Project Planning Phase

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

Date	28 October 2022
Team ID	PNT2022TMID31767
Project Name	Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy
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	Data collection	Task-1	To build a Deep learning Model which begins with the process of splitting data into training and testing set.	4	Medium	Sakthivel S & Kirthik A
Sprint-1	Data preprocessing	Task-2	We import the required libraries for preprocessing. We instantiate the ImageDataGenerator class to configure and augment different types of image data.	5	Low	Kirthik A
Sprint-1	Data Preprocessing	Task-3	Application of the ImgaeDataGenerator to the Train and Test Set.	7	Medium	Kirthik A
Sprint-1	Building Homepage	USN-1	As a user, she will be given a brief description in the homepage.	4	Low	Venkatesh M
Sprint-2	Feature Extraction	Task-4	Build a CNN Model and only use it as a feature extraction by freezing the convolution blocks.	8	High	Sakthivel S & Kirthik A
Sprint-2	Building the layers	Task-5	Adding of dense layers with the aid of Keras Addition of optimizers,choosing loss function and the metrics.	7	High	Venkatesh M & Noel Mathew Cherian
Sprint-2	Train, Save,Test	Task-6	To train the model with the configured neural Network and save the model.Test the built model	3	High	Sakthivel S & Noel Mathew Cherian

Sprint-2	Building Registration page	USN-2	As a user, she will be able to register for the application.	2	Low	Venkatesh M & Noel Mathew Cherian
Sprint-3	Create Service Instance	Task-7	Configure the location of resources, such as web server, and Cloud Storage for an application	7	High	Kirthik A & Venkatesh M
Sprint-3	Configuring credentials and creating DB	Task-8	Define the credentials that are required to access the services offered by IBM Cloudant and add users to access the DB.	6	High	Sakthivel S & Venkatesh M
Sprint-3	Create Tables in DB	Task-9	Structure the required tables with necessary attributes in Cloudant DB.	4	Medium	Kirthik A
Sprint-3	Building Login Page	USN-3	As a user, she will be able to login using her credentials.	3	Low	Venkatesh M & Noel Mathew Cherian
Sprint-4	Building prediction page	USN-4	As a user, she will be able to receive the diagnosis on her diabetic retinopathy.	2	Medium	Venkatesh M & Noel Mathew Cherian
Sprint-4	Building Logout Page	USN-5	As a user, she will be able to logout of her account in this page. .	2	Medium	Venkatesh M & Noel Mathew Cherian
Sprint-4	Build python code	Task-9	Import the libraries and Initialise the necessary modules	1	Medium	Sakthivel S & Venkatesh M
Sprint-4		Task-10	Use the database using initiated client and rendering HTML pages	2	Medium	Venkatesh M
Sprint-4		Task-11	Configuring the registration, login pages and validating the credentials.	2	Medium	Venkatesh M

Sprint-4		Task-12	Showcasing the model’s prediction on UI.	1	High	Sakthivel S
Sprint-4	Run the application.	Task-13	Run the application in the anaconda prompt to check the application.	2	High	Kirthik A & Noel Mathew Cherian
Sprint-4		Task-14	In the homepage, after logging on using credentials, upload the image to predict the diagnosis on diabetic retinopathy.	5	High	Sakthivel S
Sprint-4	Train Model On IBM	Task-15	train the model on IBM and integrate it with the flask Application.	3	High	Sakthivel S