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

Date	**26-10-2023**
Team ID	**Team-592641**
Project Name	**Image Caption Generation**
Marks	**4**

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Project setup & Development environment	USN-1	Set up the dev environment with all necessary tools to begin the project.	1	High	Gokul
Sprint-2	Data collection	USN-2	Collect a diverse dataset of images to train the deep learning model.	2	High	Yaswanth
Sprint-2	Data preprocessing - I	USN-3	Preprocess the collected dataset by resizing images, normalizing pixel values, and splitting it into training and validation sets.	1	High	Pranav
Sprint-2	Data preprocessing - II	USN-4	Implement data augmentation techniques (e.g., rotation, flipping) to improve the model's robustness and accuracy.	1	Medium	Pranav
Sprint-3	Model development	USN-5	Examine and assess various deep learning structures in order to determine the most appropriate model for generating image captions.	4	High	Shreyas
Sprint-3	Training	USN-6	Train the chosen model using the preprocessed dataset and monitor its performance on a validation set. Ensure the model can generate descriptive captions for images.	6	High	Gokul
Sprint-4	Model deployment & Integration	USN-7	Deploy the trained image caption generation model as an API or web service to allow users to submit images and receive generated captions. Integrate the model's API into a user-friendly web interface.	4	Medium	Yaswanth
Sprint-5	Testing & quality assurance	USN-8	Conduct thorough testing of the model and web interface to identify and report any issues or inaccuracies in caption generation. Gather user feedback for model optimization.	1	Medium	Shreyas

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	1	1 Days	28 October 2023	28 October 2023		
Sprint-2	4	2 Days	29 October 2023	30 October 2023		
Sprint-3	10	4 Days	31 October 2023	3 November 2023		
Sprint-4	4	2 Days	4 November 2023	5 November 2023		
Sprint-5	1	1 Days	6 November 2023	6 November 2023		

Velocity:

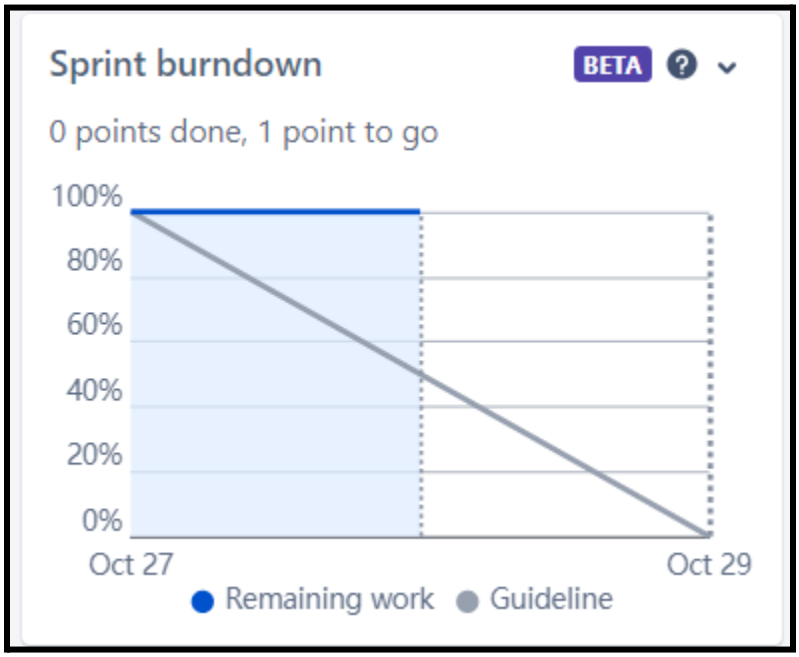
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

V1(Sprint 1) = 1 / 1 = 1
V2 (Sprint 2) = 2 / 4 = 0.50
V3 (Sprint 3) = 4 / 10 = 0.40
V4 (Sprint 4) = 2 / 4 = 0.50
V5 (Sprint 5) = 1 / 1 = 1

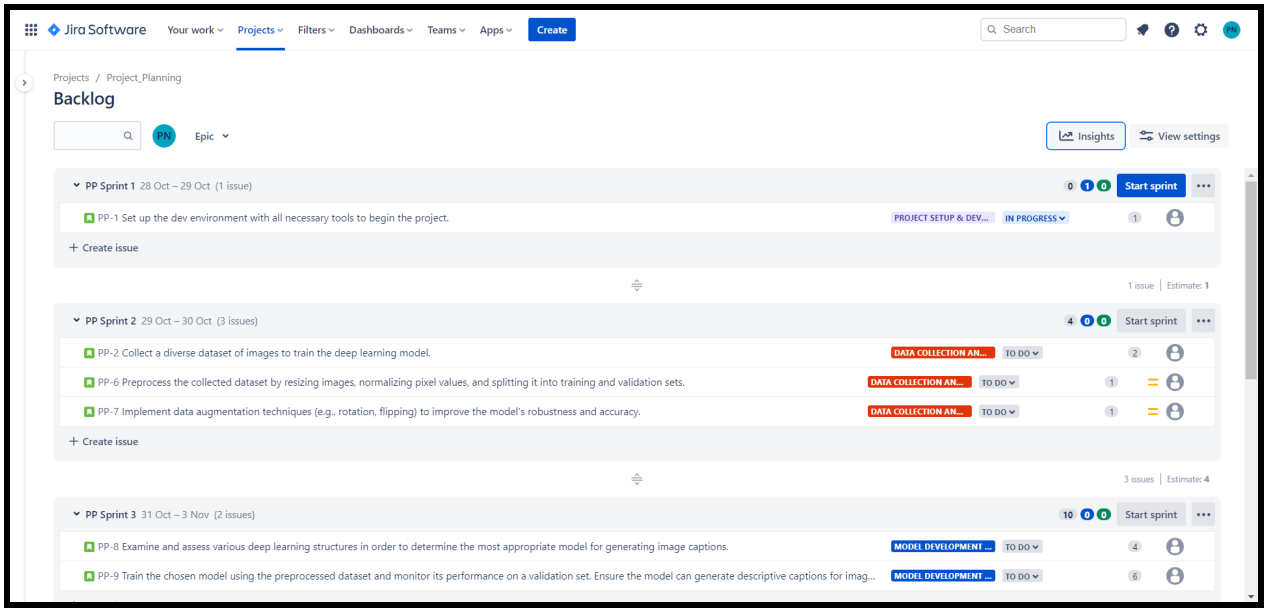
Total Sprint Duration= 10 days
Total Velocity = 20 points

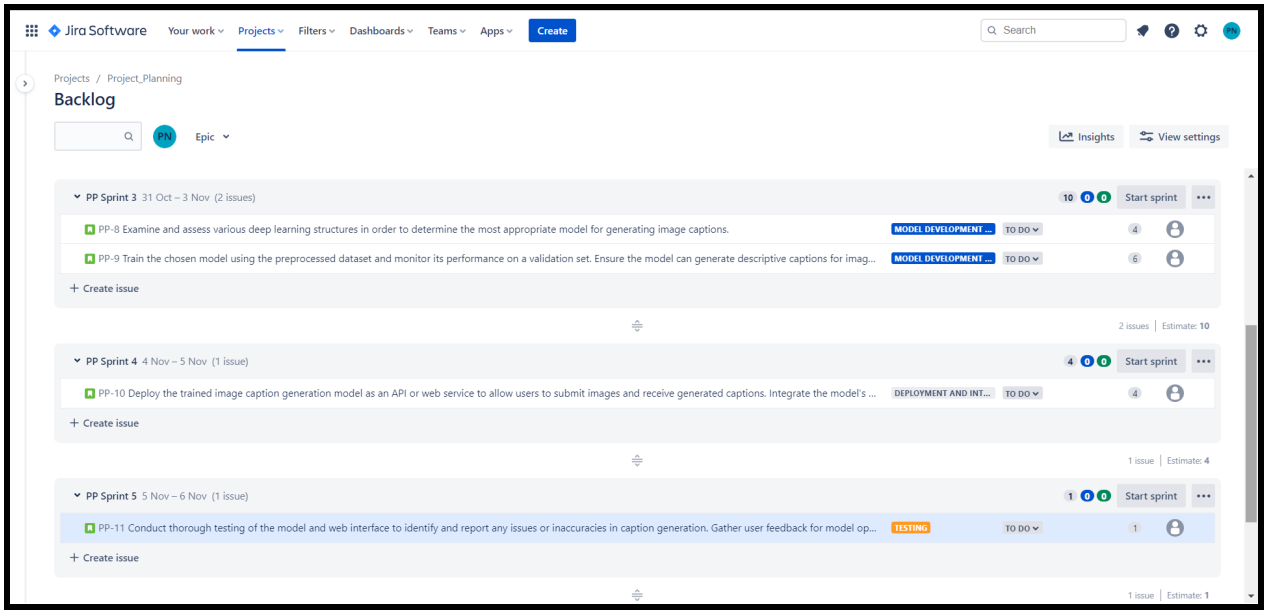
Average Velocity (AV) = Sprint Duration / Velocity = (1+2+4+2+1)/(1+4+10+4+1)= 0.50

Burndown Chart:



Backlog:

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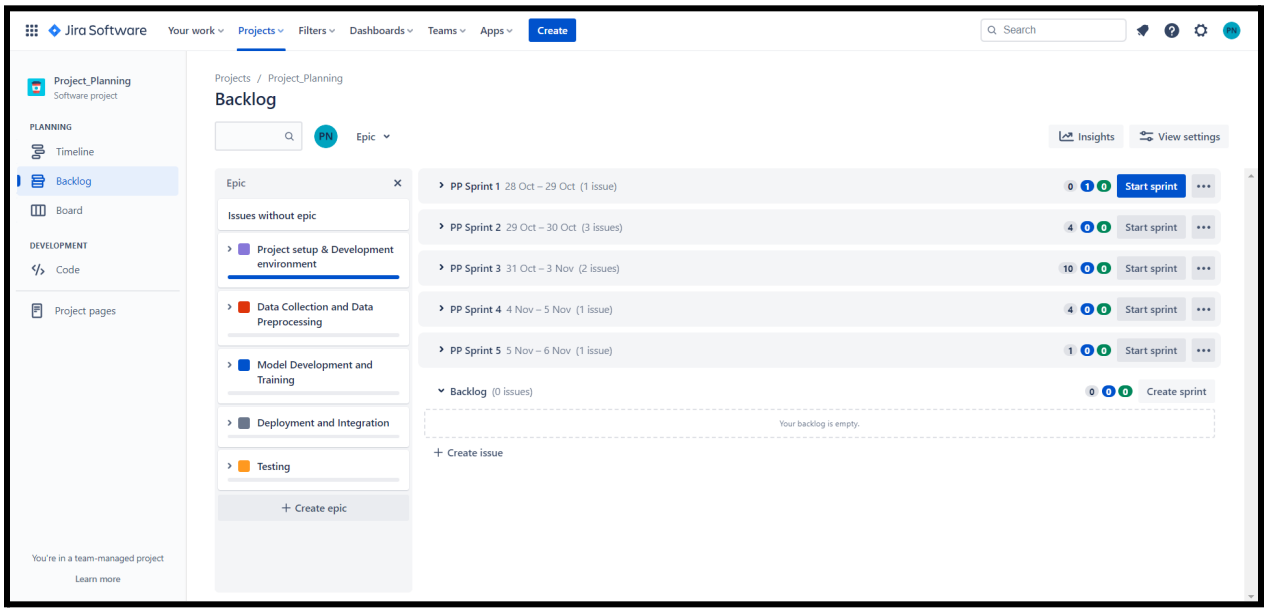
PP Sprint 3 31 Oct – 3 Nov (2 issues)
Start sprint
PP-8 Examine and assess various deep learning structures in order to determine the most appropriate model for generating image captions.
MODEL DEVELOPMENT ...
TO DO
PP-9 Train the chosen model using the preprocessed dataset and monitor its performance on a validation set. Ensure the model can generate descriptive captions for imag...
Create issue
2 issues | Estimate: 10
PP Sprint 4 4 Nov – 5 Nov (1 issue)
PP-10 Deploy the trained image caption generation model as an API or web service to allow users to submit images and receive generated captions. Integrate the model's ...
DEPLOYMENT AND INT...
1 issue | Estimate: 4
PP Sprint 5 5 Nov – 6 Nov (1 issue)
PP-11 Conduct thorough testing of the model and web interface to identify and report any issues or inaccuracies in caption generation. Gather user feedback for model op...
TESTING
1 issue | Estimate: 1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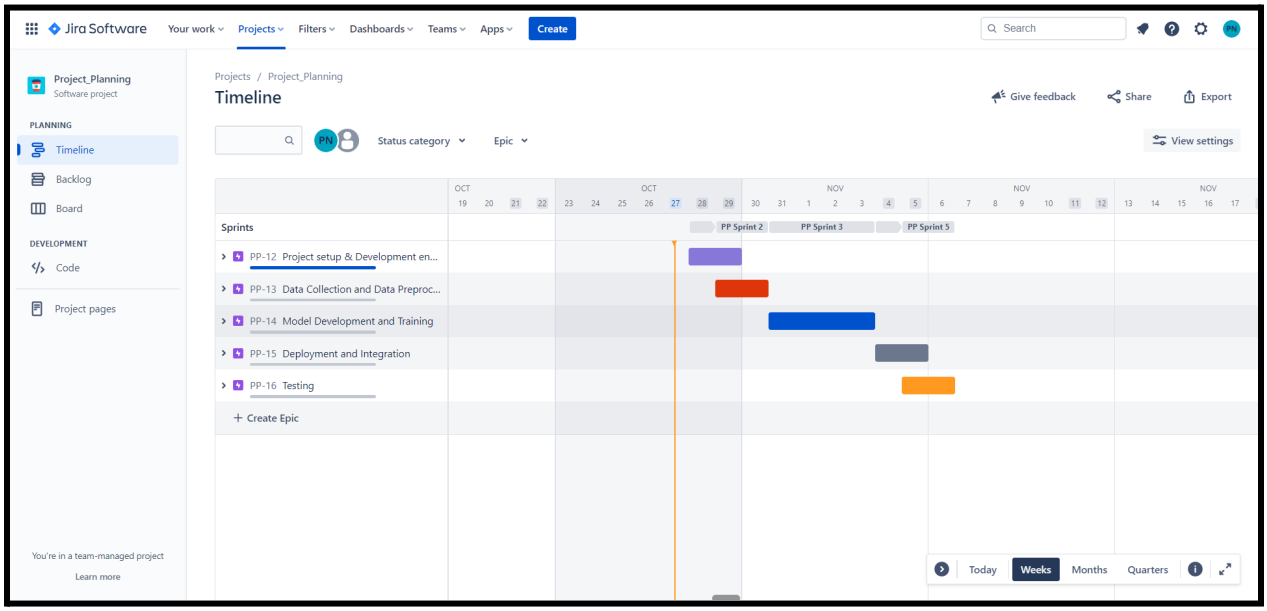
Issues without epic
Project setup & Development environment
Data Collection and Data Preprocessing
Model Development and Training
Deployment and Integration
Testing
Create epic
PP Sprint 1 28 Oct – 29 Oct (1 issue)
PP Sprint 2 29 Oct – 30 Oct (3 issues)
PP Sprint 3 31 Oct – 3 Nov (2 issues)
PP Sprint 4 4 Nov – 5 Nov (1 issue)
PP Sprint 5 5 Nov – 6 Nov (1 issue)
Start sprint
Backlog (0 issues)
Create sprint
Your backlog is empty.
Create issue

Timeline:



Board: