Web Application with Test User	USN-7	As a tester, I want to test the web application with simulated user interactions.	5	Medium	
Sprint-4	Testing Web Application with Test User	USN-8	As a tester, I want to identify and fix any bugs or issues in the web application.	5	Medium	

Sprint 1 27 Oct – 31 Oct (2 issues) — 0 0 10 — Complete sprint

Find the appropriate dataset for fraud detection , preprocess it and develop a basic machine learning model

~~SCRUM-3~~ As a data scientist, I want to preprocess the collected data to make it suitable for training.	DATA COLLECTION AN...	DONE	4
~~SCRUM-4~~ As a data scientist, I want to develop a basic ML model for fraud detection.	BASIC ML MODEL DEVE...	DONE	6

+ Create issue

Sprint 2 1 Nov – 6 Nov (2 issues) — 0 0 10 — Complete sprint

Enhancing the ML model for various use cases

~~SCRUM-9~~ As a data scientist, I want to fine-tune the model parameters for optimal performance.	MODEL ENHANCEMEN...	DONE	5
~~SCRUM-8~~ As a data scientist, I want to enhance and validate the ML model for better accuracy.	MODEL ENHANCEMEN...	DONE	5

+ Create issue

Sprint 3 7 Nov – 12 Nov (2 issues) — 0 0 10 — Complete sprint

Saving the model and developing the web app

~~SCRUM-10~~ As a developer, I want to save the trained ML model for later use.	SAVING MODEL AND W...	DONE	3
~~SCRUM-11~~ As a developer, I want to develop a Flask web application for fraud detection.	SAVING MODEL AND W...	DONE	7

+ Create issue

Sprint 4 13 Nov – 18 Nov (2 issues) — 0 10 0 — Complete sprint

Testing the web application with test user and optimizing according to their feedback

SCRUM-12 As a tester, I want to test the web application with simulated user interactions.	TESTING WEB APPLICA...	IN PROGRESS	5
SCRUM-13 As a tester, I want to identify and fix any bugs or issues in the web application.	TESTING WEB APPLICA...	IN PROGRESS	5

+ Create issue

Sprint Schedule

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	10	5 Days	27 Oct 2024	31 Oct 2024	10	
Sprint-2	10	5 Days	1 Nov 2024	06 Nov 2024	10	
Sprint-3	10	5 Days	07 Nov 2024	12 Nov 2024	10	
Sprint-4	10	5 Days	13 Nov 2024	18 Nov 2024	10	

Velocity

We had a 5-day sprint duration, and the velocity of the team is 10 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

Sprint 1 velocity =10/5 =2

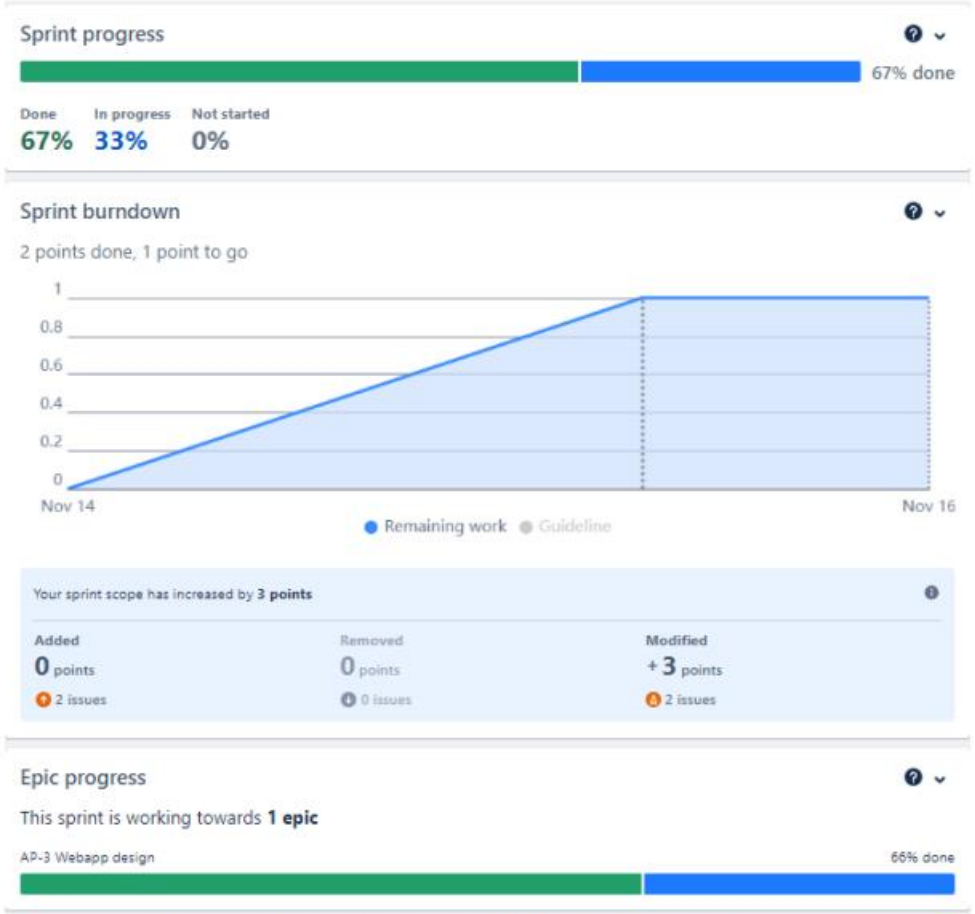
Sprint 2 velocity =10/5 =2

Sprint 3 velocity =10/5 =2

Sprint 4 velocity =10/5 =2

Burndown Chart

A burndown chart is a graph that shows the amount of work left to do versus the time it takes to complete it. It can be used to predict when all of the work will be completed.



Burndown chart and sprint insights on 15 Nov 2023