Project Planning Phase

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

Date	18-12-2023
Team ID	Team-591938
Project Name	Online Payments Fraud Detection Using MI
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	Data Collection and Preparation	USN-1	Identify relevant data sources. Extract, transform, and load (ETL) data. Handle missing or inconsistent data.	4	High	HARSH DEV
Sprint-2	Machine Learning Model Development	USN-2	Choose appropriate ML algorithms. Train and fine-tune the model. Evaluate model performance using relevant metrics.	4	MEDIUM	HARSH DEV
Sprint-3	Integration with Online Payment System	USN-3	Develop API endpoints for communication. Implement real-time data streaming for model updates. Ensure seamless integration without affecting payment flow.	5	High	HARSH DEV
Sprint-4	Real-time Monitoring and Alerts	USN-4	Set up monitoring infrastructure. Define thresholds for suspicious activity. Implement alerting mechanisms.	3	High	HARSH DEV

Sprint-5	User Interface for Monitoring and Decision Support	USN-5	Design and develop a dashboard for monitoring. Implement features for manual review and decision support.	2	medium	HARSH DEV
Sprint-6	Performance Optimization	USN-6	Identify bottlenecks in the system. Implement performance improvements. Conduct load testing to ensure scalability.	5	medium	HARSH DEV
Sprint-7	Training Data enhancemen	t USN-7	Implement feedback mechanisms for model improvement. Periodically update training data based on new patterns.	2	medium	HARSH
Sprint-8	Documentation	USN-8	Document the model architecture and parameters. Create user guides for system administrators and analysts. Conduct training sessions for relevant stakeholders.	3	High	dev

Sprint-9	Compliance and Security	USN-9	Conduct security audits.			
			Implement necessary compliance measures.	5	medium	harsh
			Regularly update security protocols.			Dev

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	4	15 Days	17 NOV 2023	05 DEC 2023	20	17 Nov 2023
Sprint-2	4	2 Days	18 Nov 2023	20 Dec 2023		17 Nov 2023
Sprint-3	5	13 Days	20 Nov 2023	04 Dec 2023		17 Nov 2023
Sprint-4	3	13 Days	17 Nov 2023	1 Dec 2023		17 Nov 2023
Sprint-5	2	13 Days	17 Nov 2023	1 Dec 2023		17 Nov 2023
Sprint-6	5	13 Days	17 Nov 2023	1 Dec 2023		17 Nov 2023
Sprint-7	2	13 Days	17 Nov 2023	1 Dec 2023		17 Nov 2023
Sprint-8	3	13 Days	17 Nov 2023	1 Dec 2023		17 Nov 2023
Sprint-9	5	13 Days	17 Nov 2023	1 Dec 2023		17 Nov 2023

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)

$$AV = 29/20 = 1.45$$

Burndown Chart:

A burndown 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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

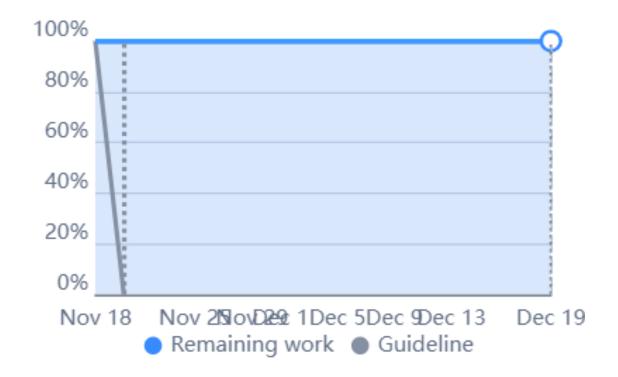
https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints https://www.atlassian.com/agile/project-

management/estimation https://www.atlassian.com/agile/tutorials/burndown-charts

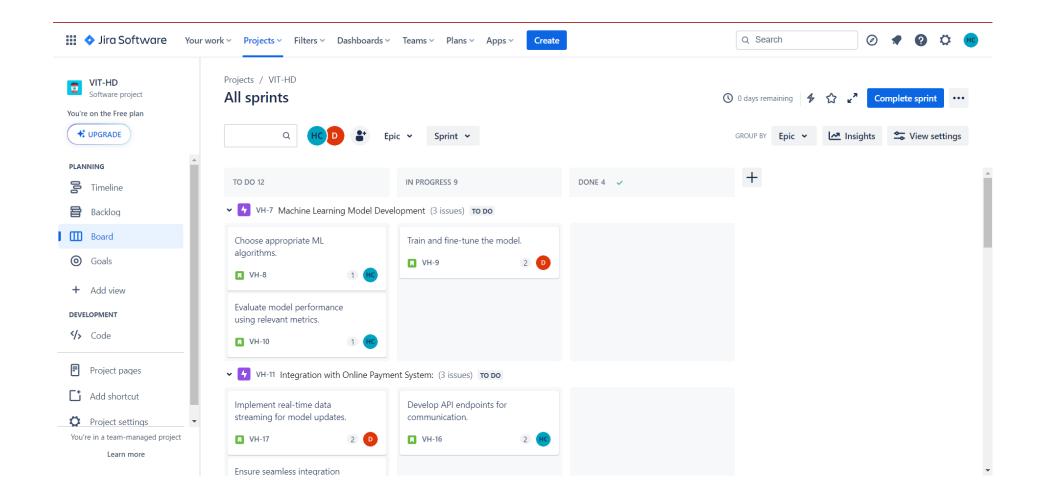
Burndown Chart:

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

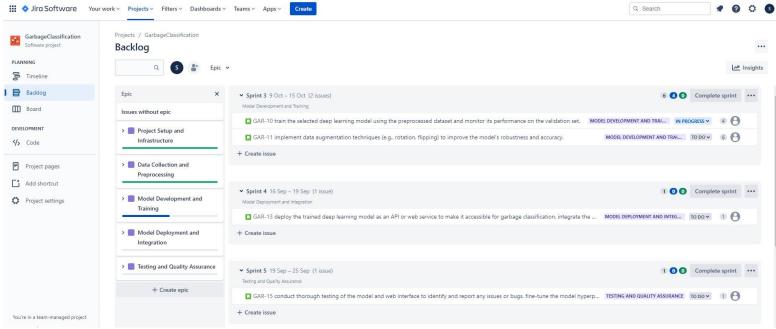


Board section.

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



Backlog section



Timeline

