Project Planning Phase

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

Date	18 October 2022
Team ID	Team-592761
Project Name	Detection of Covid-19 from chest X-rays using Deep 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	Data Collection and Preprocessing	USN-1	As a developer, I need to create a script for X-ray data collection and preprocessing to prepare the dataset for training.	3	High	Harish
Sprint-1	Model Development	USN-2	As a data scientist, I need to develop a deep learning model using transfer learning algorithms for chest X-ray image analysis.	5	High	Kanishka
Sprint-2	Model Optimization	USN-3	As a machine learning engineer, I need to optimize the deep learning model to improve accuracy and efficiency.	5	High	Harish

Sprint-3	Real-time diagnosis	USN-4	As a user, I want the diagnostic tool to provide real-time diagnosis from chest X-ray images.	8	High	Harish, Kanishka

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 2023	29 Oct 2023	20	29 Oct 2023
Sprint-2	20	6 Days	31 Oct 2023	05 Nov 2023	20	05 Nov 2023
Sprint-3	20	6 Days	07 Nov 2023	12 Nov 2023	20	12 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)

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

Sprint Duration=6 days
Velocity of the team=20 (points per sprint)

Average velocity (AV) per iteration unit (story points per day): $$AV = \frac{\text{Velocity}}{\text{Sprint Duration}} = \frac{20}{06} = 3.33$$