

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID22283
Project Name	Project - Early Detection of Chronic kidney Disease using Machine Learning
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	10	High	Avinash
	Login	USN-2	As a user, I can log into the application by entering email & password	10	High	Gokul
Sprint-2	Data Cleaning	USN-3	Handling the missing values	4	High	Edwin Kingsten
		USN-4	Handling Outliers	3	High	Edwin Kingsten
		USN-5	Label Encoding	3	High	Edwin Kingsten
	ML Model Building	USN-6	Splitting dataset into train set and test set	2	High	Edwin Kingsten
		USN-7	Choosing Appropriate Model	3	High	Edwin Kingsten
		USN-8	Fitting and Evaluating the Model	5	High	Edwin Kingsten

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Entry Form	USN-9	As a user, I can enter the data to get the result	10	High	Gokul
	Train Model on IBM	USN-10	Register for IBM cloud	2	High	Manikandan
		USN-11	Creating Watson Studio Project	2	High	Manikandan
		USN-12	Creating Cloud Object Storage	2	High	Manikandan
		USN-13	Deploy Model on Watson Machine Learning	4	High	Manikandan
Sprint-4	Flask Integration	USN-14	Routing and rendering html files	3	High	Avinash
		USN-15	Connection with database	3	High	Avinash
		USN-16	Requesting ML token from IBM	5	High	Manikandan
		USN-17	Sending request to the deployed Model	5	High	Manikandan
	Result	USN-18	As a user, I can get the results and navigate back to entry form	4	High	Avinash

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	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022

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-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	15 Nov 2022

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)

$$AV = 20/5 = 4$$

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.