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

Date	18 Novemeber 2022
Team ID	PNT2022TMID592236
Project Name	Project - Fundus Image Analysis for Early Detection of Diabetic Retinopathy
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, password, and confirming my password.	2	High	Development Team
Sprint-1	Registration	USN-2	As a user, I will receive a confirmation email once I have registered for the application.	1	High	Development Team
Sprint-1	Registration	USN-3	As a user, I can register for the application through Gmail.	2	Medium	Development Team
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password.	1	High	Development Team
Sprint-2	Data Collection and Preprocessing	USN-5	As a user, I can upload retinal images for analysis.	3	High	Development Team
Sprint-3	Machine Learning Model Development	USN-6	As a user, I can view the progress of the Model training process.	2	High	Development Team
Sprint-4	User Interface Design	USN-7	As a user, I can easily navigate and interact with the application.	3	High	Development Team
Sprint-5	Testing and Quality Assurance	USN-8	As a user, I can be assured that the application is reliable and accurate.	2	High	Quality Assurance Team

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	6	2 Days	09 Nov 2023	10 Nov 2023	6	10 Nov 2023
Sprint-2	3	3 Days	11 Nov 2023	13 Nov 2023	3	13 Nov 2023
Sprint-3	2	3 Days	14 Nov 2023	16 Nov 2023	2	16 Nov 2023
Sprint-4	3	2 Days	17 Nov 2023	18 Nov 2023	3	18 Nov 2022
Sprint-5	2	2 Day	19 Nov 2023	20 Nov 2023	2	20 Nov 2023

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