

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID04324
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.	7	High	Team Lead Team member-1
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	6	Medium	Team member-2 Team member-3
Sprint-1		USN-3	As a user, I can register for the application through Gmail	7	High	Team member-4 Team member-2
Sprint-2	Login	USN-4	As a user, I can log into the application by entering email & password	7	High	Team Lead Team member-3
Sprint-2	Dashboard	USN-5	As a user, I can view my past medical records and other personal information	6	Medium	Team member-3 Team member-4
Sprint-2	Entry details	USN-6	As a user, I must enter the basic medical test results which is being asked for detection of CKD	7	High	Team Lead Team member-2

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Result generation	USN-7	As a user, I can get my results in the form of report	7	High	Team member-2 Team member-4
Sprint-3	Contact	USN-8	As a customer care executive, I must be able to assist the users with their queries and problems that they face	6	Medium	Team member-2 Team member-3
Sprint-3	Data pre-processing	USN-9	As a administrator, I will collect the data from the users and use them for predicting CKD	7	High	Team Lead Team member-3
Sprint-4	Feature importance	USN-10	As a customer care executive, I should identify the most significant factors that lead to CKD based on the present trend	6	Medium	Team member-3 Team member-4
Sprint-4	Train the model	USN-11	As an administrator, I must use the most important and best suitable ML model for the detection of CKD	7	High	Team Lead Team member-4
Sprint-4	Deploy the model	USN-12	As an administrator, I will integrate the model with the website developed and display the results to the user	7	High	Team Lead Team 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)

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

Burndown Chart:

