

ProjectPlanningPhase

ProjectPlanningTemplate (ProductBacklog,SprintPlanning, Stories,Story points)

Date	28 October 2022
TeamID	PNT2022TMID44944
ProjectName	ClassificationOfArrhythmiaByUsing DeepLearningWith2-DECGSpectrallImageRepresentation
MaximumMarks	8Marks

ProductBacklog,SprintSchedule,andEstimation(4Marks)
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	Download The Dataset	USN-1	We will download the Dataset contains Six classes	2	Low	4
Sprint-1	Import The Image Data Generator Library	USN-2	We will import Image Data Generator	2	Low	4
Sprint-1	Configure Image Data Generator classes	USN-3	We will configure the Image Data Generator class	6	Medium	4
Sprint-1	Apply the Image Data Generator functionality to Train Dataset	USN-4	We will apply Image Data Generator to train dataset	10	High	4

Sprint	Functional Requirement(Epic)	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint-2	Import Libraries	USN-5	We will import required Libraries	1	Low	4
Sprint-2	Initialize the Model	USN-6	Initializing the Image recognition model	1	Medium	4
Sprint-2	Adding CNN layer	USN-7	We will add Convolutional Neural Network (CNN) used for image/object recognition and classification	4	High	4

Sprint-2	AddingDenseLayer	USN-8	WewilladdDenseLayerinwhicheach neuronreceivesinputfromalltheneurons ofprevious layer	4	High	4
Sprint-2	ConfigureThe LearningProcess	USN-9	WewillconfigureTheLearningprocess whichisamethod,mathematicallogic or algorithm that improves thenetwork's performance and/or trainingtime.	2	Medium	4
Sprint-2	TraintheModel	USN-10	Wewilltrainourmodelwithour imagedataset.Fitgeneratorfunctions usedtotrain adeeplearningneural network	4	High	4
Sprint-2	SavetheModel	USN-11	WewillsaveThemodelwith.h5 extension	2	Medium	4
Sprint-2	Testthemodel	USN-12	WewillTestthemodel throughLoaded necessarylibraries,thesavedmodel	2	Medium	4

Sprint	Functional Requirement(Epic)	User StoryNumber	UserStory/Task	Story Points	Priority	TeamMembers
Sprint-3	CreateHtmlfiles	USN-13	WeuseHTMLtocreatethefrontend partofthe webpage.	8	High	4
Sprint-3	BuildPython code	USN-14	Webuild theflask file'app.py'whichis a web framework written in python forserver-sidescripting.	8	High	4
Sprint-3	RuntheApp	USN-15	WecanruntheApp	4	Medium	4
Sprint-4	RegisterIBMCloud	USN-16	WecanregisterIBMCloud	6	Medium	4
Sprint-4	Trainthemodelon IBM	USN-17	WecanTrain OutmodelonIBM	14	High	4

ProjectTracker,Velocity&BurndownChart:(4Marks)

Sprint	Total StoryPo ints	Duratio n	Sprint StartD ate	SprintEndDate (Planned)	Story PointsComp leted(ason PlannedEn dDate)	SprintReleaseDat e(Actual)
Sprint-1	20	6Days	24Oct2022	29Oct2022	20	29Oct2022
Sprint-2	20	6Days	31Oct2022	05Nov2022	20	05Nov2022
Sprint-3	20	6Days	07Nov2022	12Nov2022	20	12Nov2022
Sprint-4	20	6Days	14Nov2022	19Nov2022	20	19Nov2022

Velocity:
To calculatetheteam’saverage velocity (AV)periteration unit

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

Where
AverageVelocity-Storypointsperday
Sprintduration -Numberofdays(Duration)forSprints
Velocity -PointsperSprint

$$A=20/6=3.3$$

Average velocity is 3.3 points
perSprint

BurndownChart:

A burndown chart is a graphical representation of work left to do over 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.

BurndownChart:

