

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	18October 2022
Team ID	PNT2022TMID52149
Project Name	Deep Learning Fundus Image Analysis For Early Detection Of Diabetic Retinopathy.
Maximum Marks	8 Marks

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

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	Task-1	In Deep Learning Model, It can be spilt into Testing and Training set.	4	Medium	K.Yoka muthu nivethitha T.Thanusha
Sprint-1	Data Pre-processing	Task-2	Import the required data for pre-processing. Application of the image data generator to the train and test set.	7	Low	A.Thanga Abiya K.Yoka muthu nivethitha T.Thanusha
Sprint-1	Build Homepage	USN-1	Homepage give the brief description to the user.	4	Medium	A.Thanga Abiya K.Yoka muthu nivethitha
Sprint-2	Create Registration page	USN-2	In this page, User will able to register for the application.	2	Low	T.Thanusha A.Thanga abiya

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Train,Save,Test	Task-3	To train the model with the configured neural network and save the model. Test the build model against the testing dataset.	3	High	A.Thanga Abiya K.Yoka muthu nivethitha
Sprint-3	Create Service Instance	Task-4	Configure the location of resource such as web server and cloud storage for an application.	7	High	A.Thanga Abiya K.Yoka muthu nivethitha T.Thanusha
Sprint-3	Creating Database	Task-5	IBM Cloud, offered the required credentials to access the services and the database accessed by the users.	6	High	A.Thanga Abiya K.Yoka muthu nivethitha T.Thanusha
Sprint-3	Creating Tables in Database	Task-6	Structure the required tables with necessary attributes in cloud DB.	4	Medium	K.Yoka muthu nivethitha T.Thanusha

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Building login page	USN-3	User will be able to login by using the credentials.	3	Low	A.Thanga Abiya K.Yoka muthu nivethitha T.Thanusha
Sprint-4	Create Image	Task-7	Upload the test image	2	Low	K.Yoka

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
	uploading page					muthu nivethitha T.Thanusha
Sprint-4	Building Prediction page	USN-4	User able to receive the diagnosis on their diabetic retinopathy.	2	Medium	K.Yoka muthu nivethitha T.Thanusha
Sprint-4	Building logout page	USN-5	User will be able to logout their account in this Page.	2	Medium	A.Thanga Abiya T.Thanusha
Sprint-4	Build Python code	Task-8	The Necessary modules should be initialize and the libraries should be imported.	1	Medium	T.Thanusha
Sprint-4		Task-9	Use the database using initiating client and rendering HTML page.	2	Medium	A.Thanga Abiya T.Thanusha
Sprint-4		Task-10	Configuring the registration, login pages and evaluating the credentials.	2	Medium	A.Thanga Abiya K.Yoka muthu nivethitha T.Thanusha
Sprint-4		Task-11	The model prediction will be showcased on UI.	1	High	T.Thanusha A.Thnaga abiya
Sprint-4	Run the Application	Task-12	Run to check the application.	2	High	T.Thanusha A.Thanga abiya

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4		Task-13	Upload image in the homepage to predict the diabetic retinopathy.	5	High	
Sprint-4	Train model on IBM	Task-14	Train the model on IBM and integrate it with the flask application.	3	High	A.Thanga Abiya K.Yoka muthu nivethitha T.Thanusha

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	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	5 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Imagine we have a 10-day 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)

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

Burndown Chart:

A burn down 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.

