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

| Date | 08 November 2023 |
|---|---|
| Team | Team – 592796 |
| Project Name | Alzheimer Disease Prediction |
| Maximum Marks | 20 Marks |

## Product Backlog, Sprint Schedule, and Estimation

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint 1 | Project setup & Development Environment | USN-1 | Set up the necessary infrastructure for the Alzheimer's disease prediction project using deep learning. | 3 | Medium | Arun |
| Sprint 1 | Project setup & Development Environment | USN-2 | Set up the development environment with the required tools and frameworks to start the Alzheimer's disease prediction project using deep learning. | 2 | Medium | Jithu |
| Sprint 2 | Data Collection and Preprocessing | USN-3 | Gather a diverse dataset of medical imaging data, genetic information, and cognitive assessments for training the deep learning model for Alzheimer's disease prediction. | 5 | High | Saathwick |

| Sprint | | USN | | Story Points | Priority | Assignee |
|---|---|---|---|---|---|---|
| Sprint 2 | Data Collection and Preprocessing | USN-4 | Preprocess the collected dataset by cleaning, normalizing, and transforming the data to make it suitable for training the deep learning model. | 5 | High | Mahaashwath |
| Sprint 3 | Model Development and Training | USN-5 | Explore and evaluate different deep learning architectures (e.g., CNNs, RNNs) to select the most suitable model for Alzheimer's disease prediction. | 7 | High | Arun |
| Sprint 3 | Model Development and Training | USN-6 | Train the selected deep learning model using the pre-processed dataset and monitor its performance on a validation set. | 8 | High | Jithu |
| Sprint 4 | Model Deployment and Testing | USN-7 | Deploy the trained deep learning model as an API or web service to make it accessible for Alzheimer's disease prediction. | 3 | High | Mahaashwath |
| Sprint 4 | Model Deployment and Testing | USN-8 | Integrate the model's API into a user-friendly web interface for users to input relevant data and receive Alzheimer's disease prediction results. | 3 | Medium | Jithu |
| Sprint 4 | Model Deployment and Testing | USN-9 | Conduct thorough testing of the model and web interface to identify and report any issues or bugs. Fine-tune the model's hyperparameters and optimize its performance based on user feedback and testing results. | 2 | Medium | Saathwick |
| Sprint 4 | Model Deployment and Testing | USN-10 | Fine-tune the model's hyperparameters and optimize its performance based on user feedback and testing results. | 2 | Medium | Arun |

## Project Tracker, Velocity & Burndown Chart

| 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 | 1 Day | 07 Nov 2023 | 08 Nov 2023 | 5 | 08 Nov 2023 |
| Sprint 2 | 10 | 1 Day | 08 Nov 2023 | 09 Nov 2023 | 15 | 09 Nov 2023 |
| Sprint 3 | 15 | 4 Days | 09 Nov 2023 | 12 Nov 2023 | 25 | 12 Nov 2023 |
| Sprint 4 | 10 | 3 Days | 12 Nov 2023 | 14 Nov 2023 | 35 | 14 Nov 2023 |

## Velocity

$V1$(**Sprint 1)** = 1 / 5 = 0.20

$V2$(**Sprint 2)** = 1 / 10 = 0.10

$V3$(**Sprint 3)** = 4 / 15 = 0.27

$V4$(**Sprint 4)** = 3 / 10 = 0.30

Total Sprint Duration = 9 Days

Total Velocity = 35 points

**Average Velocity (AV)** = **Sprint Duration / Velocity** = (1+1+4+3) / (5+10+15+10) = 0.26

## Burndown Chart
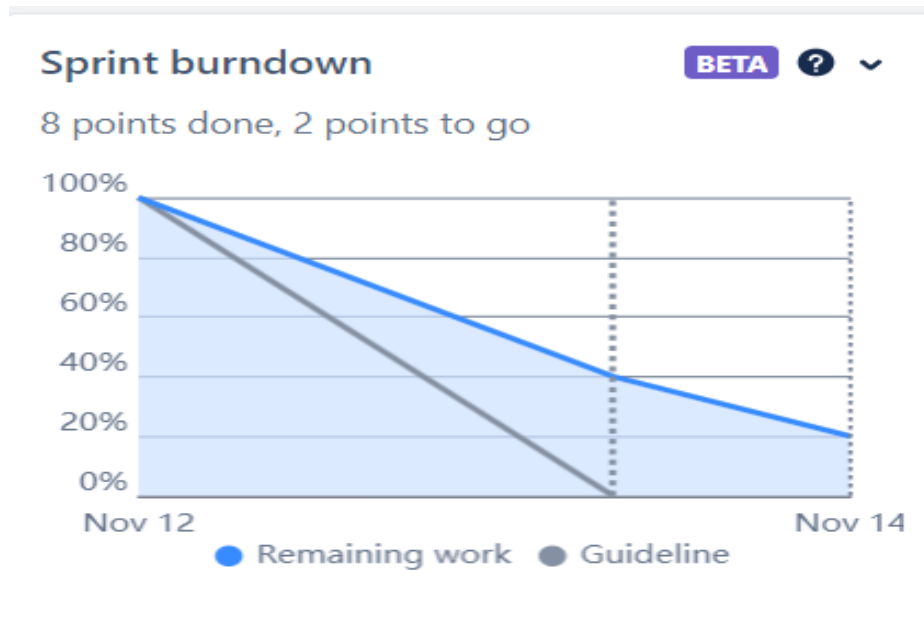
## Board

# Backlog

Projects / Alzheimer Disease Prediction Project

## Backlog

Invite    Epic ⌄                              Import work    Insights    View settings

**PLANNING**

- Timeline
- Backlog
- Board
- Reports
- Issues
- Add view

**DEVELOPMENT**

- Code

- Project pages
- Add shortcut

Alzheimer Disease Predi...
Software project

You're on the Free plan

UPGRADE

You're in a team-managed project
Learn more

### Epic ✕

Issues without epic

› Project setup & Development Environment

› Data Collection and Preprocessing

› Model Development and Training

› Model Deployment and Testing

+ Create epic

⌄ ADPP Sprint 4  12 Nov – 14 Nov  (4 issues)                    0  2  8    Complete sprint    ...

📌 ~~ADPP-13~~ Deploy the trained deep learning model as an API or web service to m...    MODEL DEPL...    DONE ⌄    3    M

📌 ~~ADPP-14~~ Integrate the model's API into a user-friendly web interface for users t...    MODEL DEPL...    DONE ⌄    3

📌 ~~ADPP-15~~ Conduct thorough testing of the model and web interface to identify ...    MODEL DEPL...    DONE ⌄    2    SS

📌 ADPP-16 Fine-tune the model's hyperparameters and optimize its performance...    MODEL DEPL...    IN PROGRESS ⌄    2

+ Create issue

› Backlog  (0 issues)                    0  0  0    Create sprint

💡 Quickstart  ✕

## Timeline