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

Date	22 October 2022
Team ID	PNT2022TMID06408
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 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 to use the application by providing my email ID, password, and confirming password.	5	High	Yuvaraj S
Sprint-1		USN-2	As a user, I will receive confirmation registering to use the application	5	High	Vasanth Kumar S
Sprint-1	Login	USN-3	As a user, I can log into the application by entering registered email ID & password	10	Medium	Rebigon R
Sprint-2	Input Necessary Details	USN-4	As a user, I can give input test details to predict the occurrence of Liver Disease.	15	High	Yugesh C
Sprint-2	Data Pre-Processing	USN-5	Transform raw data into appropriate format for prediction.	5	High	Vasanth Kumar S
Sprint-3	Prediction of Liver Disease	USN-6	As a user, I can get the results of prediction of Liver Disease processed using Machine Learning algorithms.	15	High	Yugesh C
Sprint-3		USN-7	As a user, I can get accurate results of presence of liver disease.	5	Medium	Rebigon R
Sprint-4	Review	USN-8	As an admin, I reinforce the result of prediction.	20	High	Yuvaraj S

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	25	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	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)

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

Burndown Chart:

October/November 2022

Oct

-   10/23 - 10/28

Actual

Planned

1. Creation of WebApp
2. User Registration
3. User Login
4. Credentials Validation

1. Getting user input to give necessary details for prediction
2. Pre-processing the data

1. Deploying suitable prediction model for predicting the likeliness of liver disease with the given user input.
2. Display the predicted output

1. Product Launch
2. Getting User feedback to improve the performance of the webapp.

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Statistical Machine Learning Approaches to Liver Disease Prediction