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

Date	15 November 2022
Team ID	PNT2022TMID10811
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	User Registration	USN-1	As a user, I can register for the application by entering my name, mobile number, email, password, and confirming my password.	10	High	SHANMUGAPRIYA K DEVADHARSHINI S ABINAYA S
Sprint-2		USN-2	As a user, I can register for the application through Gmail	5	Medium	SHIVANI N SHANMUGAPRIYA K PAVUN KAVITHA K
Sprint-1	User Confirmation	USN-3	As a user, I will receive confirmation email once I have registered for the application	10	High	SHANMUGAPRIYA K DEVADHARSHINI S ABINAYA S
Sprint-2		USN-4	As a user, I will receive confirmation otp to verify the identity.	5	High	SHIVANI N SHANMUGAPRIYA K PAVUN KAVITHA K
Sprint-2	Data Collection	USN-5	As a user, I will enter the input data for disease prediction in the form	10	High	SHIVANI N SHANMUGAPRIYA K PAVUN KAVITHA K

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Provide output to the user	USN-6	As a user, I will get the result of disease prediction in the dashboard.	10	High	DEVADHARSHINI S PADMAVATHY G PAVUN KAVITHA K
Sprint-3	Data Analysis	USN-7	As the admin, I will develop modules to preprocess and store the data.	10	High	DEVADHARSHINI S PADMAVATHY G PAVUN KAVITHA K
Sprint-4	Prediction of disease	USN-8	As the admin, I will build a Machine Learning model to predict the disease	10	High	SHANMUGAPRIYA K SASIPRIYA G ABINAYA S
Sprint-4	Final Delivery	USN-9	Deploy the application in IBM cloud and make it available for use.	10	High	SHANMUGAPRIYA K SASIPRIYA G ABINAYA 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		
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:
We have a 6-day sprint duration, and the velocity of the team is 20 (points per sprint). The team's average velocity (AV) per iteration unit (story points per day)

AV = Sprint duration / velocity = 20 / 6 = 3.33

Burndown Chart

October / November 2022

October		November		
10/23 - 10/29	10/30 - 11/05	11/06 - 11/12	11/13 - 11/18

Ideal timeline

Actual timeline

Creation of Webpages

User Registration

User Confirmation

Gmail Registration

OTP verification

Accept input data for disease prediction

Develop modules to preprocess and store the data

Provide output to the user in the webpage

Build Machine Learning model to predict the disease

Deploy the application in IBM cloud for final delivery