Project Planning Phase

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

| Date | 27 October 2023 |
|---------------|--------------------------------|
| Team ID | Team-591900 |
| Project Name | Alzheimer's Disease Prediction |
| Maximum Marks | 8 Marks |

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

| Sprint | Functional Requirement (Epics) | User Story Number | User Story / Task | Story Point | Priority | Team Members |
|----------|-----------------------------------|----------------------|---|----------------|----------|-----------------|
| Sprint-1 | Project Setup & Infrastructure | USN-1 | Plan for the real-world need of model. The targeted audience and their needs. | 1 | High | Akash |
| Sprint-1 | Development environment | USN-2 | Setup the development environment with the required tools and frameworks to start the Alzheimer's Disease prediction project. | 2 | High | Ayush |
| Sprint-2 | Data collection | USN - 3 | Gather a diverse dataset of images containing different medical images of brain (MRI, CT) for training the DL model | | High | Deepti |

| Sprint-2 | Data preprocessing | USN - 4 | Preprocess the collected dataset by resizing images, normalizing pixel values, and splitting into training and validation sets. | 3 | High | Akash |
|----------|----------------------------------|---------|--|---|--------|--------|
| Sprint-3 | Model development | USN-5 | Explore and evaluate different deep learning architectures to select the most suitable model for Alzheimer's prediction. | 4 | High | Deepti |
| Sprint-3 | Training | USN-6 | Train the selected DL models using the preprocessed dataset and monitor its performance on validation dataset. | 5 | High | Ayush |
| Sprint-3 | Testing | USN-7 | Implement data augmentation techniques to improve the model's robustness and accuracy | 3 | Medium | Deepti |
| Sprint-4 | Model deployment and Integration | USN-8 | Deploy the trained DL model as an API or web service to make is accessible for Alzheimer's prediction, integrate the model's API into a user-friendly web interface for users to upload images and receive results | | | Akash |
| Sprint-5 | Testing & quality assurance | | | 1 | Medium | Ayush |

Project Tracker, Velocity & Burndown Chart: (4 Marks)

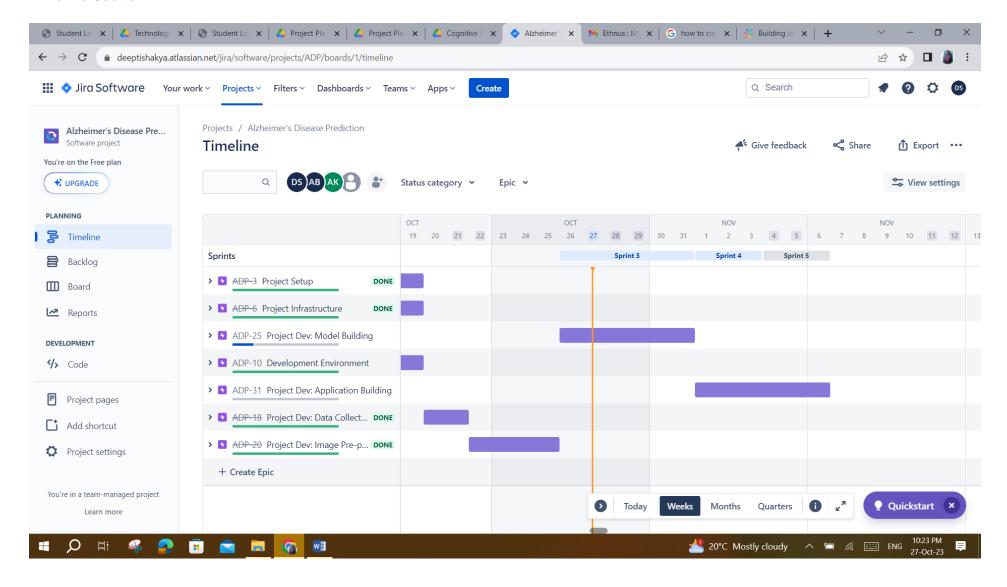
| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date (Actual) |
|----------|-----------------------|----------|-------------------|------------------------------|---|------------------------------|
| Sprint-1 | 3 | 4 Days | 16 Oct 2023 | 19 Oct 2023 | 3 | 19 Oct 2023 |
| Sprint-2 | 5 | 6 Days | 20 Oct 2023 | 25 Oct 2023 | 5 | 25 Oct 2023 |
| Sprint-3 | 9 | 6 Days | 26 Oct 2023 | 31 Oct 2023 | | |
| Sprint-4 | 1 | 3 Days | 1 Nov 2023 | 3 Nov 2023 | | |
| Sprint-5 | 1 | 2 Days | 4 Nov 2023 | 6 Nov 2023 | | |

Velocity:

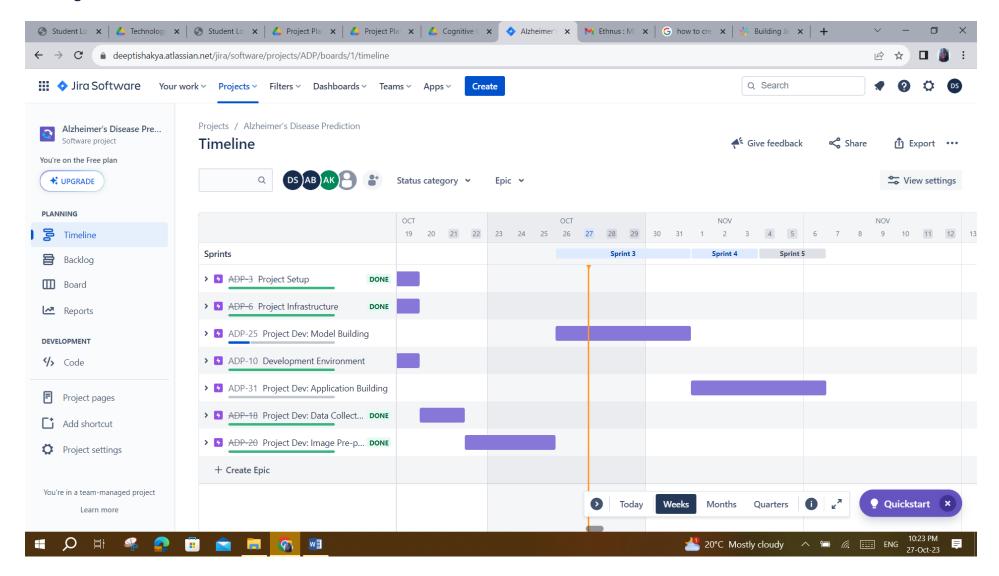
$$AV = \frac{Sprint\ duration}{Velocity}$$

$$=\frac{21}{19}=1.105$$

Timeline Section:



Backlog Section:



Board Section:

