

Technology Stack (Architecture & Stack)

Date	19 November 2023
Team ID	593035
Project Name	Deep Learning Model For Eye Disease Prediction
Maximum Marks	4 Marks

Technical Architecture:

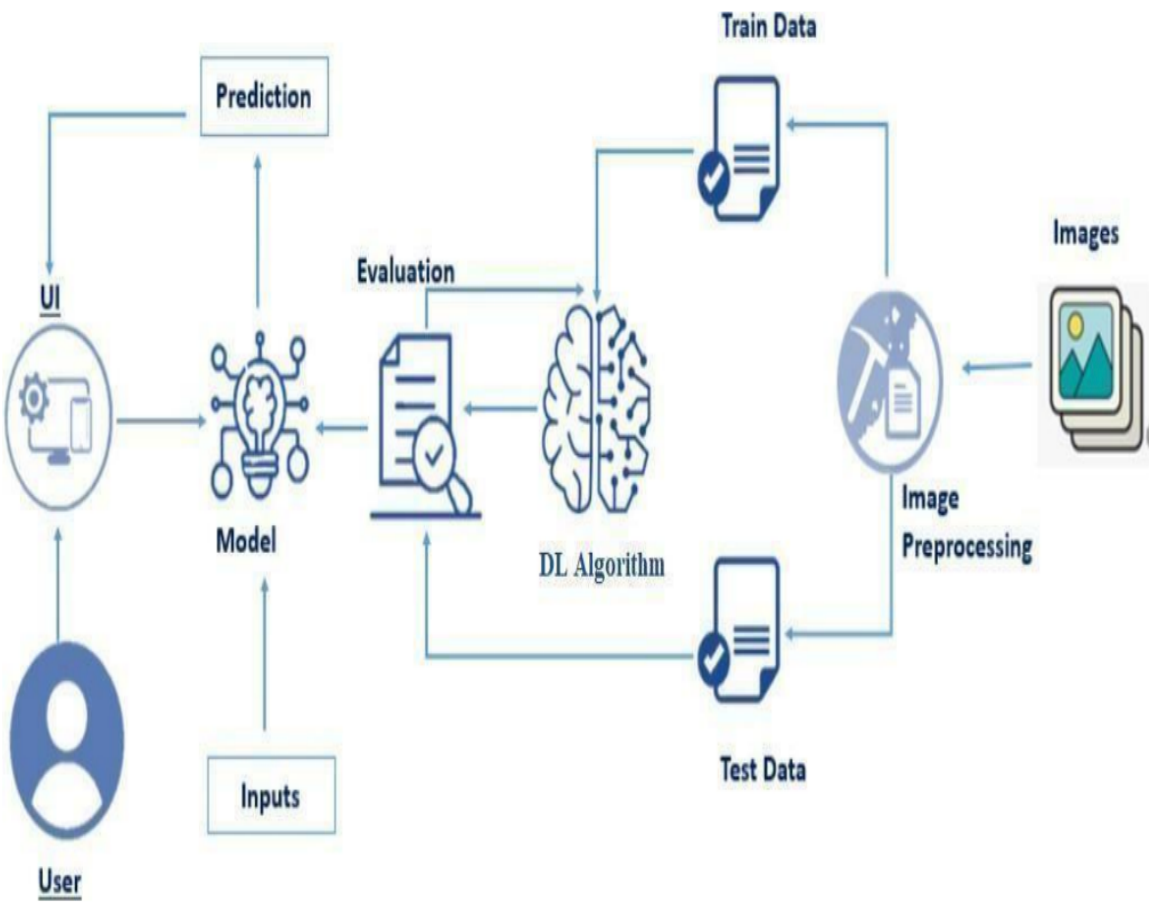


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web application, mobile app	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Deep learning model for eye disease prediction	Python, TensorFlow
3.	Application Logic-2	Image upload and processing	Python
4.	Application Logic-3	User registration, authentication, and management	Python, Flask
10.	Machine Learning Model	VGG19 deep learning model for eye disease prediction	TensorFlow, Keras.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	TensorFlow, Keras, Flask, , AngularJS/ReactJS	TensorFlow: Deep learning framework Keras: High-level neural networks API Flask: Web development framework AngularJS/ReactJS: JavaScript frameworks for building user interfaces
2.	Security Implementations	NIL	NIL
3.	Scalable Architecture	NIL	NIL

S.No	Characteristics	Description	Technology
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4.	Availability	Load balancers	Localhost.
5.	Performance	Caching	The application will use caching to store frequently accessed data, reducing the load on the database and improving response times.

References:

<https://www.mathworks.com/help/deeplearning/ref/vgg19.html#>

<https://towardsdatascience.com/convolutional-neura>

Project Planning Phase

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

Date	20 November 2023
Team ID	593035
Project Name	Deep Learning Model For Eye Disease Prediction
Maximum Marks	8 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	Eye Disease Prediction	USN-1	.As a user, I can upload an image of my eye to the application and receive a prediction of whether I have an eye disease	3	High	Srikar, Nikhil
Sprint-1		USN-2	As a user, I can learn more about a specific eye disease.	2	Low	our friend lokesh

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

Sprint	Total Story Points	Durati on	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	4 Nov 2023	10 Nov 2023	14	8 Nov 2023
Sprint-2	20	6 Days	14 Nov 2023	20 Nov 2023	20	20 Nov 2023

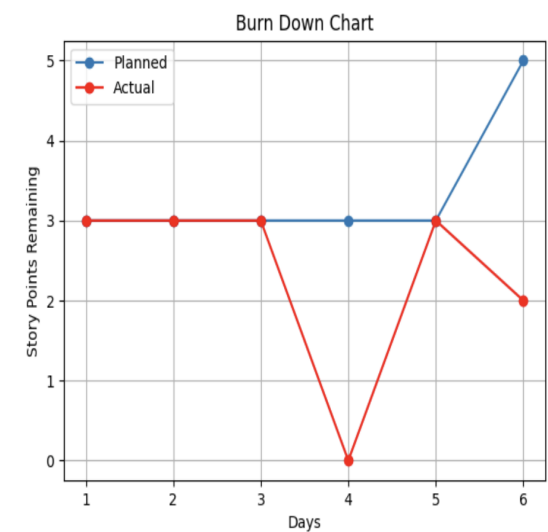
Velocity:

Sprint-1=> $14/6=2.3$

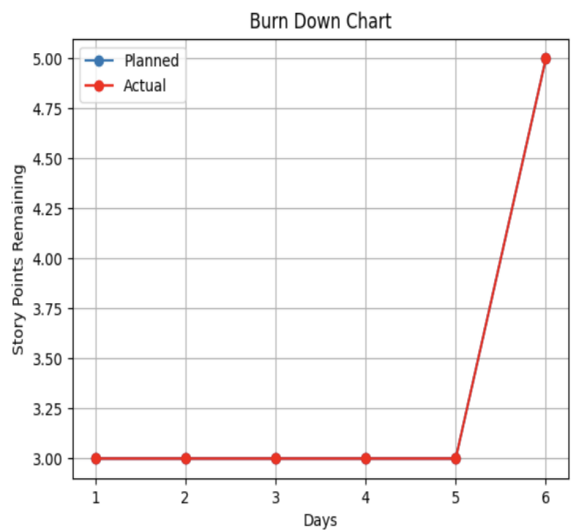
Sprint-2=> $20/20=1$

Burndown Chart:

Sprint-1



Sprint-2



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>