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

Date	18 October 2022
Team ID	PNT2022TMID25581
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 User Story User Story / Task Requirement (Epic) Number		Story Points	Priority	Team Members	
Sprint-1	Data Collection	Task-1	To build the machine learning model, we begin with the process of downloading the dataset and then perform data analysis	4	Low	Anupriya S Anujha R
Sprint-1	Data Analysis	Task-2	We import the required libraries and then perform data analysis on the given dataset.	3	Medium	Anujha R Anupriya S
Sprint-1	Data Pre-processing	Task-3	Data cleaning, handling missing values and performing label encoding.	8	Medium	Anujha R Anupriya S
Sprint-1	Building Login Page	USN-1	i s		High	Anujha R Anupriya S
Sprint-2	Register Page	USN-2	As a new user, I can register for the application 5 through email.		High	Nithiya N Prithica G
Sprint-2	Splitting the dataset	Task-4	Splitting dataset into train and test split. 3		Medium	Nithiya N Prithica G
Sprint-2	Building the Model	Task-5	Build three different ML models for classification and prediction.		High	Prithica G Nithiya N
Sprint-3	Home Page	USN-3	As a user, I can view the symptoms of CKD and test vitals required for its prediction.		Medium	Anupriya S Nithiya N
Sprint-3	Comparing different ML Models	Task-6	Evaluating each model and choosing the one with better accuracy.	3	Low	Nithiya N Anupriya S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Creating User Database	Task-7	Storing the user login details in the database.	12	High	Anupriya S Nithiya N
Sprint-4	Prediction Page	USN-4	As a user, I can view the test results.	5	Low	Anujha R Prithica G
Sprint-4	Train model on IBM Cloud	Task-8	Train the ML model on IBM Watson.	7	Medium	Prithica G Anujha R
Sprint-4	Flask Integration	Task-9	Integrating the HTML files with the ML model.	8	High	Anujha R Prithica G

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	7 Days	15 Oct 2022	21 Oct 2022	20	16 Nov 2022
Sprint-2	20	6 Days	22 Oct 2022	27 Oct 2022	20	16 Nov 2022
Sprint-3	20	6 Days	28 Oct 2022	02 Nov 2022	20	17 Nov 2022
Sprint-4	20	6 Days	03 Nov 2022	08 Nov 2022	20	17 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)

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