

Project Planning Phase

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

Date	11 November 2022
Team ID	PNT2022TMID20879
Project Name	Project - Statistical Machine Learning Approaches to Liver Disease Prediction
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create a product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data preprocessing	USN-1	Using the dataset, we are splitting data to train and test to predict the value	10	High	Nithiya Devi, Meenakshi, Priyadarshini, Swathy, Swetha
Sprint-2	Model Building	USN-2	Using an algorithm, we are building a model. The algorithm used in this project is SVM, RF, and KNN to detect the best accuracy and save the model using pickle.	10	High	Nithiya Devi, Meenakshi, Priyadarshini, Swathy, Swetha
Sprint-3	Application Building	USN-3	We are creating an application to check whether the users have liver diseases or not.	9	High	Nithiya Devi, Meenakshi, Priyadarshini, Swathy, Swetha
	Home page	USN-4	The home page introduced liver disease detection.	7	High	Nithiya Devi, Meenakshi, Priyadarshini, Swathy, Swetha
	Prediction page	USN-5	On this page, we display the form and get input applications from the users telling them that they could consult a doctor or they are well and good.	7	Medium	Nithiya Devi, Meenakshi, Priyadarshini, Swathy, Swetha
Sprint-4	Flask App	USN-6	After creating html, we need to build python code on the flask.	7	Medium	Nithiya Devi, Meenakshi, Priyadarshini, Swathy, Swetha
	Register on IBM cloud	USN-7	Then register the IBM cloud to deploy the code	5	Low	Nithiya Devi, Meenakshi, Priyadarshini, Swathy, Swetha
	Integrate Code on IBM platform	USN-8	After finishing registration we need to train the model on IBM and integrate flask code to get output.	6	Low	Nithiya Devi, Meenakshi, Priyadarshini, Swathy, Swetha
	Result	USN-9	The application allows the user to view the result.	8	High	Nithiya Devi, Meenakshi, Priyadarshini, Swathy, Swetha

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	13 Days	29 Oct 2022	10 Nov 2022	20	11 Nov 2022
Sprint-2	20	11 Days	31 Oct 2022	10 Nov 2022	20	11 Nov 2022
Sprint-3	20	7 Days	6 Nov 2022	13 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	20 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:

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.

