Project Planning Phase

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

Date	25 October 2023
Team ID	Team-591884
Project Name	Hospital Readmission prediction using ML
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	Set up the environment with the requires tools and frameworks to start the hospital	2	High	V. Sukumar
	Infrastructure		readmission prediction project.			
Sprint-1	Development	USN-2	Make all necessary arrangements to complete	1	Medium	V. Sukumar
	environment		the project.			
Sprint-2	Data collection	collection USN-3	Gather a diverse dataset of readmissions	2	High	K. Lakshmi Prasanna
			containing different types of features for			
			training the Machine learning model.			
Sprint-3	Data preprocessing	USN-4	Preprocess the collected dataset by handling all	2	High	K. Lakshmi
			types of null values, missing values and			Prasanna, V. Sukumar
			selecting correct features for predicting and			
			selecting correct model.			
Sprint-3	Model development	elopment USN-5	Train the selected machine learning model	1	Medium	M. Sumanth
			using pre-processed dataset and monitor its			
			performance on the validation set.			
Sprint-4	Training	USN-6	Implement data augmentation techniques to	2	High	M. Sumanth
			improve the models robustness and accuracy.			

Sprint-5	Model deployment &	USN-7	Deploy the trained machine learning model as	1	Medium	V. Saikrupa
	Integration		an API or web service to make it accessible for			Anjali
			readmission prediction. Integrate the models			
			API into user-friendly web interface for users to			
			give input and predict .			
Sprint-5	Testing & quality	USN-8	Conduct thorough testing of the model and web	2	High	V. Saikrupa
	assurance		interface to identify and report any issues or			Anjali
			bugs. Optimize its performance based on user			
			feedback and testing results			

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	4 Days	18 October 2023	21 Oct 2023	20	21 Oct 2023
Sprint-2	5	3 Days	22 October 2023	25 Oct 2023	20	25 Oct 2023
Sprint-3	10	7 Days	26 October 2023	2 Nov 2023	20	2 Nov 2023
Sprint-4	1	3 Days	3 November 2023	6 Nov 2023	20	6 Nov 2023
Sprint-5	1	2 Days	7 November 2023	9 Nov 2023	20	9 Nov 2023

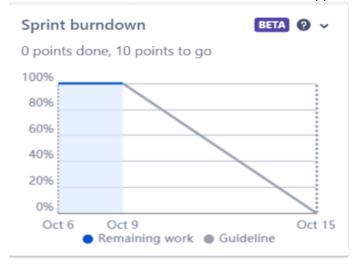
Velocity:

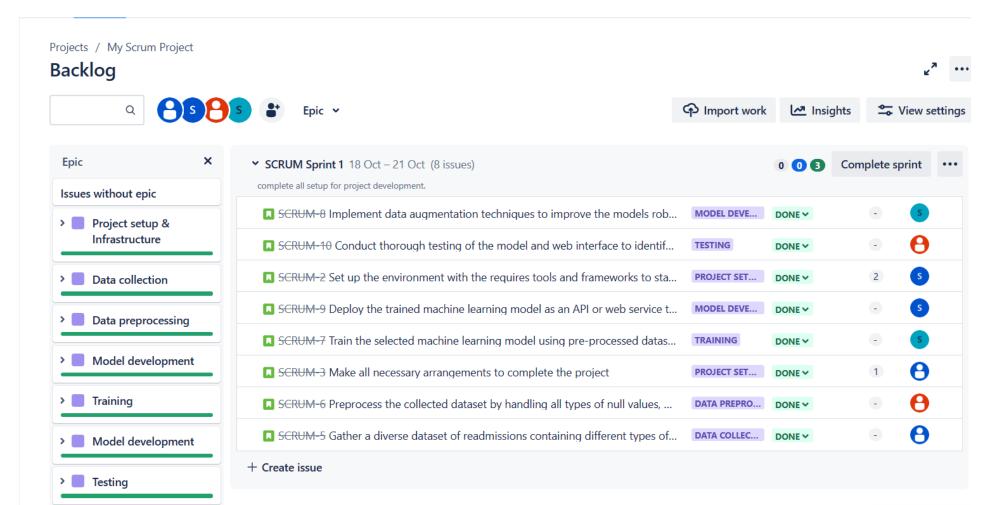
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

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.





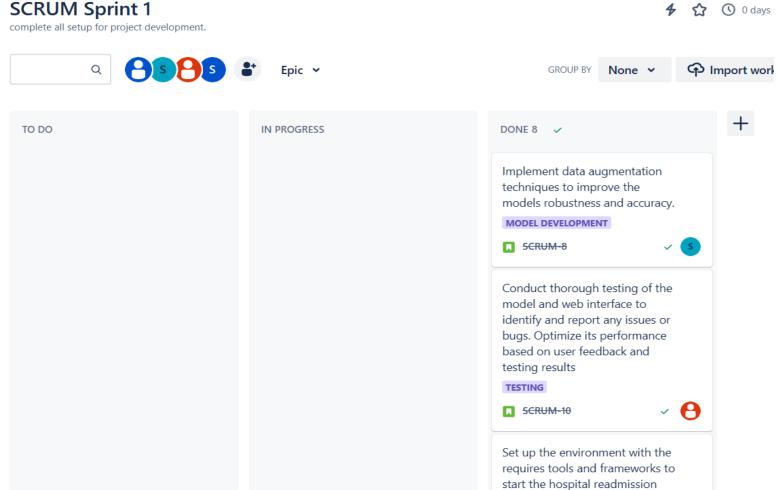
+ Create epic

> Backlog (() issues)





SCRUM Sprint 1



Projects / My Scrum Project Timeline **(**) Export a **88558** Status category 🕶 **∽** View set Epic 🕶 NOV DEC JAN '24 SC... Sprints > SCRUM-1 Project setup & Infrastructure > SCRUM-4 Data collection > SCRUM-11 Data preprocessing > SCRUM-12 Model development > SCRUM-13 Training

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Today

Weeks

Months

Quarters 1 2

Quickstart

> SCRUM-14 Model development

> SCRUM-15 Testing

+ Create Epic