Project Planning Phase

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

Date	21 Nov 2023
Team ID	591647
Project Name	Project - **Machine Learning Approach For Predicting The Rainfall**
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	Data Acquisition and Preprocessing	USN-1	As a data scientist, I want to collect historical meteorological data for training the rainfall prediction model. As a data engineer, I want to clean and preprocess the collected data to remove outliers and handle missing values.	5	High	Akash
Sprint-2	Model Development	USN-2	As a machine learning engineer, I want to choose and implement a suitable machine learning algorithm for rainfall prediction	8	High	sahith
Sprint-3	Model Evaluation and Fine-Tuning	USN-3	As a machine learning engineer, I want to fine-tune hyperparameters to improve the model's accuracy after the splitting of data into testing and training.	6	Medium	Leela Krishna

Sprint-4	Model Interpretability and Explainability	USN-4	As a stakeholder, I want a clear understanding of how the rainfall prediction model makes its predictions.	7	Medium	Akash
Sprint-5	Deployment and Integration	USN-5	As a system administrator, I want to deploy the trained model into a real-world environment and integrate it with existing systems.	10	High	Sahith

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	6 Days	01 Nov 2023	07 Nov 2023	30	21 NOV 2023
Sprint-2	8	7 Days	07 Nov 2023	14 Nov 2023		
Sprint-3	6	6 Days	14 Nov 2023	20 Nov 2023		
Sprint-4	7	6 Days	15 Nov 2023	21 Nov 2023		
Sprint-5	10	5 Days	16 Nov 2023	21 Nov 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)

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

AV=30/36=0.83

Burndown Chart:

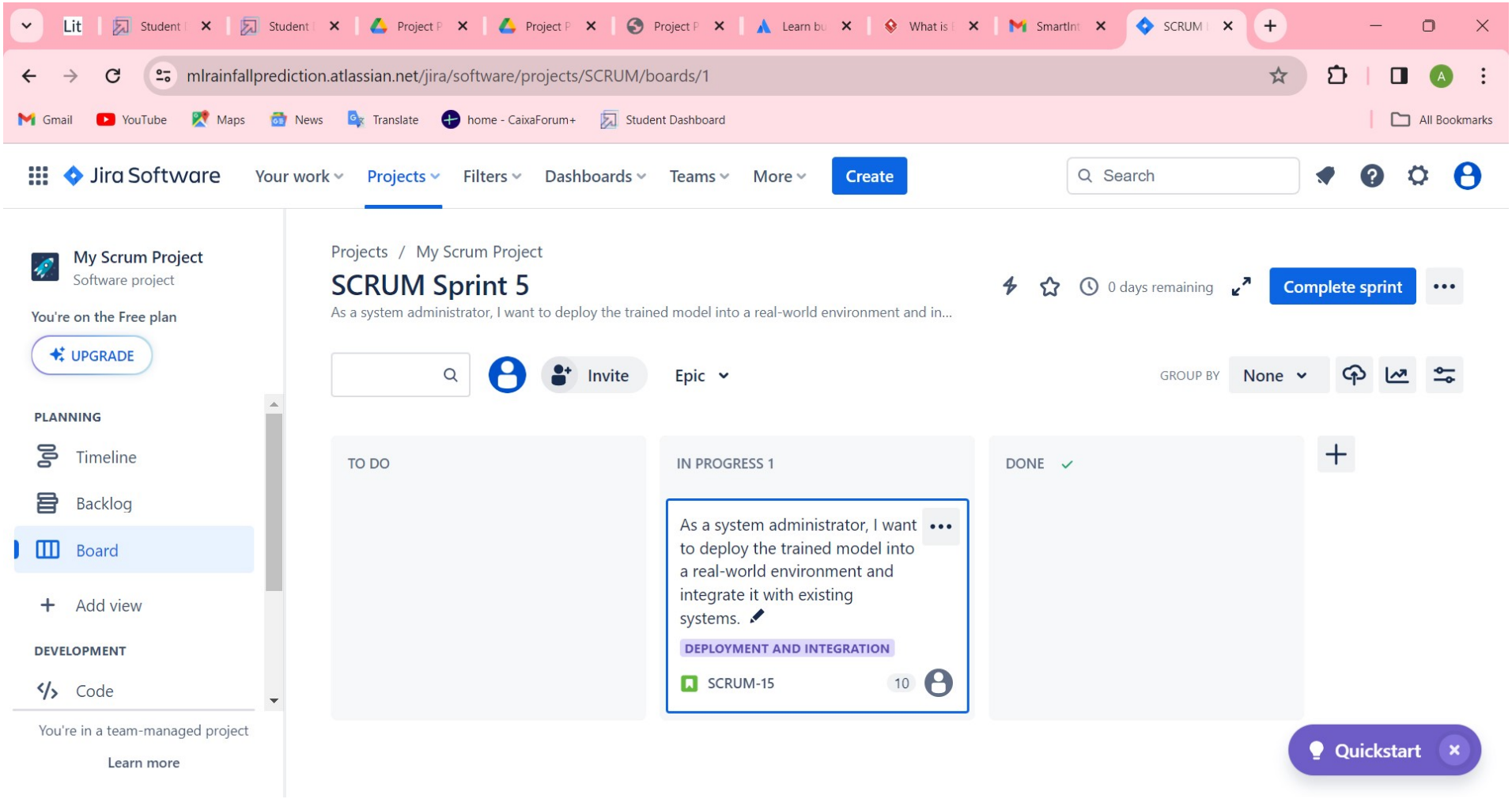
A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

GROUP BY None

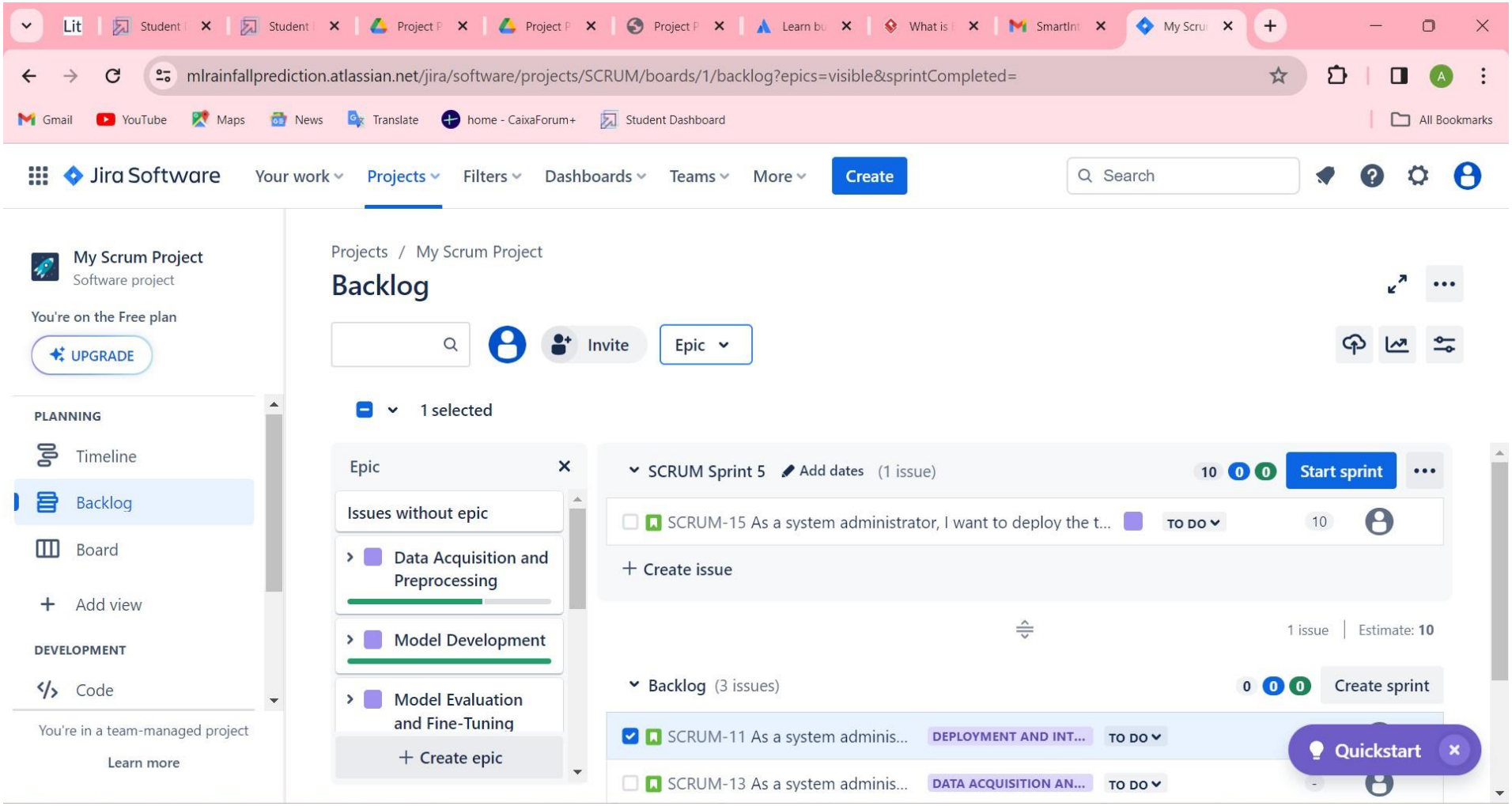
Sprint burndown

0 points done, 6 points to go

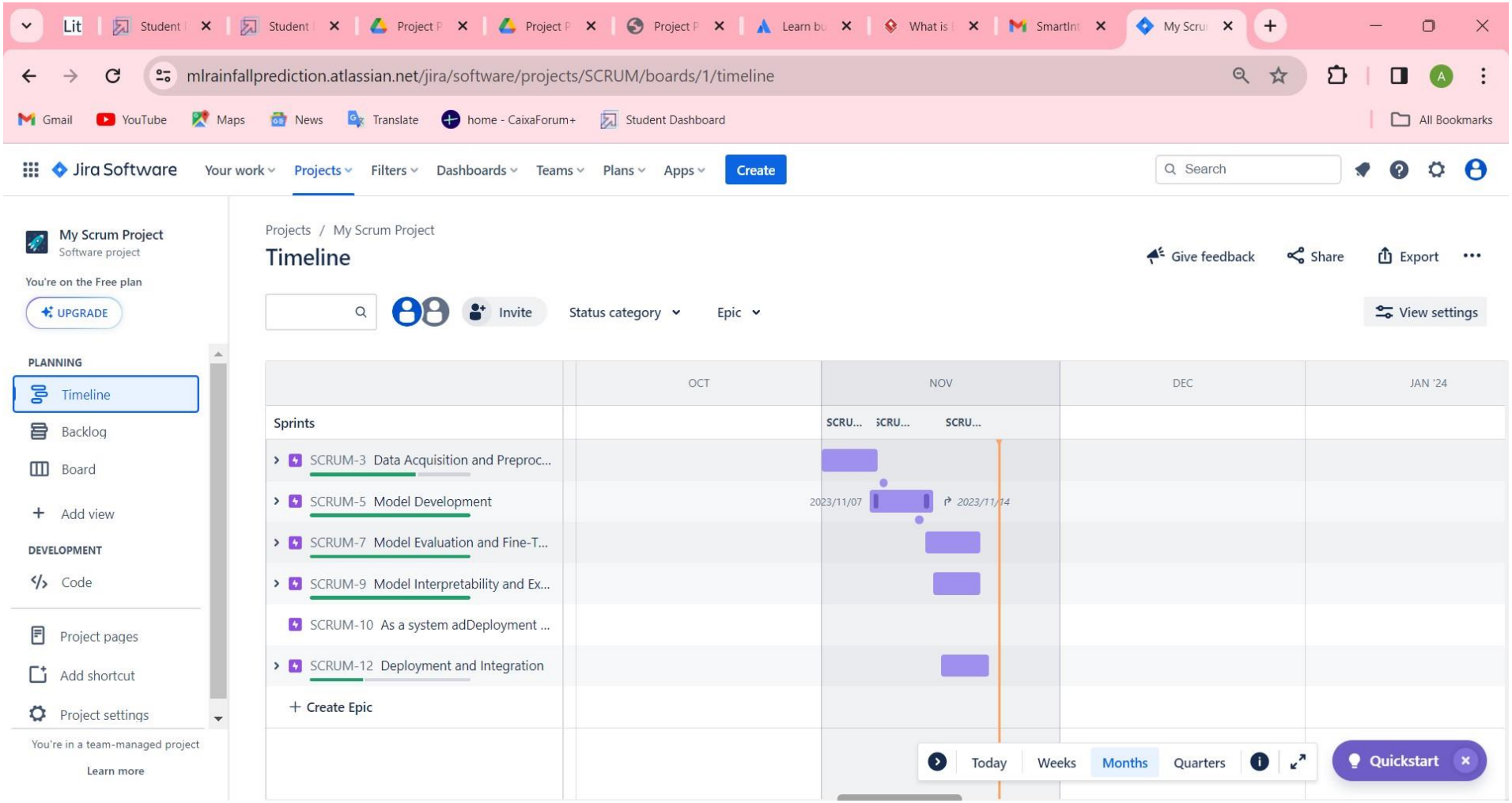
Board Section



Backlog Section:



Timeline: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Filters
Dashboards
Teams
Plans
Apps
Create
Search
My Scrum Project
Software project
You're on the Free plan
UPGRADE
PLANNING
Timeline
Backlog
Board
Add view
DEVELOPMENT
Code
Project pages
Add shortcut
Project settings
You're in a team-managed project
Learn more
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Timeline
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Share
Export
Invite
Status category
Epic
View settings
OCT
NOV
DEC
JAN '24
Sprints
SCRU...
SCRU...
SCRU...
SCRUM-3 Data Acquisition and Preproc...
SCRUM-5 Model Development
2023/11/07
2023/11/14
SCRUM-7 Model Evaluation and Fine-T...
SCRUM-9 Model Interpretability and Ex...
SCRUM-10 As a system adDeployment ...
SCRUM-12 Deployment and Integration
Create Epic
Today
Weeks
Months
Quarters
Quickstart