Project Planning Phase

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

Date	12th November 2023
Team ID	Team-592335
Project Name	**"Deep Learning Model for Eye Disease Prediction"**
Maximum Marks	8 Marks

Sprint Planning and Stories:

Sprint-1 Model Training:

Sprint Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Model Training	USN-1	As a model developer, I can preprocess and train the deep learning model on a labeled dataset for Normal, Cataract, Diabetic Retinopathy, and Glaucoma.	8	High	Data Science Team (stuti, Prajwal)
Model Training	USN-2	As a model developer, I can evaluate and fine-tune the model for better accuracy.	5	High	Data Science Team

Sprint-2 Model Integration:

Sprint Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Model Integration	USN-3	As a developer, I can integrate the trained model into the application for real-time predictions.	5	Medium	Development Team (Anagha, Love)
Model Integration	USN-4	As a developer, I can implement an API for the model to accept and return predictions.	3	Medium	Development Team

Sprint-3 User Interface Enhancement:

Sprint Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
User Interface Enhancement	USN-5	As a UX designer, I can enhance the user interface to display prediction results in an intuitive way.	3	Low	UX Design Team (Prajwal, Love)

Sprint Schedule:

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	13	8 Days	01 Dec 2022	01 Nov 2023		
Sprint-2	8	6 Days	10 Dec 2022	12 Nov 2023		
Sprint-3	6	5 Days	17 Dec 2022	19 Nov 2023		

Velocity Calculation:

To calculate the Average Velocity (AV) based on the provided Sprint Schedule table, you can use the following formula:

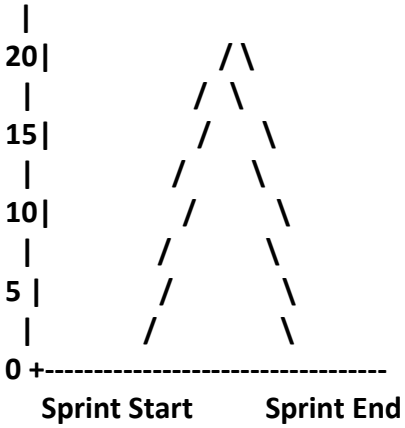
$$AV = \frac{sprint\ duration}{velocity}$$

Let's calculate the Average Velocity for each sprint:

1. **Sprint-1: 13 Story Points** / **8 Days** ≈ **1.625** points per day
2. **Sprint-2: 8 Story Points** / **6 Days** ≈ **1.333** points per day
3. **Sprint-3: 6 Story Points** / **5 Days** = **1.2** points per day

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.



Reference:

1. **Sprint Planning and Stories:**
    - **Reference for Agile Development and User Stories: Agile Alliance**
2. **Sprint Schedule and Burn-down Chart:**
    - **Reference for Scrum and Sprint Planning: Scrum Guide**
    - **Reference for Burn-down Charts: Atlassian Agile Coach**
3. **Deep Learning Model Development:**
    - **Reference for Deep Learning Models: Deep Learning Book by Ian Goodfellow and Yoshua Bengio**
    - **Reference for TensorFlow: TensorFlow Documentation**
    - **Reference for PyTorch: PyTorch Documentation**