

Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID49652
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	Clean the dataset	USN-1	The download data set is not suitable for training the machine learning model of randomness so we need to clean the dataset properly in order to fetch good results	20	High	Mari Kumari M, Jaslyn Angel D
Sprint-2	Model	USN-2	Model Building, Test the model, Model Evaluation and Save the model	20	High	Anusuya S, Mari Kumari M, Priyadharshini M
Sprint-3	Home page	USN-3	To build a simple home page which is having a logo, a home screen, our project title, and a prediction button.	6	Medium	Priyadharshini M, Anusuya S
Sprint-3	Prediction page	USN-4	To observe we have our /predict route with us which returns the form values to our flask application	8	Medium	Jaslyn Angel D, Anusuya S, Mari Kumari M
Sprint-3	Result Page	USN-5	Output is a categorical in nature here we are just performing if- else condition to the value which will be returned by the prediction page.	6	High	Jaslyn Angel D, Priyadharshini M,
Sprint-4	Run the app	USN-6	Running the web application by integrating all the created files	20	High	The team

Project Tracker, Velocity & Burn down 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 an 6-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)

$$AV = \text{sprint duration} / \text{velocity} = 6 / 20 = 0.3$$