# Project Planning Phase

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

| | |
|---|---|
| Date | 29-10-2023 |
| Team ID | Team-591621 |
| Project Name | Project - Lip Reading using Deep Learning |
| Maximum Marks | 4 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 & Infrastructure | USN-1 | Set up the development environment with the required tools and frameworks to start the Lip Reading Project | 1 | High | Akash P |
| Sprint-2 | Data Collection | USN-2 | Gather a diverse dataset of images and videos along with their movement data for training the LSTM model. | 2 | High | Whole Team |
| Sprint-2 | Data Preprocessing | USN-3 | Preprocess the collected dataset by normalizing pixel values, and splitting it into training and validation sets. | 2 | High | Dhanush, Prajagar |

| | | | | | | |
|---|---|---|---|---|---|---|
| Sprint-3 | Model Development | USN-4 | Explore and evaluate LSTM models with different parameters to select the most suitable model for Lip Reading using Deep Learning. | 5 | High | Venkatesh, Akash |
| Sprint-3 | Training | USN-5 | Train the selected LSTM model using the preprocessed dataset and monitor its performance on the validation set. | 5 | High | Dhanush, Prajagar |
| Sprint-4 | App Design | USN-6 | Design a simple, intuitive, easy to navigate with clear icons and large text mobile application | 2 | Medium | Whole Team |
| Sprint-4 | App Development | USN-7 | Develop the mobile application following the design and test its functioning. | 4 | Medium | Akash, Venkatesh |
| Sprint-5 | Model Deployment | USN-8 | Deploy the trained LSTM model as an API on Google Cloud Platform. | 3 | Medium | Prajagar, Akash |
| Sprint-5 | Model Integration | USN-9 | Integrate the model's API into a user-friendly application for users to upload their images or videos and receive the results. | 2 | Medium | Venkatesh, Dhanush |
| Sprint-6 | Testing and Quality Assurance | USN-10 | Test the functioning capabilities of the application developed and make sure everything works as planned and improve upon feedback. | 1 | Low | Whole Team |

**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 | 1 | 1 | 24 Oct 2023 | 24 Oct 2023 | 1 | 24 Oct 2023 |
| Sprint-2 | 4 | 1 | 25 Oct 2023 | 25 Oct 2023 | 4 | 25 OCt 2023 |
| Sprint-3 | 10 | 5 | 26 Oct 2023 | 30 Oct 2023 | | |
| Sprint-4 | 6 | 4 | 31 Oct 2023 | 3 Nov 2023 | | |
| Sprint-5 | 5 | 1 | 4 Nov 2023 | 4 Nov 2023 | | |
| Sprint-6 | 1 | 2 | 5 Nov 2023 | 6 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)

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

**AV= 27/14 = 1.92**

**Burndown Chart:**

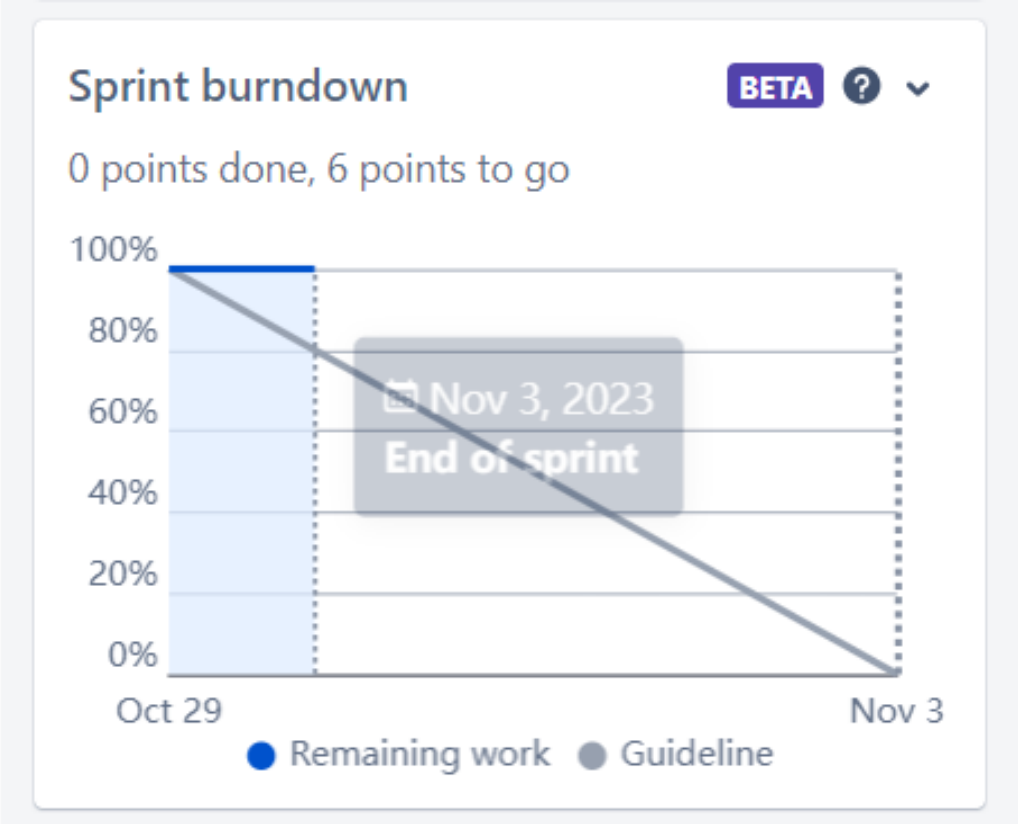
A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

**https://www.visual-paradigm.com/scrum/scrum-burndown-chart/**
**https://www.atlassian.com/agile/tutorials/burndown-charts**

**Reference:**

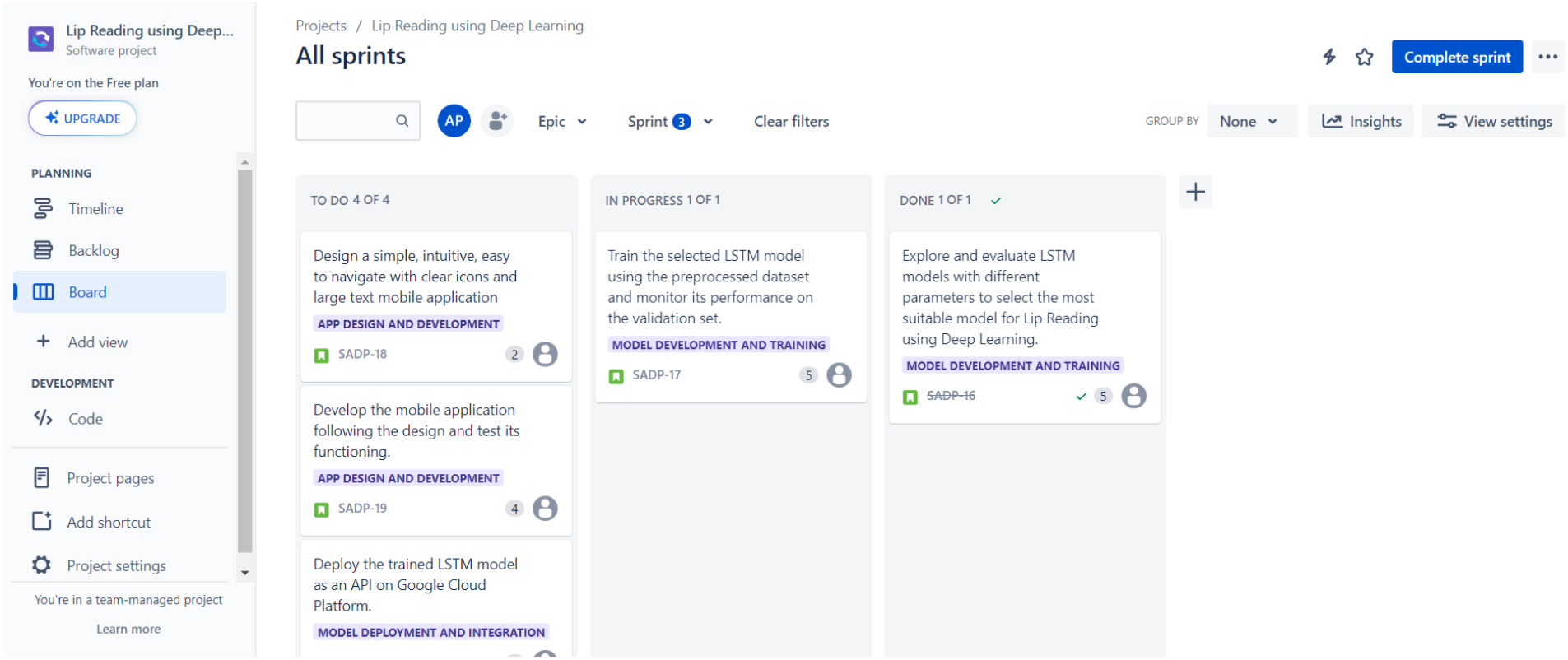
**https://www.atlassian.com/agile/project-management**
**https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software**
**https://www.atlassian.com/agile/tutorials/epics**
**https://www.atlassian.com/agile/tutorials/sprints**
**https://www.atlassian.com/agile/project-management/estimation**
**https://www.atlassian.com/agile/tutorials/burndown-charts**

**Burndown Chart:**

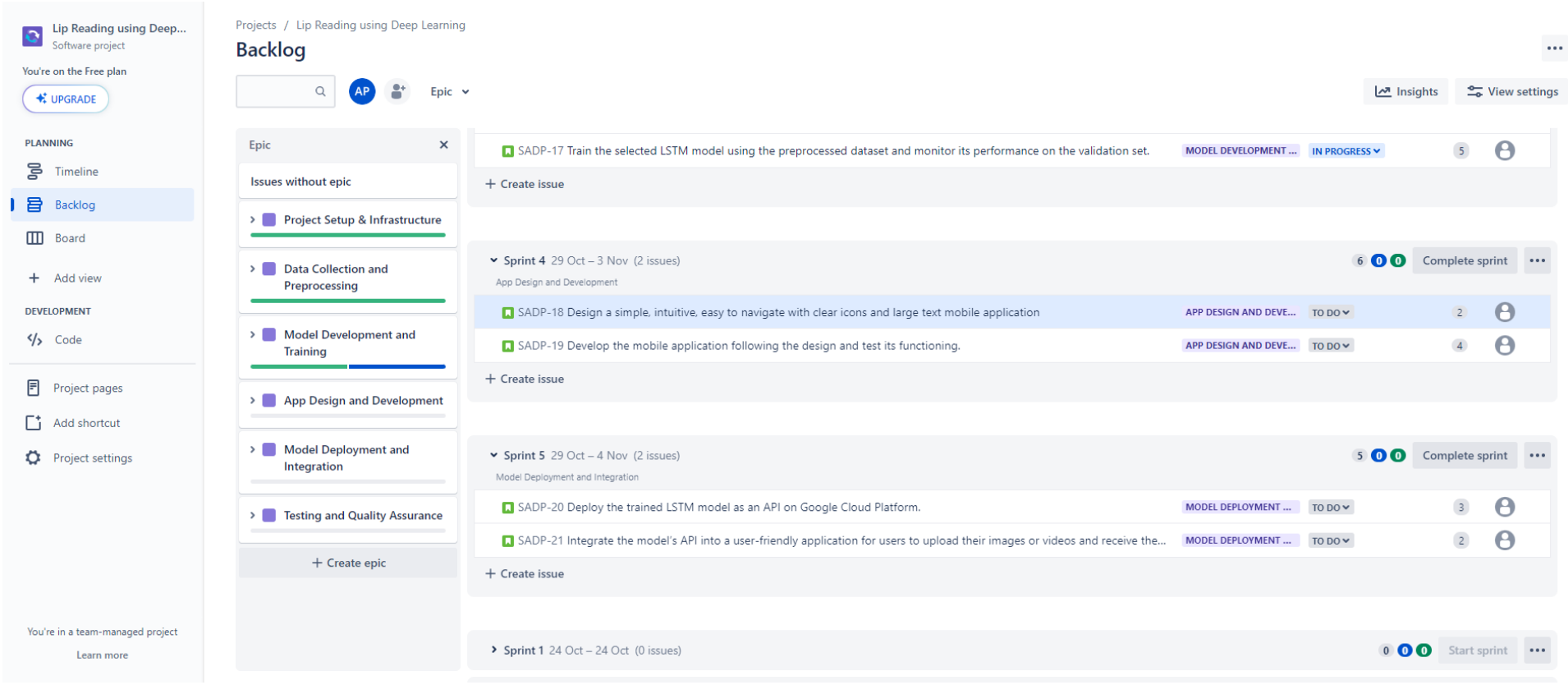


**Board section.**

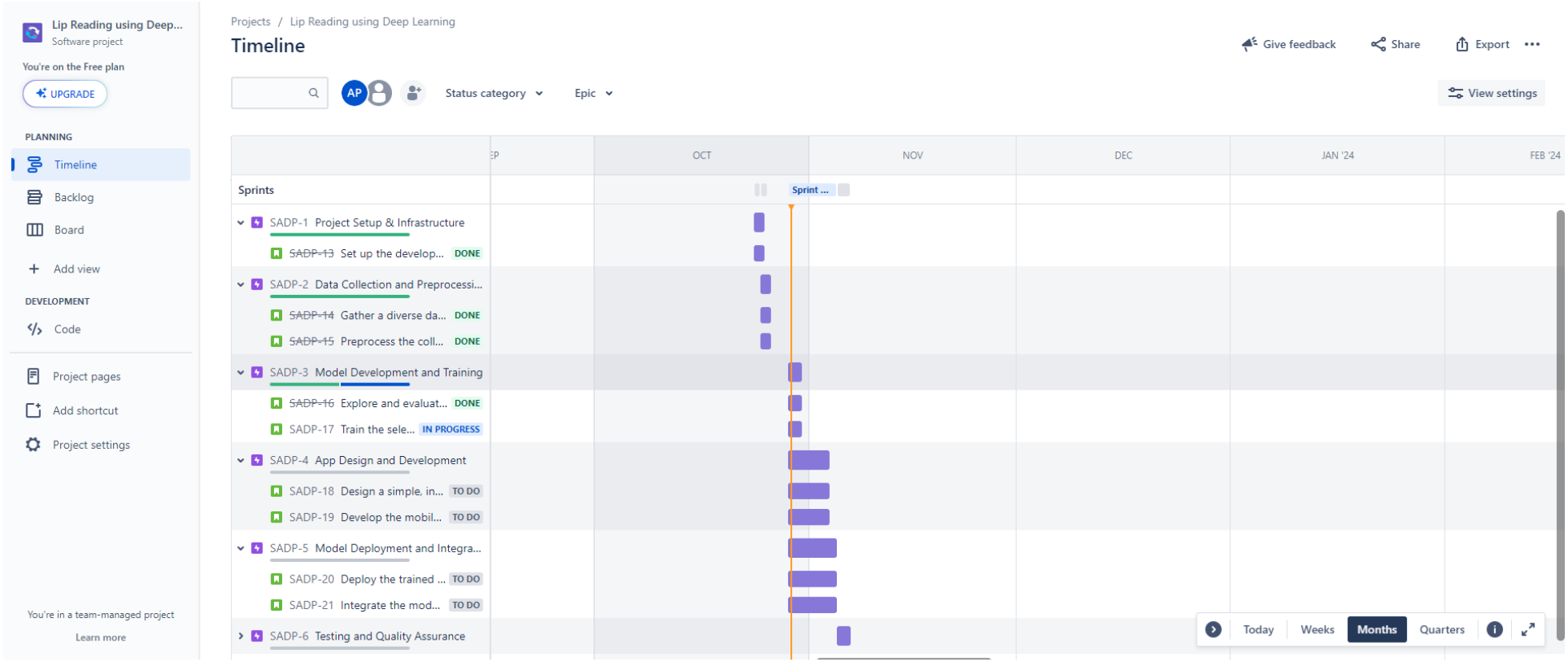
We have completed sprint 1 and 2. So we can see the remaining tasks on board.



## Backlog section



# Timeline


Lip Reading using Deep...
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
Projects / Lip Reading using Deep Learning
Timeline
Give feedback
Share
Export
AP
Status category
Epic
View settings
OCT
NOV
DEC
JAN '24
FEB '24
Sprints
Sprint ...
SADP-1 Project Setup & Infrastructure
SADP-13 Set up the develop... DONE
SADP-2 Data Collection and Preprocessi...
SADP-14 Gather a diverse da... DONE
SADP-15 Preprocess the coll... DONE
SADP-3 Model Development and Training
SADP-16 Explore and evaluat... DONE
SADP-17 Train the sele... IN PROGRESS
SADP-4 App Design and Development
SADP-18 Design a simple, in... TO DO
SADP-19 Develop the mobil... TO DO
SADP-5 Model Deployment and Integra...
SADP-20 Deploy the trained ... TO DO
SADP-21 Integrate the mod... TO DO
SADP-6 Testing and Quality Assurance
Today
Weeks
Months
Quarters