Project Planning Phase

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

Date: 30-10-2023
Team ID: Team-592965
Project Name: Ship Classification using Deep Learning
Maximum Marks: 20 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 and Infrastructure	USN-1	Set up the development environment with the required tools and frameworks to start the ship classification project.	3	High	Shobith
Sprint-1	Development Environment	USN-2	Gather a diverse dataset of images containing different types of ships (Military, Cargo, Cruise, Carrier, Tanker) for training the deep learning model.	2	High	Shobith
Sprint-2	Data Collection	USN-3	Preprocess the collected dataset by resizing images, normalizing pixel values, and splitting it into training and validation sets.	2	High	Bharath
Sprint-2	Data Preprocessing	USN-4	Explore and evaluate different deep learning architectures (e.g., CNNs) to select the most suitable model for ship classification.	3	High	Bharath
Sprint-3	Model Development	USN-5	Train the selected deep learning model using the preprocessed dataset and monitor its performance on the validation set.	3	High	Surya Kiran
Sprint-3	Training	USN-6	Implement data augmentation techniques (e.g., rotation, flipping) to improve the model's robustness and accuracy.	2	Medium	Surya Kiran
Sprint-4	Model Deployment & Integration	USN-7	Deploy the trained deep learning model as an API or web service to make it accessible for garbage classification.	2	Medium	Sai Charan
Sprint-5	Testing & Quality Assurance	USN-8	Conduct thorough testing of the web interface to identify and report any issues or bugs and optimize its performance based on user feedback and testing results.	3	Medium	Sai Charan

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	5	3 Days 26 Oct 2023 29 Oct 2023	20	29 Oct 2023
Sprint-2	5	3 Days 29 Oct 2023 31 Oct 2023		
Sprint-3	5	2 Days 1 Nov 2023 3 Nov 2023		
Sprint-4	2	2 Days 3 Nov 2023 5 Nov 2023		
Sprint-5	3	1 Days 5 Nov 2023 6 Nov 2023		

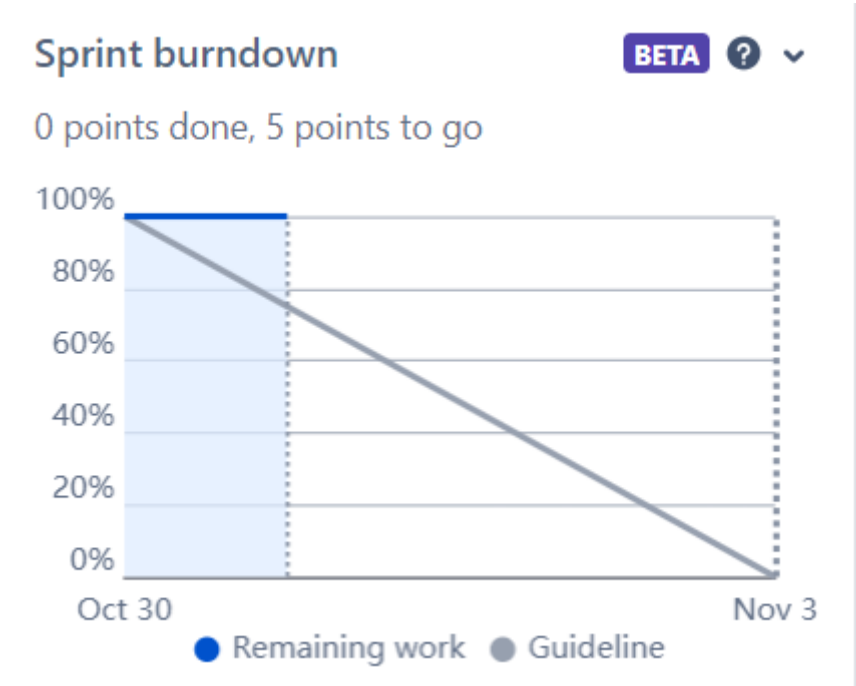
Velocity:

Average Velocity = Sprint Duration / Velocity = 11/5 = 2.2

Burndown Chart:

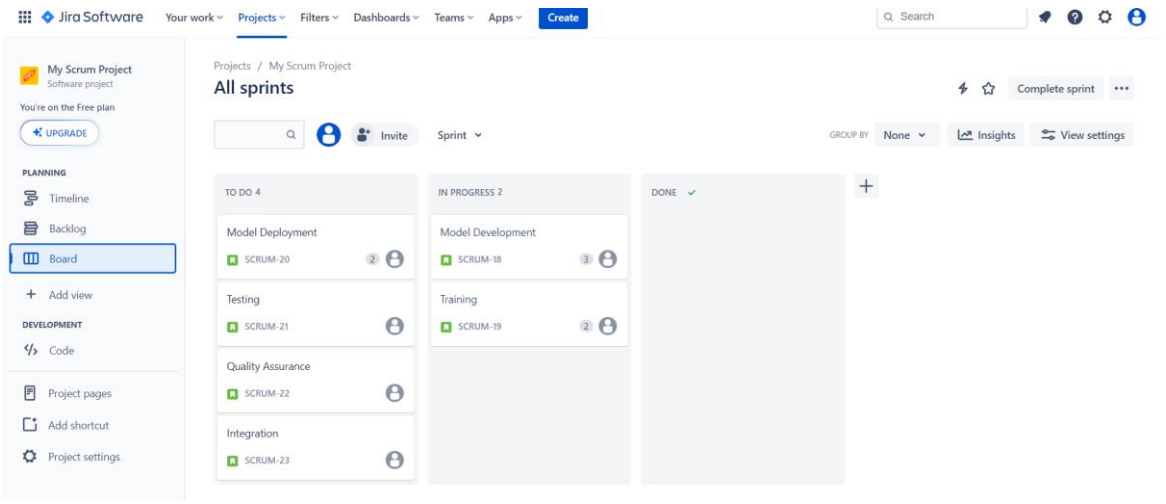
A burndown chart is a graphical representation of work left to do versus time.

Burndown Chart:

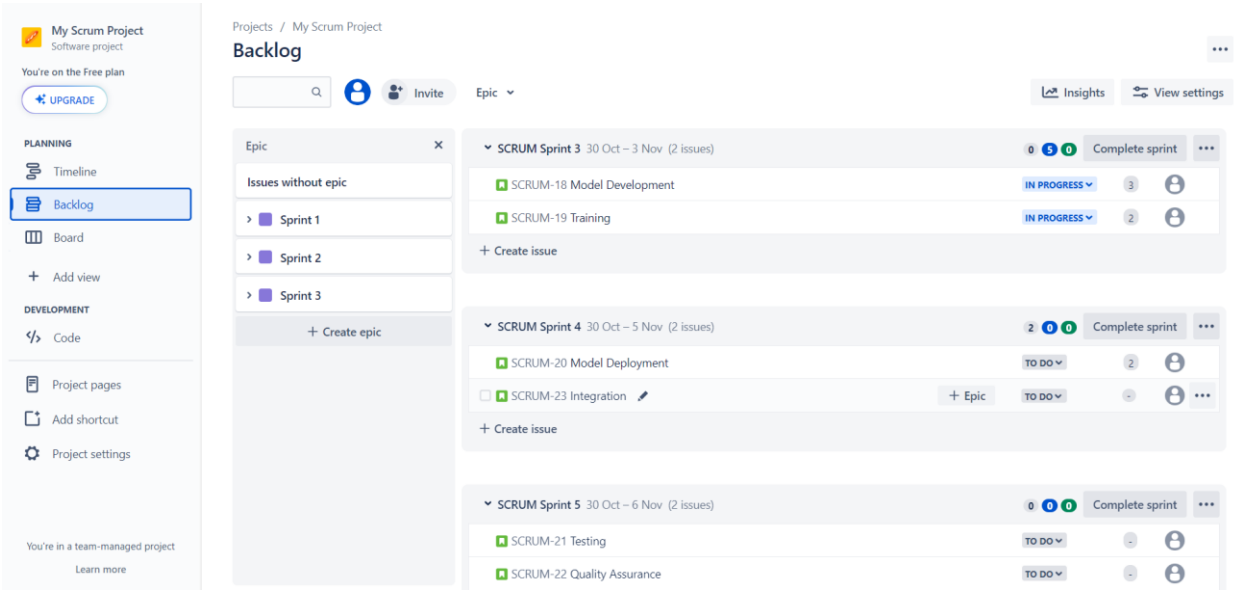


Board section.

We have completed sprint 1 and 2. So we can see the remaining tasks on board.



Backlog section



Timeline