Project Planning Phase

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

Date	18 November 2023
Team ID	Team-592065
Project Name	Vitamin Detection 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	Project setup	USN-1	Set the development environment by downloading the required software and tools to start the vitamin detection using deep learning project.	2	High	Pujitha
Sprint 1	Data Collection	USN-2	Collect diverse dataset of different types of images containing vitamin A, vitamin B, vitamin C, vitamin D and vitamin E.	1	High	Pujitha
Sprint 2	Data preprocessing	USN-3	Preprocess the collected dataset by resizing images, normalizing pixel values, and splitting the dataset into train and test sets.	2	High	Pujitha
Sprint 2	Model development	USN-4	Evaluate deep learning models such as CNN to select the best model for vitamin detection.	2	High	Pujitha and Lalitha
Sprint 3	Training	USN-5	Implement data augmentation techniques to improve accuracy of the model.	1	Medium	Lalitha
Sprint 4	Model deployment and integration.	USN-6	Developing an UI Interface to detect the vitamin in the food item.	2	High	Lalitha
Sprint 4	Testing the model	USN-7	Testing the model by uploading image of a food item and getting the required prediction.	1	High	Lalitha

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	20	4 Days	30 Oct 2023	02 Nov 2023	18	03 Nov 2023
Sprint-2	20	5 Days	03 Nov 2023	07 Nov 2023	16	10 Nov 2023
Sprint-3	20	10 Days	08 Nov 2023	17 Nov 2023	17	19 Nov 2023
Sprint-4	20	4 Days	18 Nov 2023	22 Nov 2023	15	25 Nov 2023

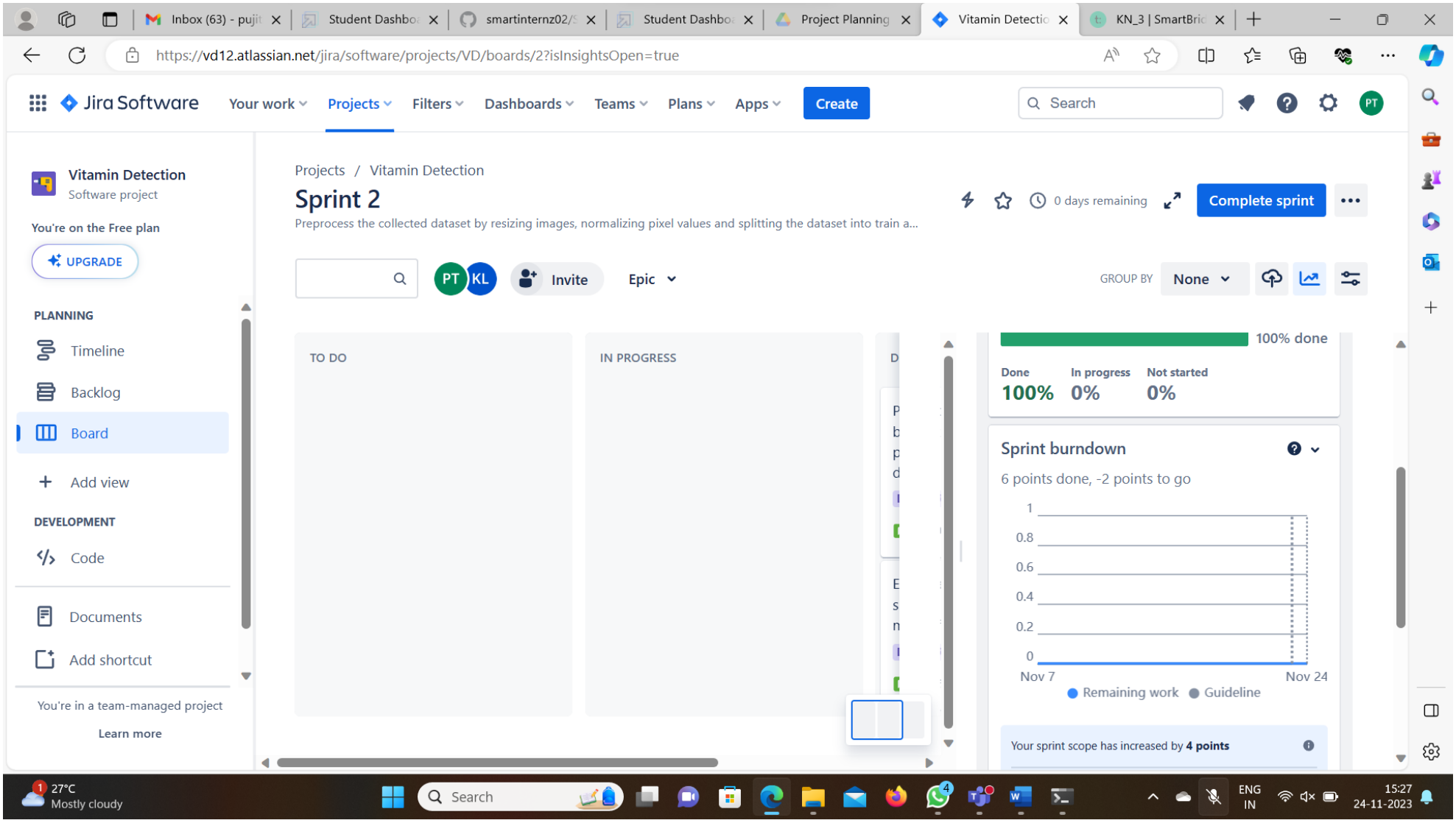
Velocity:

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

Therefore, AV = sprint duration/velocity = (18+16+17+15)/4 = 16.5

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.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Projects / Vitamin Detection
Sprint 2
Preprocess the collected dataset by resizing images, normalizing pixel values and splitting the dataset into train a...
0 days remaining
Complete sprint
PT
KL
Invite
Epic
GROUP BY
None
TO DO
IN PROGRESS
100% done
Done
100%
In progress
0%
Not started
0%
Sprint burndown
6 points done, -2 points to go
1
0.8
0.6
0.4
0.2
0
Nov 7
Nov 24
Remaining work
Guideline
Your sprint scope has increased by 4 points
27°C
Mostly cloudy
Search
ENG
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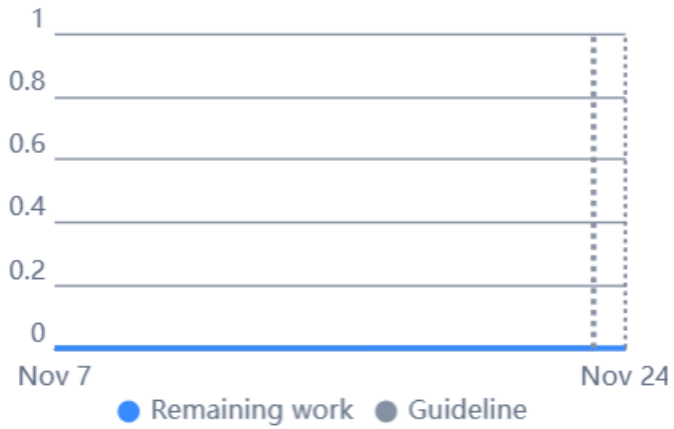
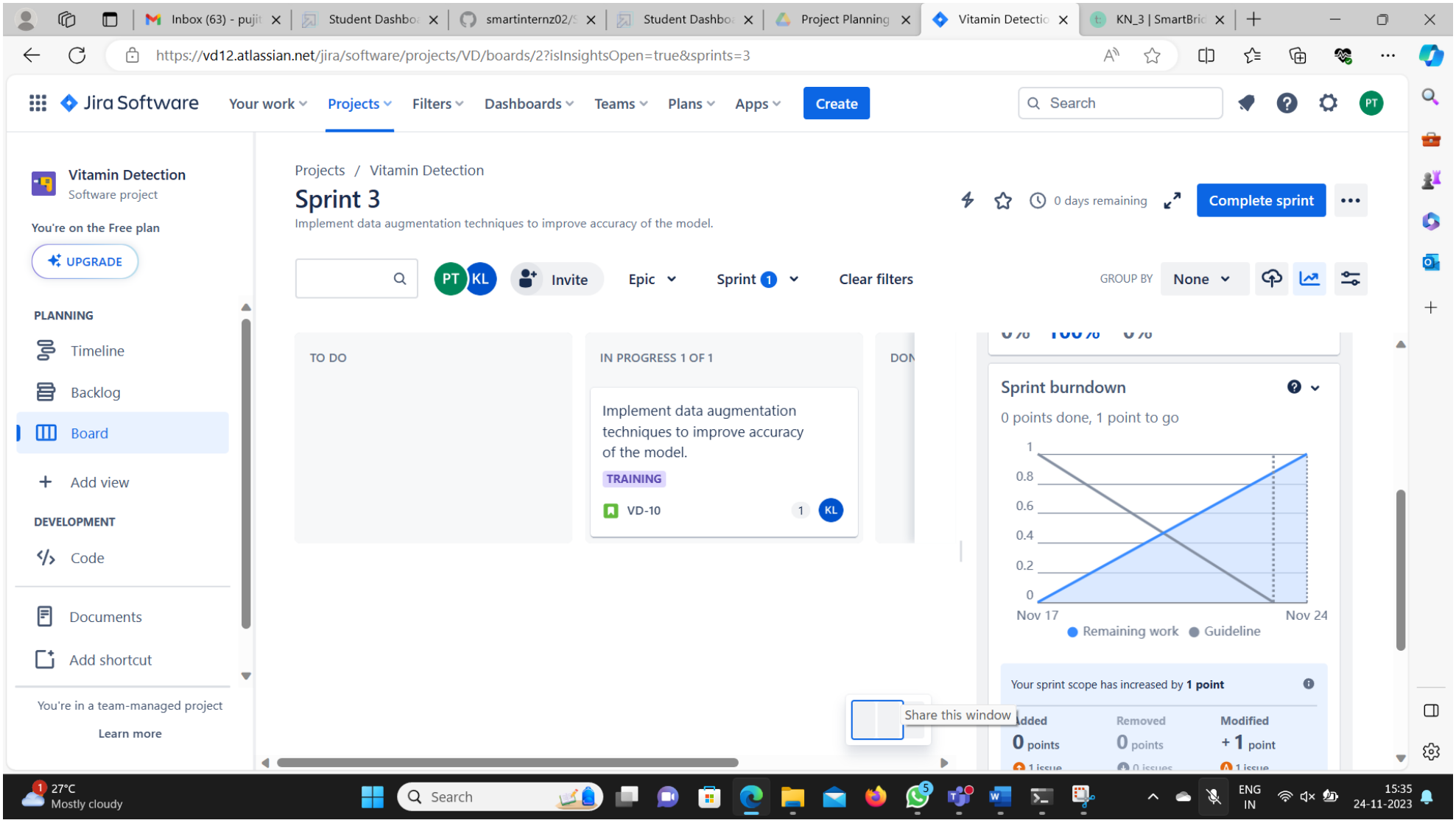
15:27
24-11-2023

Sprint burndown

6 points done, -2 points to go

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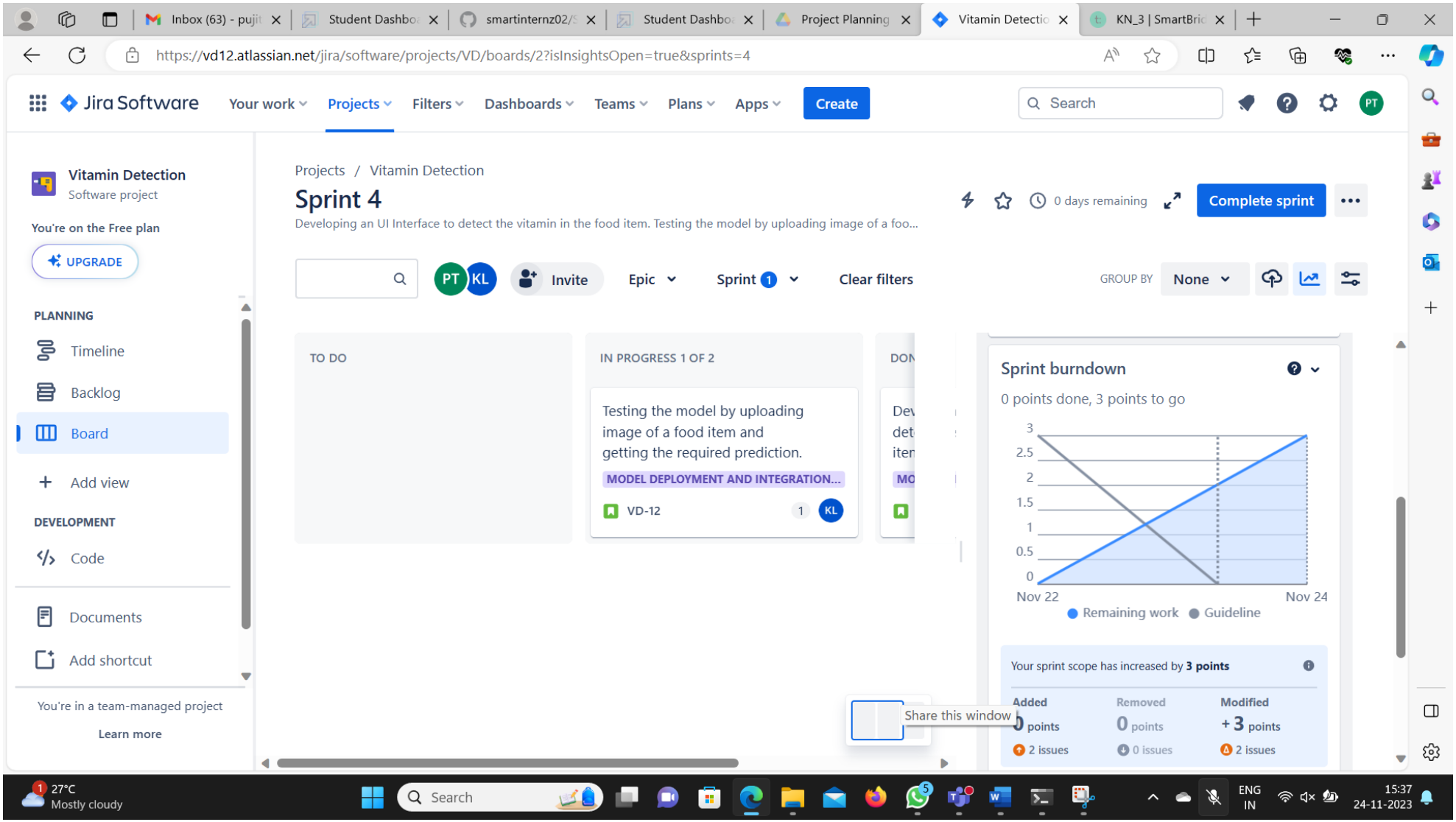
Sprint 3
Implement data augmentation techniques to improve accuracy of the model.
0 days remaining
Complete sprint
PT
KL
Invite
Epic
Sprint 1
Clear filters
GROUP BY
None
TO DO
IN PROGRESS 1 OF 1
DON
Implement data augmentation techniques to improve accuracy of the model.
TRAINING
VD-10
1
KL
Sprint burndown
0 points done, 1 point to go
1
0.8
0.6
0.4
0.2
0
Nov 17
Nov 24
Remaining work
Guideline
Your sprint scope has increased by 1 point
Added
0 points
Removed
0 points
Modified
+ 1 point
Share this window
27°C
Mostly cloudy
Search
ENG
IN
15:35
24-11-2023

Sprint burndown

0 points done, 1 point to go

Your sprint scope has increased by **1 point**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Add shortcut
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Projects / Vitamin Detection
Sprint 4
Developing an UI Interface to detect the vitamin in the food item. Testing the model by uploading image of a foo...
0 days remaining
Complete sprint
PT
KL
Invite
Epic
Sprint 1
Clear filters
GROUP BY
None
TO DO
IN PROGRESS 1 OF 2
Testing the model by uploading image of a food item and getting the required prediction.
MODEL DEPLOYMENT AND INTEGRATION...
VD-12
1
KL
Sprint burndown
0 points done, 3 points to go
3
2.5
2
1.5
1
0.5
0
Nov 22
Nov 24
Remaining work
Guideline
Your sprint scope has increased by 3 points
Added
0 points
2 issues
Removed
0 points
0 issues
Modified
+ 3 points
2 issues
Share this window
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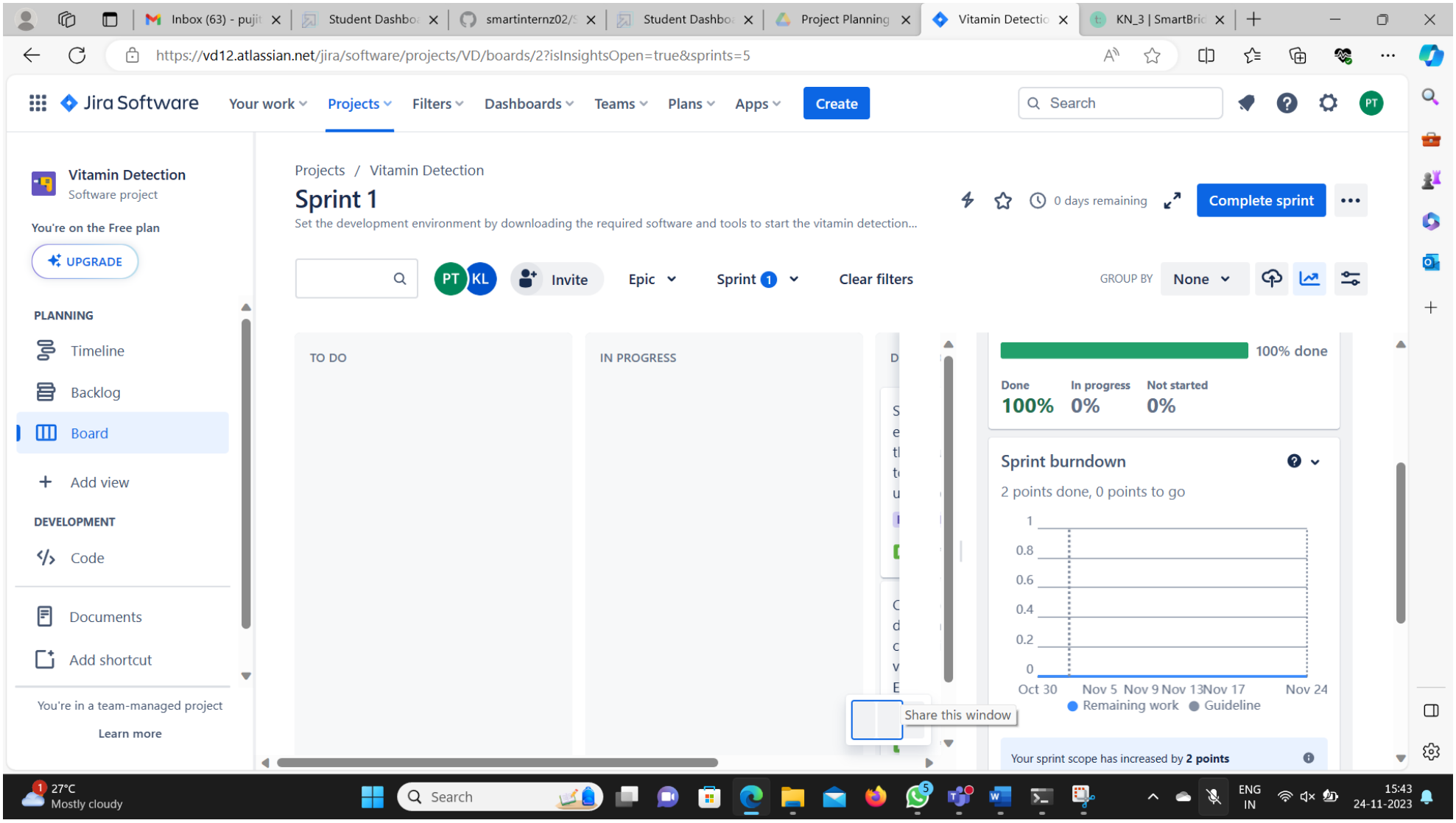
24-11-2023

Sprint burndown

0 points done, 3 points to go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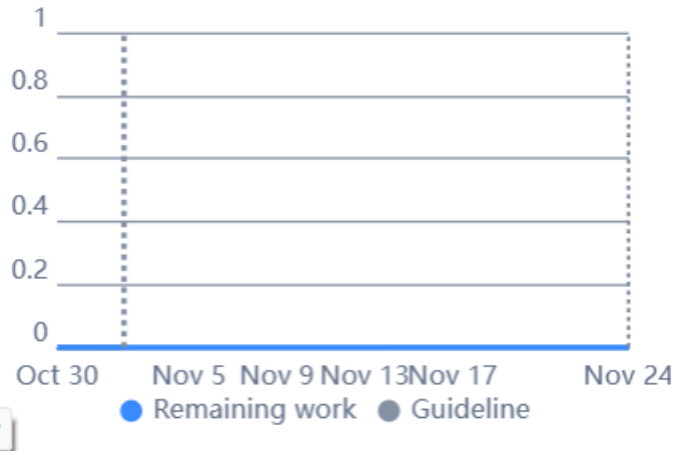
Projects / Vitamin Detection
Sprint 1
Set the development environment by downloading the required software and tools to start the vitamin detection...
0 days remaining
Complete sprint
Invite
Epic
Sprint 1
Clear filters
GROUP BY
None
TO DO
IN PROGRESS
100% done
Done
100%
In progress
0%
Not started
0%
Sprint burndown
2 points done, 0 points to go
1
0.8
0.6
0.4
0.2
0
Oct 30
Nov 5
Nov 9
Nov 13
Nov 17
Nov 24
Remaining work
Guideline
Your sprint scope has increased by 2 points
Share this window
27°C
Mostly cloudy
Search
ENG
IN
15:43
24-11-2023

Sprint burndown

2 points done, 0 points to go



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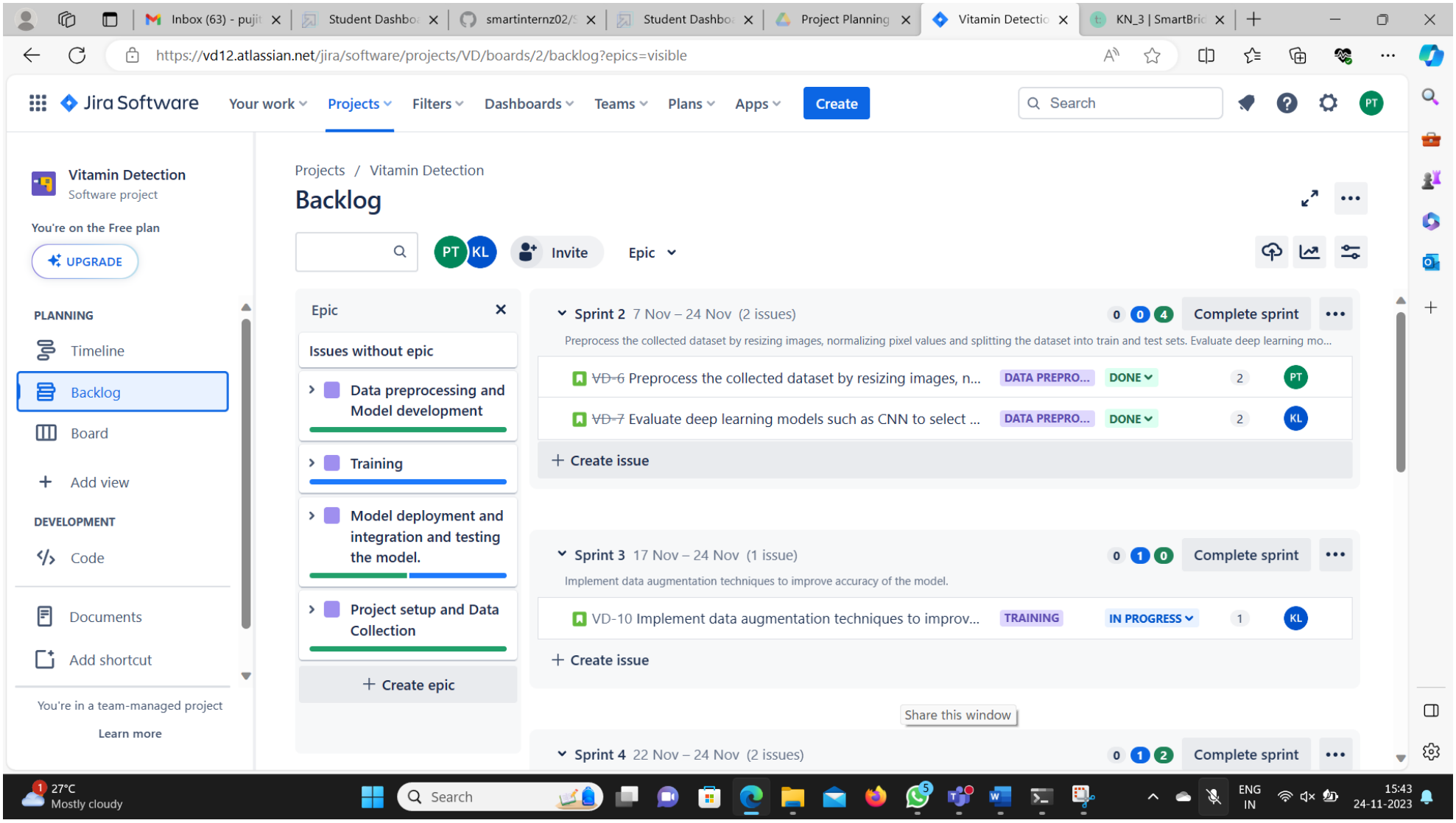
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Issues without epic
Data preprocessing and Model development
Training
Model deployment and integration and testing the model.
Project setup and Data Collection
Create epic
Sprint 2 7 Nov – 24 Nov (2 issues)
0 0 4
Complete sprint
Preprocess the collected dataset by resizing images, normalizing pixel values and splitting the dataset into train and test sets. Evaluate deep learning mo...
VD-6 Preprocess the collected dataset by resizing images, n...
DATA PREPRO...
DONE
2
PT
VD-7 Evaluate deep learning models such as CNN to select ...
DATA PREPRO...
DONE
2
KL
Create issue
Sprint 3 17 Nov – 24 Nov (1 issue)
0 1 0
Complete sprint
Implement data augmentation techniques to improve accuracy of the model.
VD-10 Implement data augmentation techniques to improv...
TRAINING
IN PROGRESS
1
KL
Create issue
Share this window
Sprint 4 22 Nov – 24 Nov (2 issues)
0 1 2
Complete sprint
27°C
Mostly cloudy
Search
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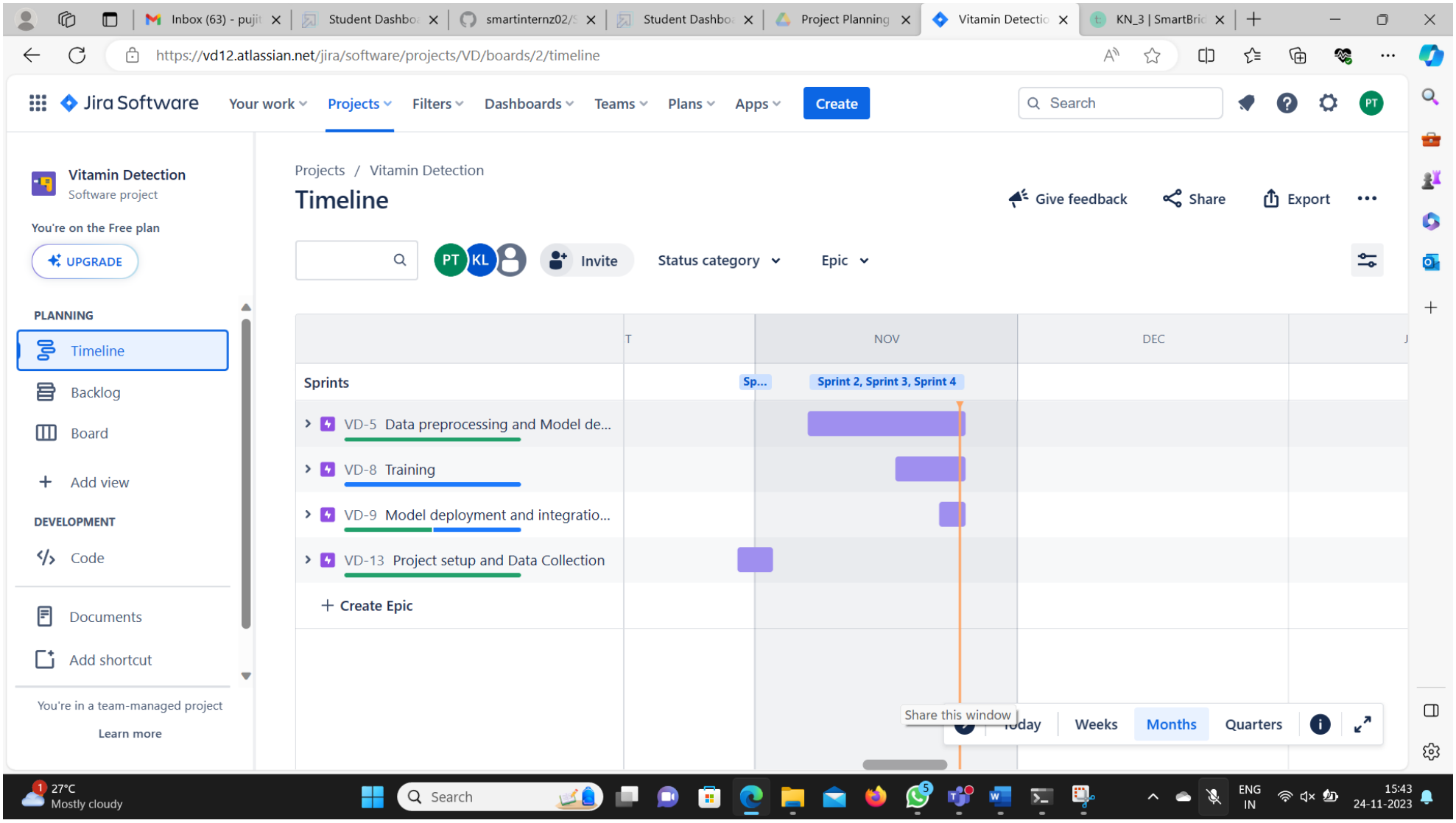
24-11-2023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Sprints
Sp...
Sprint 2, Sprint 3, Sprint 4
VD-5 Data preprocessing and Model de...
VD-8 Training
VD-9 Model deployment and integratio...
VD-13 Project setup and Data Collection
Create Epic
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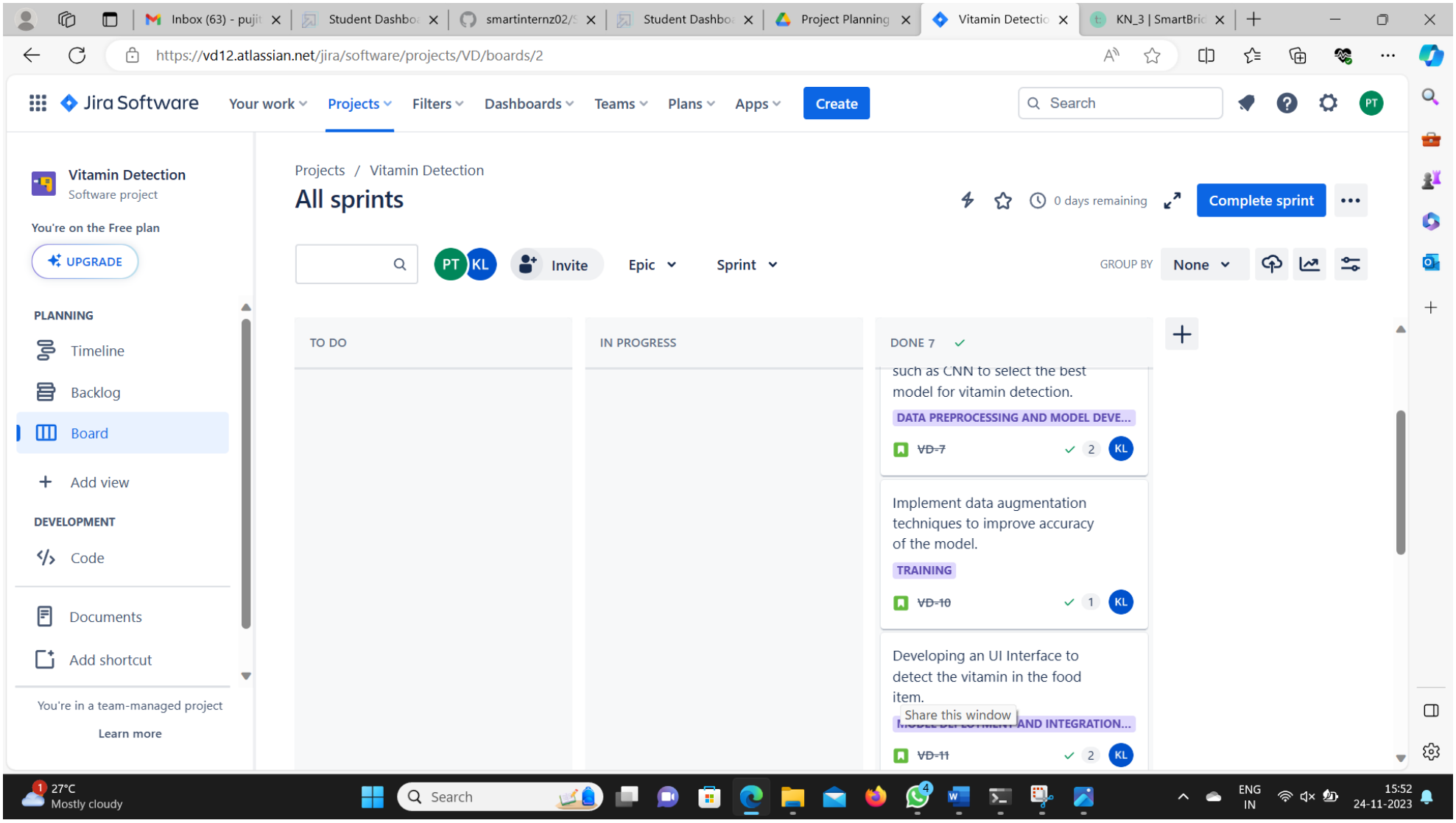
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All sprints
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TO DO
IN PROGRESS
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such as CNN to select the best model for vitamin detection.
DATA PREPROCESSING AND MODEL DEVE...
VD-7
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Implement data augmentation techniques to improve accuracy of the model.
TRAINING
VD-10
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Developing an UI Interface to detect the vitamin in the food item.
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AND INTEGRATION...
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