

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID22079
Project Name	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.	5	High	Team Lead Member 1
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	Member 2 Member 3
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Member 1 Member 4
Sprint-1		USN-4	As a user, I can register for the application through Gmail	5	Medium	Team Lead Member 4
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	5	High	Team Lead Member 1
Sprint-2	Dashboard	USN-6	As a user, I will enter the input data for disease prediction in the form.	6	Medium	Team Lead Member 3
Sprint-2	Prediction	USN-7	As a user, I will get the result of disease prediction in the dashboard.	4	High	Member 1 Member 4

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Result	USN-8	As a user, I will see whether I have chronic disease or not.	10	Medium	Team Lead Member 1
Sprint-3	Data Collection	USN-9	As a admin, I can collect and clean the dataset	7	High	Member 3 Member 2
Sprint-3	Data Analysis	USN-10	As the admin, I will develop modules to preprocess and store the data.	6	High	Team Lead
Sprint-3	Model Building	USN-11	As a admin, I will develop a model to predict and to show the resulted value.	7	High	Team Lead Member 3
Sprint-4	Application Building	USN-12	As a admin, I will develop a user friendly application.	10	High	Member 1 Member 4
Sprint-4	Train the Model on IBM	USN-13	Deploy the application in IBM cloud and make it available for use.	10	High	Team Lead Member 2

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 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 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)

$$AV = \text{Sprint duration} / \text{velocity} = 20 / 6 = 3.33$$

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.

