Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID24158
Project Name	Project - Detecting 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-4	Viewing Home Page	USN-1	As a user, I can view the home page which hasa description of the disease as well as options to sign up or log in.	2	Low	Aswin kumarVamsi Vishnu Chethan
Sprint-4	Sign Up Page	USN-2	As a user, I can register for the application byentering my name, phone number, email, password, and confirming my password.	2	High	Aswin kumarVamsi Vishnu Chethan
Sprint-4	Authorization	USN-3	As a user, I will receive confirmation email oncel have registered for the application.	2	High	Aswin kumarVamsi Vishnu Chethan
Sprint-4	Login	USN-4	As a user, I can log into the application byentering email & password.	2	High	Aswin kumarVamsi Vishnu Chethan
Sprint-4	Dashboard	USN-5	As a user, I can upload images of spiral andwave to the website in order to receive a diagnosis.	2	High	Aswin kumarVamsi Vishnu Chethan

Sprint-4	Results	USN-6	As a user, I can receive a diagnosis in additionto recommendations on what I should do now.	2	High	Aswin kumarVamsi Vishnu Chethan

Sprint	**Functional Requirement (Epic)**	**User Story Number**	**User Story / Task**	**Story Points**	**Priority**	**Team Members**
Sprint-1	Data Collection	USN-7	I need to collect data (images of spirals and waves drawn by healthy people and Parkinson'spatients).	5	High	Aswin kumarVamsi Vishnu Chethan
Sprint-1	Data Pre-Processing	USN-8	I need to clean my data and prepare it for modelbuilding by doing pre-processing activities such as resizing, converting from RGB to grayscale etc.	5	High	Aswin kumarVamsi Vishnu Chethan
Sprint-2	Model Building 1	USN-9	I need to build the model using Random ForestClassifier for spiral images.	8	High	Aswin kumarVamsi Vishnu Chethan
Sprint 2	Model Building 2	USN-10	I need to build the model using K NearestNeighbour (KNN) for wave images.	8	High	Aswin kumarVamsi Vishnu Chethan
Sprint-3	Model Deployment	USN-11	I need to deploy the Machine Learning modelthat was built.	13	Medium	Aswin kumarVamsi Vishnu Chethan
Sprint-4	Application Building	USN-12	I need to build the website for the applicationusing HTML, CSS and link it to the model.	8	High	Aswin kumarVamsi Vishnu Chethan

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	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	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:

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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts