Project Planning Phase

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

Date	29 October 2023
Team ID	Team-592792
Project Name	Deep Learning Model for Eye Disease Prediction
Maximum Marks	4 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks) :

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Project Setup & Infrastructure	USN-1	Set up the development environment with the required tools and frameworks for Eye Disease Prediction	4	High	Vyas
Sprint-2	Data Collection & Preprocessing	USN-2	Gather a diverse dataset of eye disease images for training the deep learning model	4	High	Hemika
Sprint-2	Data Preprocessing	USN-3	Preprocess the collected dataset by resizing images, normalizing pixel values, splitting it and doing image augmentation	6	High	Hemika
Sprint-3	Model Training	USN-4	Split dataset and train the models (Inception V3, VGG19, and RESNET 50)	6	High	Praneeth
Sprint - 3	Model Evaluation	USN-4	Evaluate model performance on the validation set and select the best model among Inception V3, VGG19, and RESNET 50 models	7	High	Praneeth
Sprint-3	Model Development	USN-5	Use the selected deep learning model for prediction and monitor its performance on new data	2	High	Yashodhan
Sprint-4	Model Deployment & Integration	USN-7	Deploy the trained deep learning model as an API or web service and integrate it into a web interface	4	Medium	Yashodhan
Sprint-5	Testing & Quality Assurance	USN-8	Conduct thorough testing, fine-tune model hyperparameters, and optimize performance	3	Medium	Vyas

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	4	5 Days	18 Oct 2023	22 Oct 2023	4	22 Oct 2022
Sprint-2	10	6 Days	23 Oct 2023	28 Oct 2023	10	28 Oct 2022
Sprint-3	15	6 Days	29 Oct 2023	3 Nov 2023	13	3 Nov 2023
Sprint-4	4	4 Days	4 Nov 2023	7 Nov 2023	3	7 Nov 2023
Sprint-5	3	2 Days	8 Nov 2023	9 Nov 2023	0	9 Nov 2023

Velocity:

$$Average\ Velocity = \frac{Sprint \text{ Total Story points Completed} Duration}{\text{Total Duration of Sprints}}$$

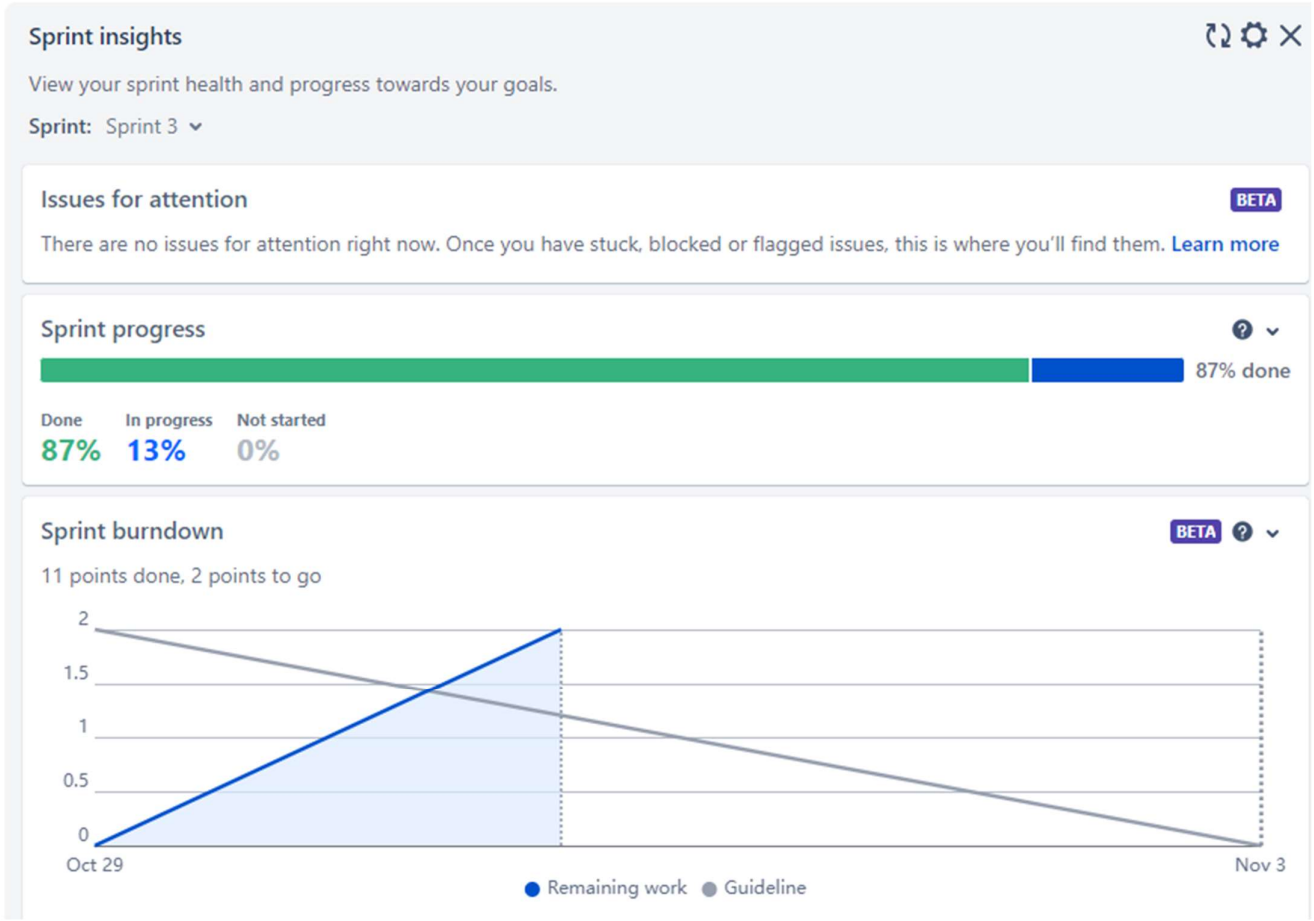
Total Story points Completed = 4+10+13+3 = 30

Total Duration of Sprints =5+6+6+4= 21

$$Average\ Velocity = \frac{30}{21} = \mathbf{1.42}$$

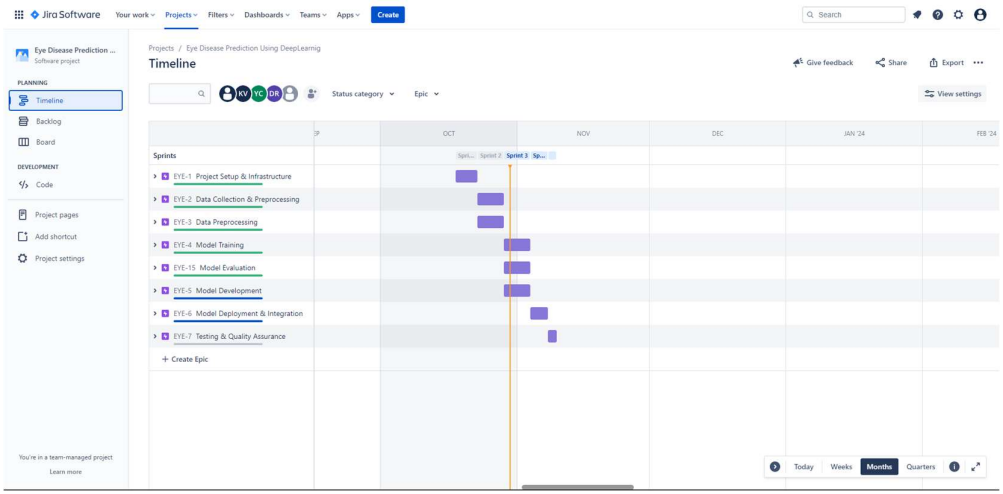
Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies suchas Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

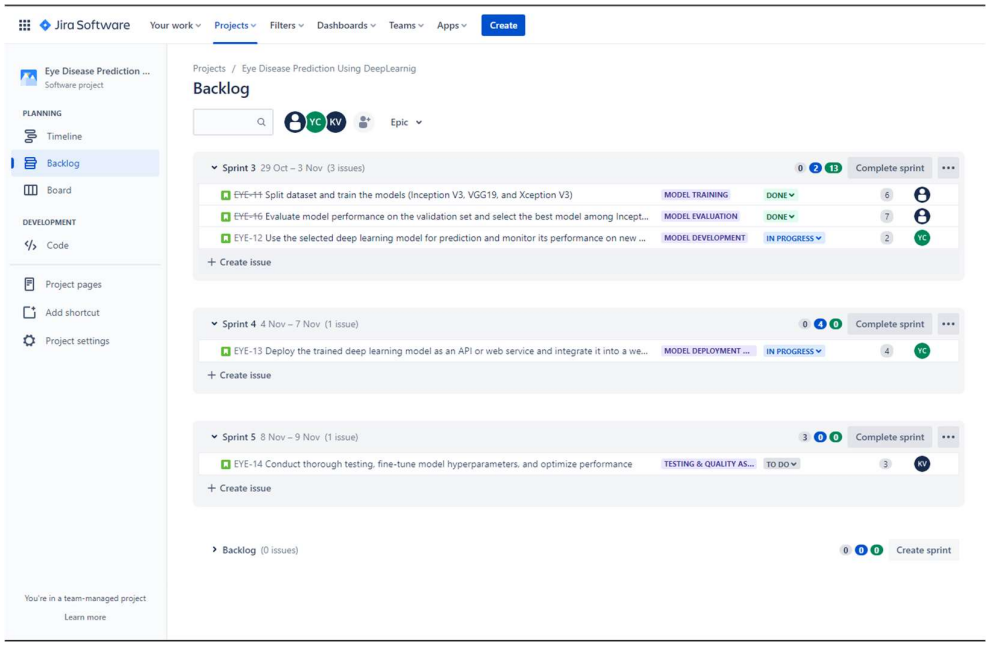


- **We have Completed Sprint 1 and 2 and Sprint 3 is Ongoing**

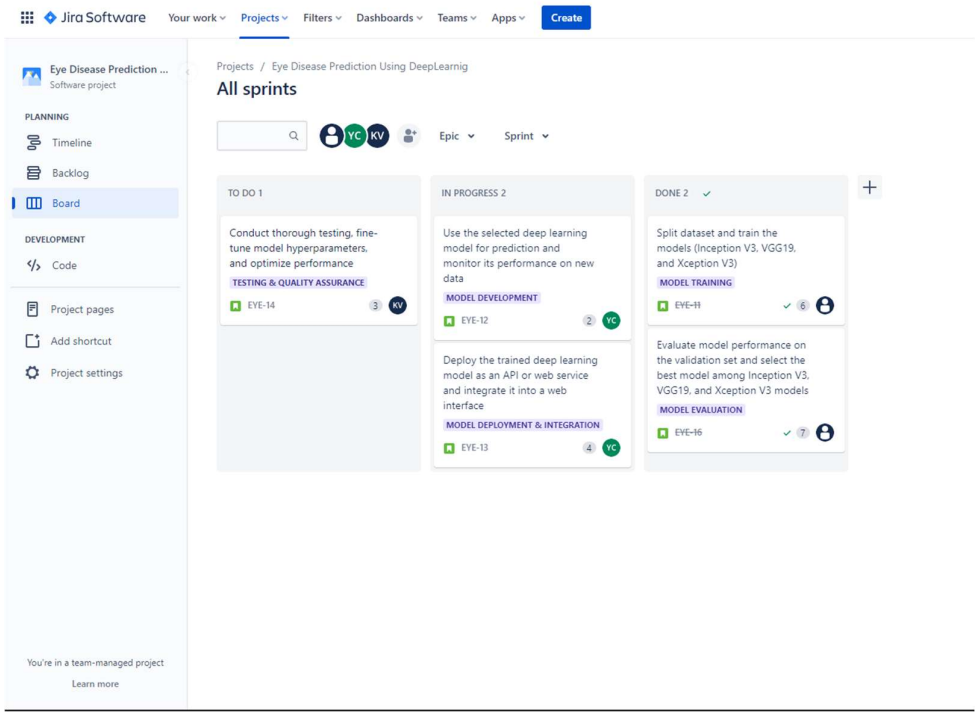
Timeline:



Backlog:



Board :



Reference:

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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