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

Date	05-11-23
Team ID	Team-592384
Project Name	Deep Learning Model For Detecting Diseases In Tea Leaves
Maximum Marks	20 Marks

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

Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Sprint	Team Members
Project Setup & Infrastructure	USN-1	Set up the development environment with the required tools and frameworks to start the disease prediction project.	1	High	Sprint 1	Siddhardha
Development Environment	USN-2	Gather a diverse dataset of tea leaf images containing examples of healthy and diseased leaves for training the deep learning model.	2	High	Sprint 1	Tushar

Data Collection	USN-3	Preprocess the collected tea leaf dataset by standardizing image sizes, enhancing image quality, and splitting it into training and validation sets.	2	High	Sprint 2	Santosh
Data Preprocessing	USN-4	Explore and evaluate various deep learning architectures (e.g., CNNs, RNNs) to select the most suitable model for disease prediction in tea leaves.	3	High	Sprint 2	Nitin
Model Development	USN-5	Train the selected deep learning model using the preprocessed dataset and monitor its performance on the validation set.	4	High	Sprint 3	Santosh

Training	USN-6	Implement data augmentation techniques (e.g., rotation, flipping) to enhance the model's ability to recognize disease patterns in tea leaves.	6	Medium	Sprint 3	Tushar
Model Deployment & Integration	USN-7	Deploy the trained deep learning model as an API or web service to make it accessible for disease prediction in tea leaves. Integrate the model's API into a user-friendly web interface for users to submit tea leaf images for analysis.	1	Medium	Sprint 4	Siddhardha
Testing & Quality Assurance	USN-8	Conduct thorough testing of the model and web interface to identify and report any issues or inaccuracies. Fine-tune the model's hyperparameters and optimize its disease prediction performance based on user feedback and testing results.	1	Medium	Sprint 5	Nitin

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint- 1	3	2 days	31 Oct 2023	2 Nov 2023	3	2 Nov 2023
Sprint – 2	5	2 days	3 Nov 2023	5 Nov 2023	8	5 Nov 2023
Sprint – 3	10	5 days	6 Nov 2023	11 Nov 2023	18	11 Nov 2023
Sprint – 4	1	4 days	12 Nov 2023	16 Nov 2023	19	16 Nov 2023
Sprint- 5	1	2 days	17 Nov 2023	19 Nov 2023	20	19 Nov 2023

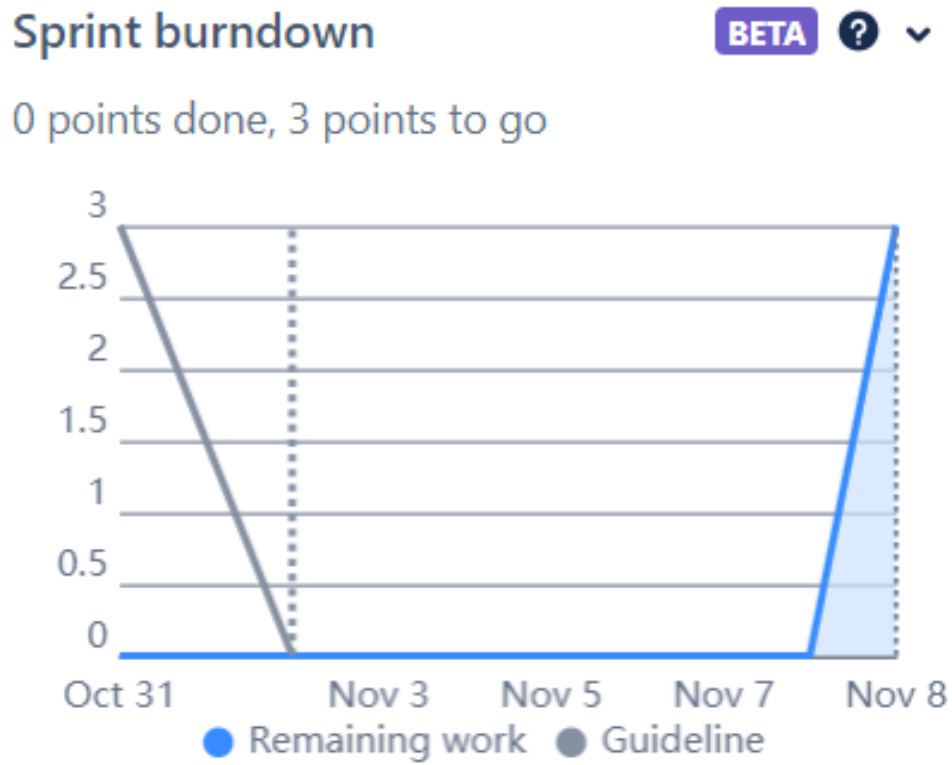
Velocity:

Imagine we have a 29-days 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)

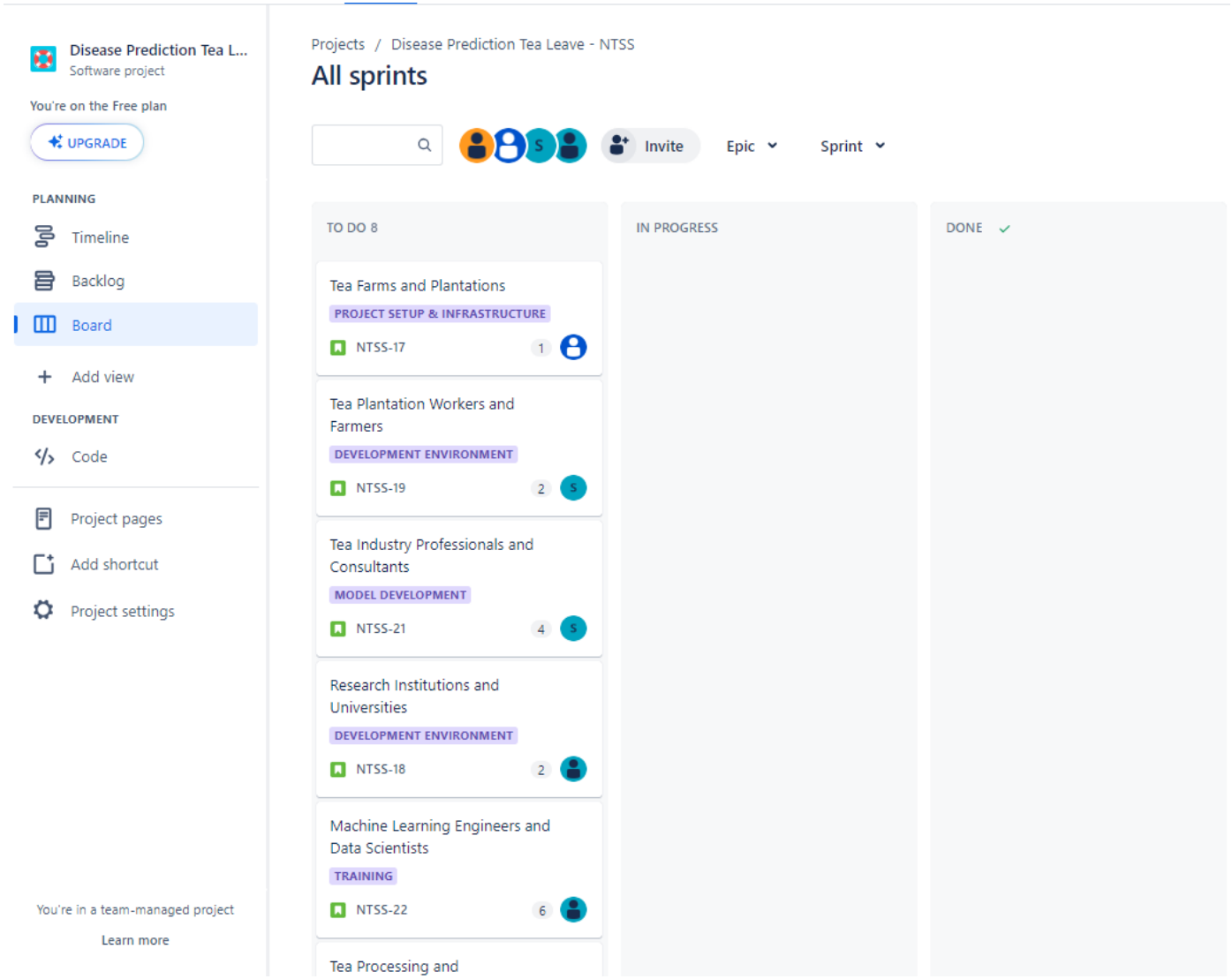
$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Burndown Chart:

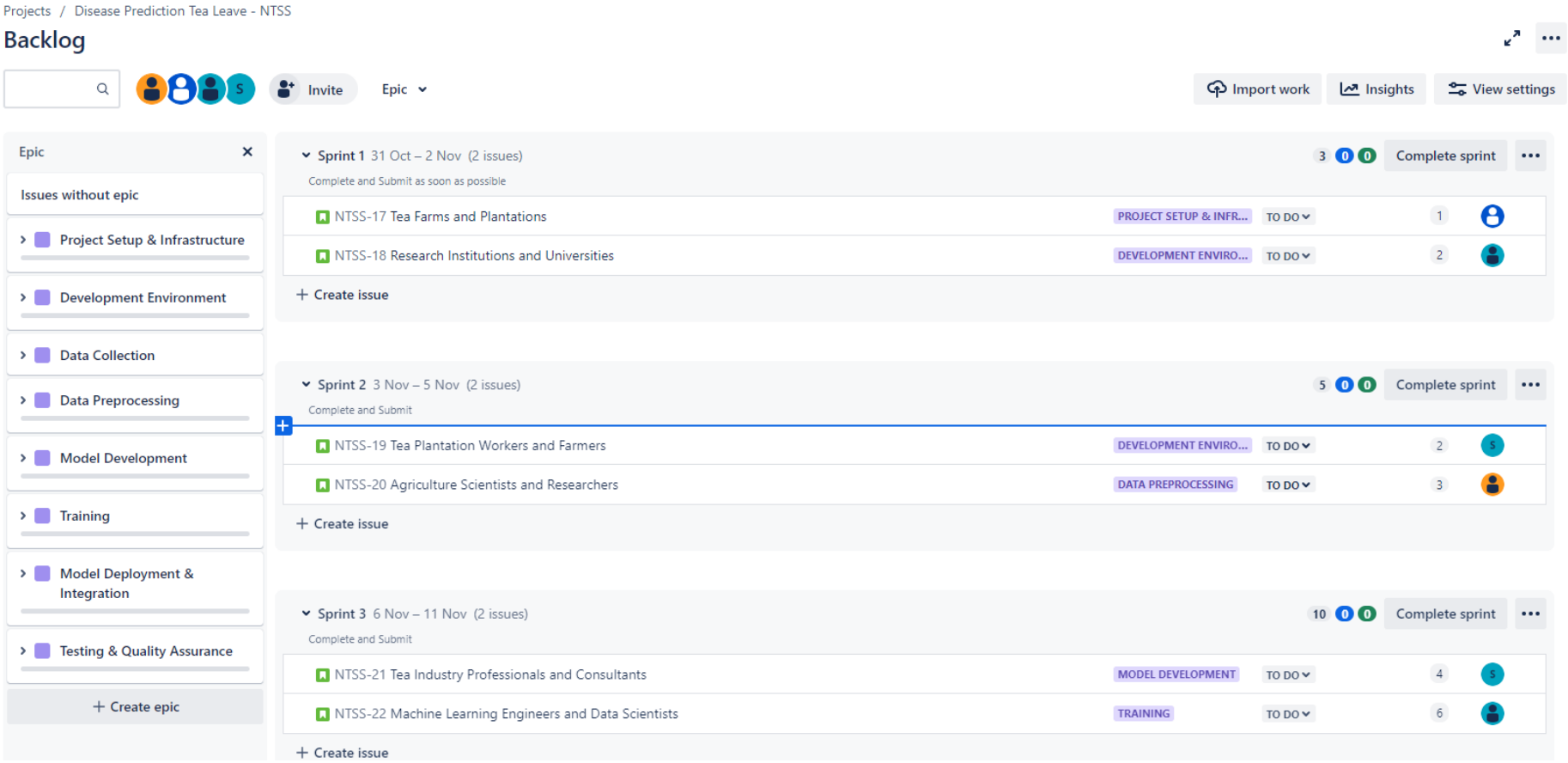
A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.



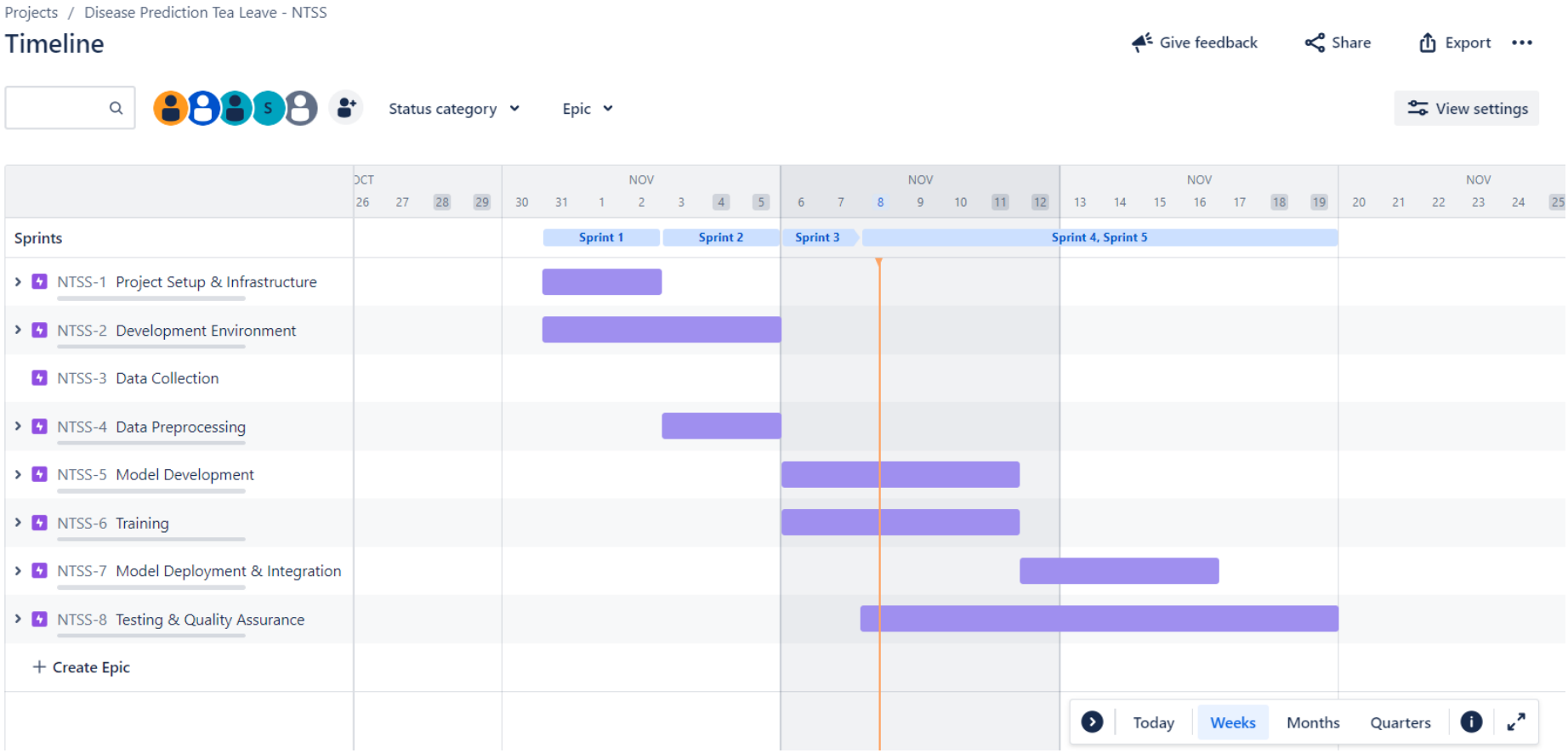
Board section:



Backlog section:



Timeline:


Projects / Disease Prediction Tea Leave - NTSS
Timeline
Give feedback
Share
Export
Status category
Epic
View settings
OCT
NOV
NOV
NOV
26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
Sprints
Sprint 1
Sprint 2
Sprint 3
Sprint 4, Sprint 5
NTSS-1 Project Setup & Infrastructure
NTSS-2 Development Environment
NTSS-3 Data Collection
NTSS-4 Data Preprocessing
NTSS-5 Model Development
NTSS-6 Training
NTSS-7 Model Deployment & Integration
NTSS-8 Testing & Quality Assurance
Create Epic
Today
Weeks
Months
Quarters