PROJECT PLANNING PHASE

Date	3 November 2022
Team ID	PNT2022TMID48665
Project Name	Early Detection of Chronic Kidney Disease Using Machine Learning
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation

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	If the user needs to open into the system. He/she requires to register the mobile number.	2	High	Devi Sri.S Uma Nanthini.N Muthu Ranjani.V
Sprint-2	User Verification	USN-2	The user will receive OTP through SMS.	3	High	Blessy Jebamani.G Devi Sri.S
Sprint-1	Login	USN-3	After Successful registration the user can Log into the application by entering the registered Username and Password	2	High	Devi Sri.S Blessy Jebamani.G Muthu Ranjani.V Uma Nanthini.N

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Member
Sprint -1		USN-4	CAPTCHA will be provided to reduce the network traffic.	2	Medium	Devi Sri.S
Sprint -2	Dashboard	USN-5	After the verification, then the user gets into the dashboard.	3	Medium	Uma Nanthini.N Muthu Ranjani.V Blessy Jebamani.G
Sprint -3	Data collection	USN-6	Diagnosed clinical data will be entered by the user.	2	Medium	Devi Sri.S Muthu Ranjani.V
Sprint -4	Prediction result	USN-7	By the collected data the trained model will predict and display the result.	2	High	Uma Nanthini.N Blessy Jebamani.G
Sprint -4		USN-8	Based on the result the suggestion varies.	2	Low	Devi Sri.S Uma Nanthini.N Muthu Ranjani.V Blessy Jebamani.G
Sprint -1	Dataset Collection	USN-9	Chronic Kidney Disease dataset identification	2	High	Devi Sri.S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint -1	Clean the Dataset	USN-10	The dataset had to be cleaned. Cleaning process includes removing null values, Replacing missing values, segregation of test and train data	3	High	Blessy Jebamani.G
Sprint -2	Train ML Model in IBM	USN-11	The model will be trained in IBM.	4	High	Devi Sri.S Muthu Ranjani.V
Sprint -3	Model Testing	USN-12	The model will be tested using the test data	3	High	Uma Nanthini.N
Sprint -3	Integration	USN-13	HTML file and python Code Integration	2	Medium	Devi Sri.S Muthu Ranjani.V
Sprint -4	Deployment	USN-14	The model will be deployed in Cloud	3	Medium	Uma Nanthini.N Devi Sri.S Blessy Jebamani.G
Sprint -4	Further Clarification	USN-15	The problems which are faced by the user while using the application can be clarified	2	Medium	Devi Sri.S Uma Nanthini.N Muthu Ranjani.V Blessy Jebamani.G

Project Tracker, Velocity & Burndown Chart

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	**11**	6 Days	24 Oct 2022	29 Oct 2022	**11**	19 Nov 2022
Sprint -2	**10**	6 Days	31 Oct 2022	05 Nov 2022	**10**	05 Nov 2022
Sprint -3	**7**	6 Days	07 Nov 2022	12 Nov 2022	**7**	12 Nov 2022
Sprint -4	**9**	6 Days	14 Nov 2022	19 Nov 2022	**9**	19 Nov 2022

Velocity:

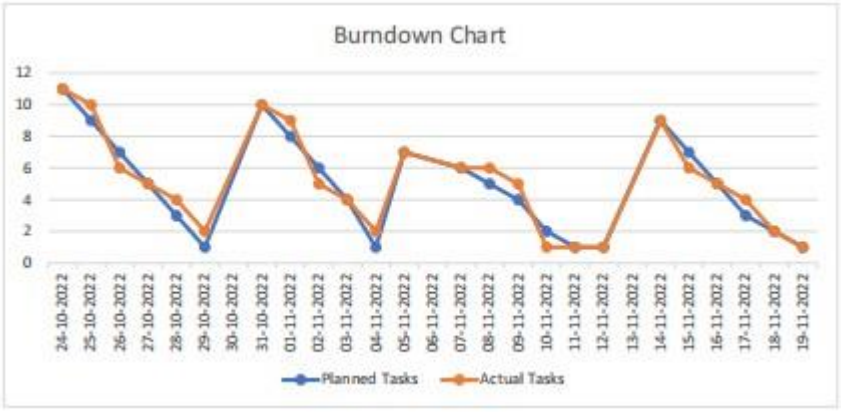
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day).

Sprint 1 AV = Sprint duration/velocity = 11/6 = 1.83
Sprint 2 AV = Sprint duration/velocity = 10/6 = 1.67
Sprint 3 AV = Sprint duration/velocity = 7/6= 1.16
Sprint 4 AV = Sprint duration/velocity = 9/6 = 1.5

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.



.