# Project Planning Phase

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

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|---|---|
| Date | 06 November 2023 |
| Team ID | Team-591587 |
| Project Name | ASL- Alphabet Image Recognition |
| 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 | Image Preprocessing | US001 | Develop image resizing | 2 | High | Tharun |
| Sprint 1 | Image Preprocessing | US002 | Implement data augmentation | 1 | High | Tharun |
| Sprint 1 | Feature Extraction | US003 | Extract features using CNN | 2 | Medium | Tharun |
| Sprint 2 | Model Development | US004 | Build CNN model | 2 | High | Hari |
| Sprint 2 | Model Development | US005 | Train the CNN model | 4 | High | Hari |

| | | | | | | |
|---|---|---|---|---|---|---|
| Sprint 2 | Model Development | US006 | Test model performance | 3 | High | Hari |
| Sprint 3 | Integration & Deployment | US007 | Integrate model with application | 4 | Medium | Tharun, Hari |
| Sprint 3 | Integration & Deployment | US008 | Deploy on cloud | 3 | Medium | Tharun, Hari |
| Sprint 4 | Model Optimization | US009 | Optimize CNN model | 2 | Medium | Tharun, Hari |
| Sprint 4 | Model Optimization | US010 | Fine-tune hyperparameters | 2 | High | Hari |
| Sprint 4 | Error Analysis | US011 | Perform error analysis | 2 | High | Hari |
| Sprint 5 | Model Evaluation | US012 | Evaluate model performance | 2 | Medium | Hari |
| Sprint 5 | Model Evaluation | US013 | Compare with benchmarks | 5 | High | Tharun |
| Sprint 5 | Documentation | US014 | Prepare project documentation | 3 | High | Tharun |
| Sprint 6 | User Interface Development | US015 | Design UI for image recognition | 1 | Medium | Tharun |
| Sprint 6 | User Interface Development | US016 | Implement UI functionality | 1 | High | Hari |
| Sprint 6 | User Acceptance Testing | US017 | Conduct user testing | 2 | High | Tharun |

**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 | 06 Oct 2023 | 10 Nov 2023 | 5 | 10 Nov 2023 |
| Sprint-2 | 8 | 4 Days | 07 Oct 2023 | 15 Nov 2023 | 8 | 15 Nov 2023 |
| Sprint-3 | 7 | 2 Days | 08 Nov 2023 | 15 Nov 2023 | 7 | 15 Nov 2023 |
| Sprint-4 | 6 | 7 Days | 09 Nov 2023 | 15 Nov 2023 | 6 | 15 Nov 2023 |
| Sprint-5 | 10 | 7Days | 10 Nov 2023 | 17 Nov 2023 | 10 | 17 Nov 2023 |
| Sprint-6 | 4 | 3 Days | 11 Nov 2023 | 14 Nov 2023 | 4 | 14 Nov 2023 |

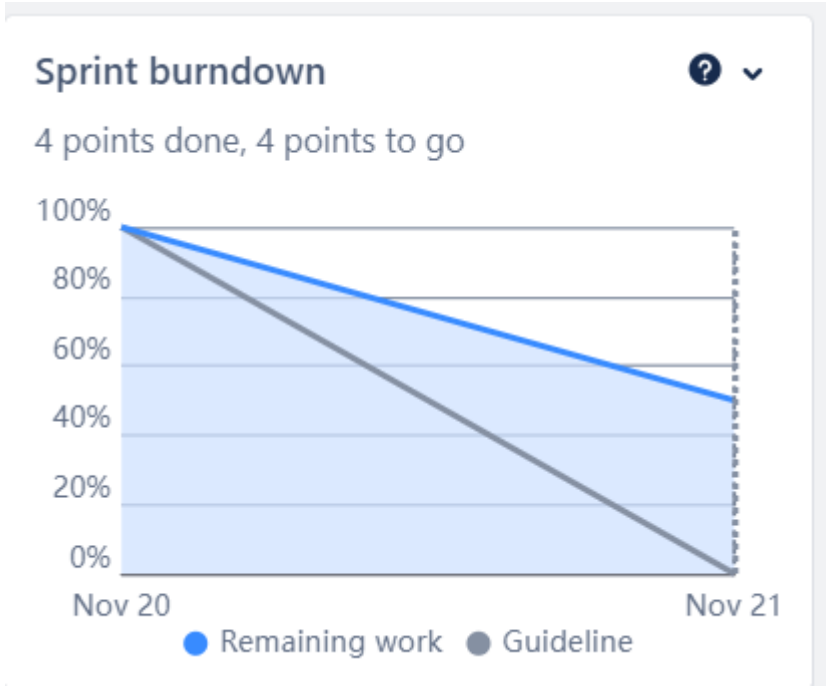
**Velocity:**

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)

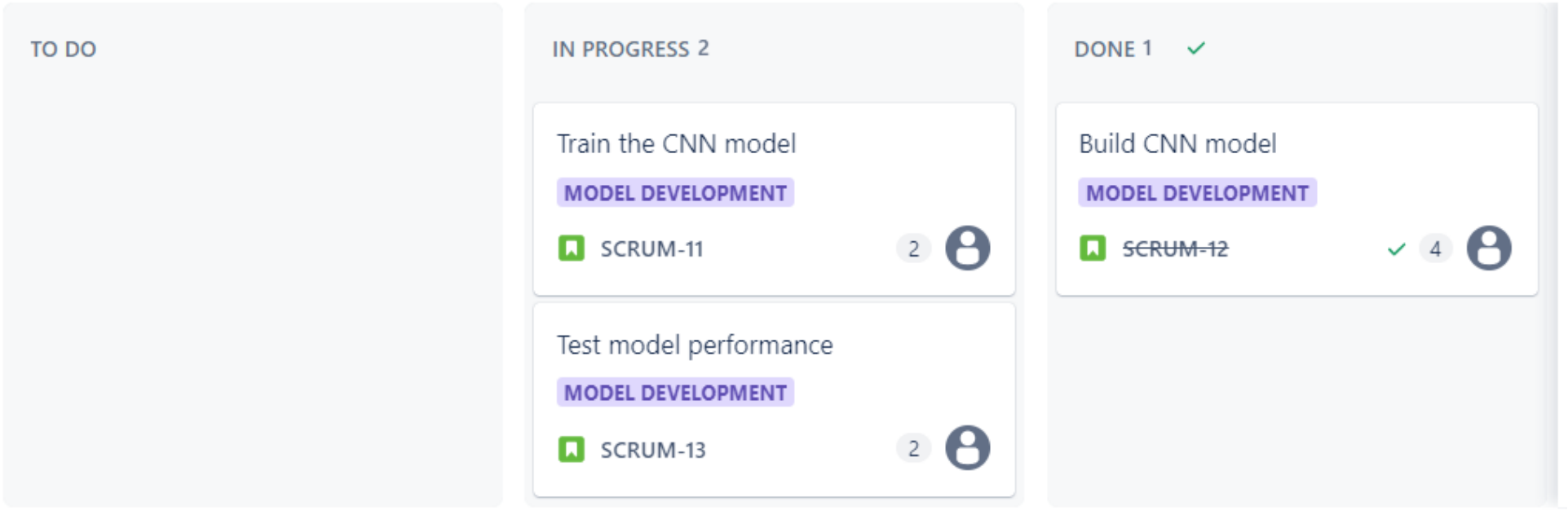
$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

**Burndown Chart:**

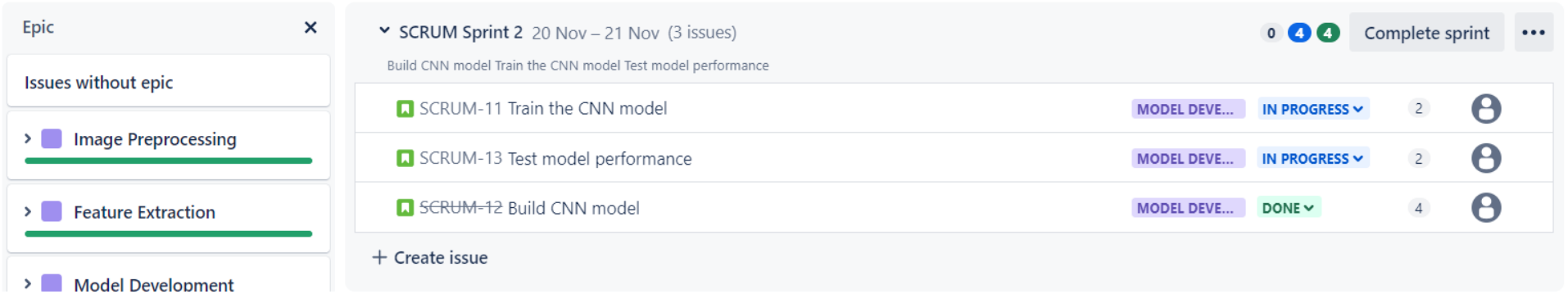
A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.




Board section:




Backlog section:


Epic
Issues without epic
Image Preprocessing
Feature Extraction
Model Development
SCRUM Sprint 2 20 Nov – 21 Nov (3 issues)
0 4 4
Complete sprint
Build CNN model Train the CNN model Test model performance
SCRUM-11 Train the CNN model
MODEL DEVE...
IN PROGRESS
2
SCRUM-13 Test model performance
MODEL DEVE...
IN PROGRESS
2
SCRUM-12 Build CNN model
MODEL DEVE...
DONE
4
Create issue

Timeline:

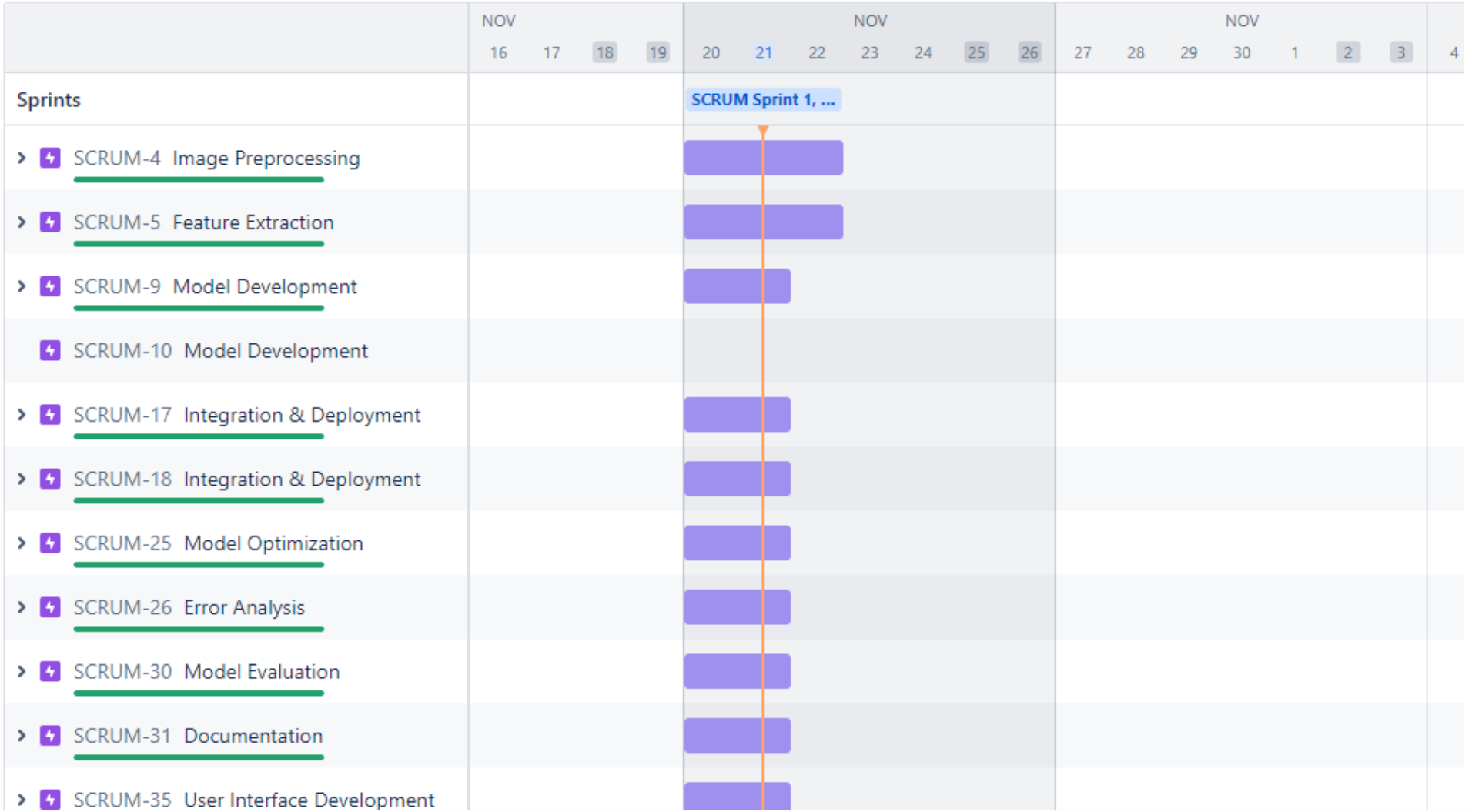
Projects / My Scrum Project

# Timeline

BT

Status category

Epic



https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

**Reference:**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https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

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