Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID53042
Project Name	Detection of Parkinson's 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	Registration	USN-1	As a user, I can register for the application by entering my email, username, roll number password	2	High	Digant Mehul Gandhi & Pratishtha
Sprint-1	Registration	USN-2	As a user, I can login into the application using username and password	2	High	Digant Mehul Gandhi
Sprint-1	User Action	USN-3	As a user, I should be able to change my password	2	High	Digant Mehul Gandhi
Sprint-1	Dashboard	USN-4	As a user, I can access my dashboard page	3	Medium	Digant Mehul Gandhi & Pratishtha
Sprint-2	User Action	USN-5	As a user, I can access the dataset of multiple hand drawn spiral and wave images	2	Medium	Pratishtha & Vasundhhara Singh Katoch
Sprint-2	Model Enhancement	USN-6	As a user, I need a machine learning model that can pre-process the images	2	High	Pratishtha & Vasundhhara Singh Katoch
Sprint-2	Model Enhancement	USN-7	As a user, I need a machine learning model that can predict the disease with low error and better accuracy	3	High	Abhay Kumar Tiwari & Vasundhhara Singh Katoch

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Cloud Deployment	USN-8	As a user, I need the application to be accessible all over the world	5	High	Vasundhhara Singh Katoch
Sprint-3	Dashboard	USN-9	As a user, I can upload the image to check the prediction	2	High	Abhay Kumar Tiwari & Vasundhhara Singh Katoch
Sprint-3	Prediction	USN-10	As a user, I can get the predicted results from the cloud	1	High	Abhay Kumar Tiwari
Sprint-4	Dashboard	USN-11	As a user, I can check the suggestions if prediction shows “Has Parkinson”	2	High	Digant Mehul Gandhi & Abhay Kumar Tiwari
Sprint-4	Dashboard	USN-12	As a user, I can read more about the disease	1	Low	Pratishtha
Sprint-4	Launch Application	USN-13	As a user, I can launch the application and generate the prediction	5	High	Digant Mehul Gandhi & Abhay Kumar Tiwari

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	9	6 Days	24 Oct 2022	29 Oct 2022	9	29 Oct 2022
Sprint-2	7	6 Days	31 Oct 2022	05 Nov 2022	7	05 Nov 2022
Sprint-3	8	6 Days	07 Nov 2022	12 Nov 2022	8	12 Nov 2022
Sprint-4	8	6 Days	14 Nov 2022	19 Nov 2022	8	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)

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

Average Velocity:
Average Velocity per sprint = (9 + 7 + 8 + 8)/4 = 8
Story points per day/Average Velocity = 8/6 = 1.334

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.

We will upload the same to the Jira Files directory.