Project Planning Phase

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

Date	27 October 2023
Team ID	Team-593093
Project Name	Project – Eye Disease Prediction 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-1,2	Data Collection and Preprocessing	USN-1	As a Data Scientist, I want to Clean and preprocess the collected data, addressing issues like noise, artifacts, and inconsistent image resolutions.	15	High	Mundru Dharani Harshitha
Sprint-3,4	Model Architecture and Development	USN-2	As a Machine Learning Engineer, I want to Implement the selected model architecture using a deep learning framework (e.g., TensorFlow or PyTorch). Train the model on the preprocessed dataset, optimizing hyperparameters and incorporating data augmentation techniques to enhance generalization.	16	High	Bhavya Sri Duggina
Sprint-5,6	Model Evaluation and Optimization	USN-3	As a Machine Learning Engineer, I want to Fine-tune the model by adjusting hyperparameters, including learning rate and batch size, to improve its predictive accuracy. Implement techniques like dropout and batch normalization to prevent overfitting and improve generalization.	15	High	Harshith Maride

Sprint-7,8	Model Deployment and Integration	USN-4	As a Full Stack Developer, I want to Develop an API or web interface to enable users to submit images for disease prediction. Deploy the model on a cloud or server environment to make it accessible for real-time predictions.	10	Medium	Dushyanth Narendra, Bhavya Sri Duggina
Sprint-9,10	Testing and Evaluation	USN-5	As a Assurance Specialist, I want to test the track the model's performance, including prediction accuracy and response times. Set up automated alerting and errorhandling mechanisms to address issues in real-time.	8	Medium	Dharani Harshitha, Dushyanth Narendra, Bhavya Sri Duggina, Harshith Maride

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-1,2	15	1 Days	20 Oct 2023	20 Oct 2023	15	20 Oct 2023
Sprint-3,4	16	4 Days	21 Oct 2023	24 Oct 2023	16	24 Oct 2023
Sprint-5,6	15	2 Days	24 Oct 2023	25 Oct 2023	15	25 Oct 2023
Sprint-7,8	10	3 Days	25 Oct 2023	27 Oct 2023	10	27 Oct 2023
Sprint-9,10	8	1 Day	27 Oct 2023	27 Oct 2023	8	27 Oct 2023

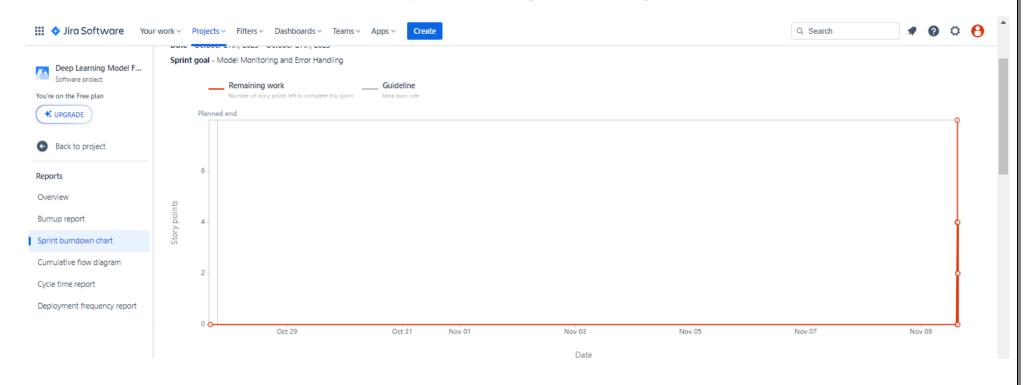
Velocity:
The team velocity of the 11-day sprint duration is:

Velocity = (15+16+15+10+8)/5 = 12.8

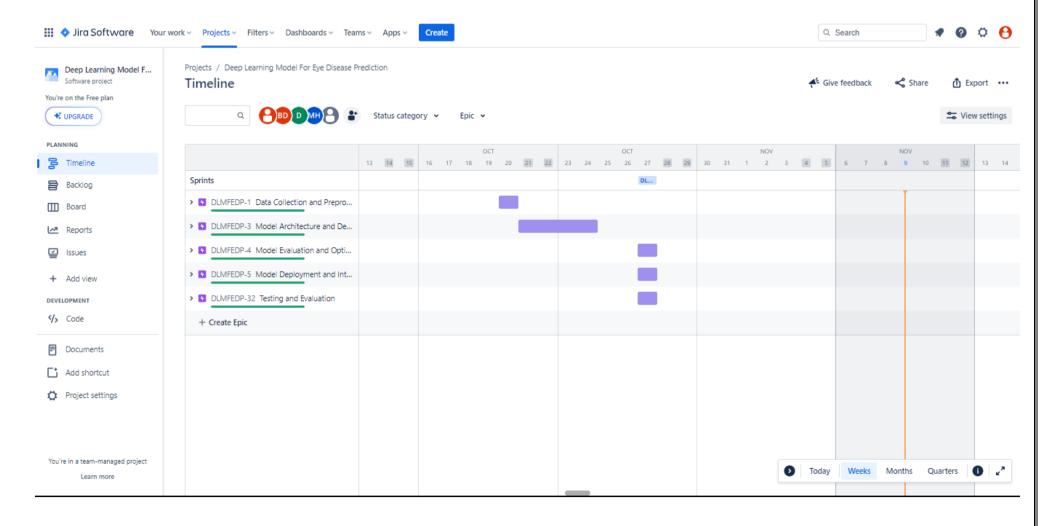
Average Velocity = Sprint Duration/Velocity =11/12.8 =0.86

Burndown Chart:

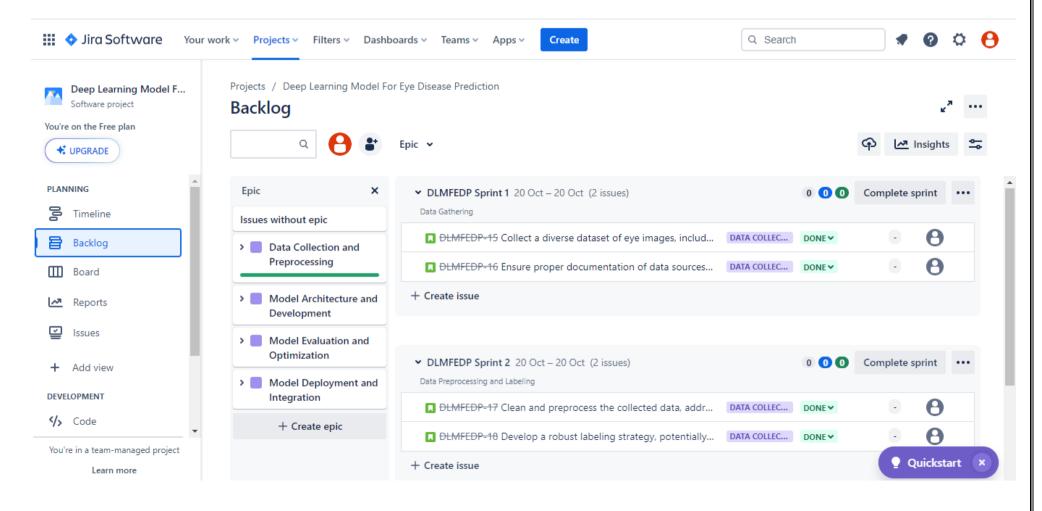
A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

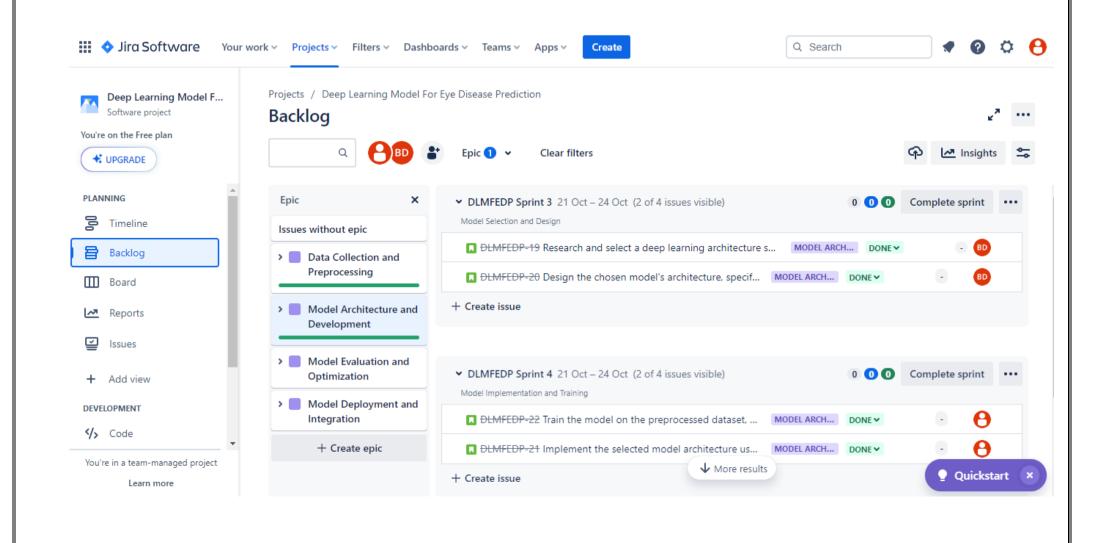


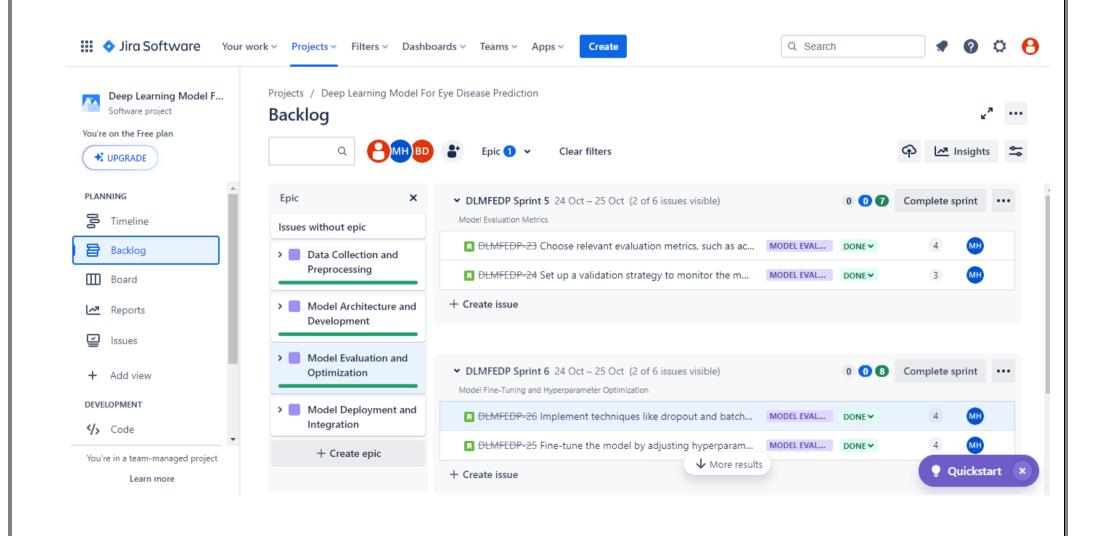
TIMELINE:

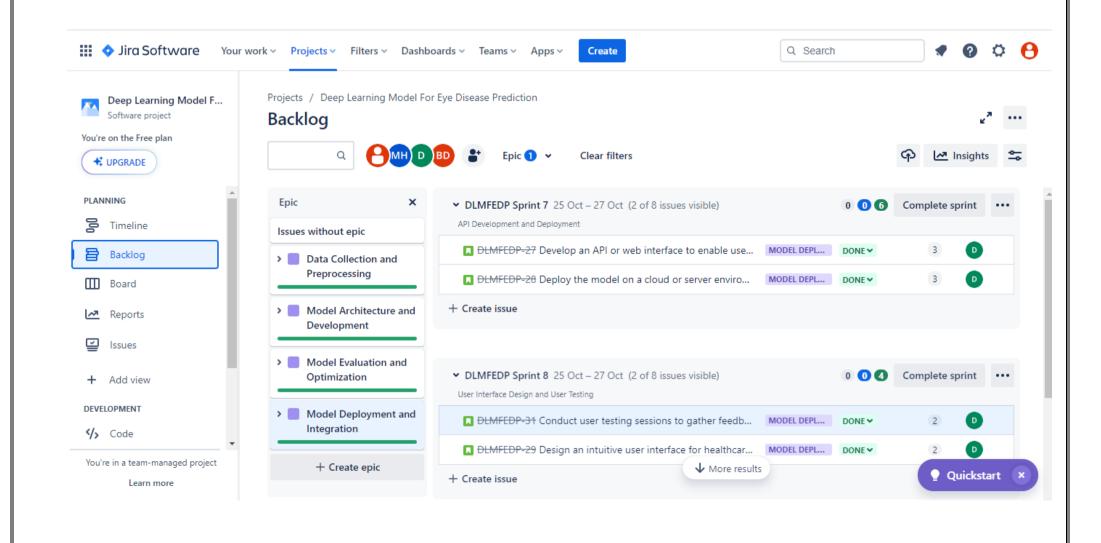


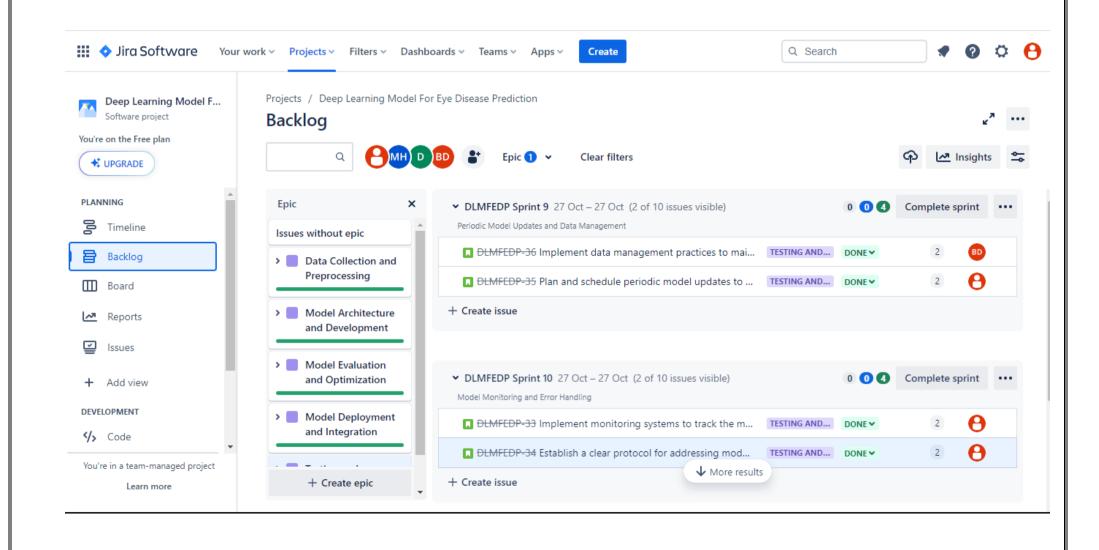
SPRINTS:











CUMULATIVE FLOW DIAGRAM:

