ProjectPlanningPhase
Projectplanning template(Product Backlog,sprint planning,stories,story points)

Date	28 October 2022
TeamID	PNT2022TMID14992
ProjectName	ClassificationOfArrhythmiaByUsing DeepLearningWith2-DECGSpectralImageRepresentation
MaximumMarks	8Marks

ProductBacklog,SprintSchedule,andEstimation(4Marks)
Usethebelowtemplateto createproductbacklogandsprintschedule

Sprint	FunctionalRequirement(Epic)	User Numb	UserStory/Task	Story Points	Priority	Team Members
Sprint-1	DownloadThe Dataset	USN-1	Wewilldownloadthe Datasetcontains Sixclasses	2	Low	4
Sprint-1	ImportTheImage DataGeneratorLibrary	USN-2	WewillimportImageDataGenerator	2	Low	4
Sprint-1	ConfigureImage DataGeneratorclass	USN-3	Wewillconfigurethe ImageDataGenerat orclass	6	Mediu m	4
Sprint-1	ApplytheImage DataGenerator functionalitytoTrai nDataset	USN-4	WewillapplyImageDataGenerator to traindataset	10	High	4

Sprint

Sprint	FunctionalRequirement(Epic)	UserStoryNumber	UserStory/Task	StoryPoints	Priority	Team Members
Sprint-2	ImportLibraries	USN-5	WewillimportrequiredLibraries	1	Low	4
Sprint-2	InitializetheModel	USN-6	InitializingtheImagerecognitionmodel	1	Medium	4
Sprint-2	AddingCNNlayer	USN-7	WewilladdConvolutionalNeural Network (CNN) used forimage/objectrecognitio nandclassification	4	High	4

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

Sprint	Functional requirement epic)	User Story	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

Sprint	Total StoryPoints	Duration	Sprint StartDate	SprintEndDate (Planned)	Story PointsCompleted(asonPlannedEndDate)	SprintReleaseDate(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

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

Where

AverageVelocity -Storypointsperday

Sprintduration -Numberofdays(Duration)forSprints

Velocity -PointsperSprint

A=20/6=3.3

Average velocity is 3.3 points perSprint

BurndownChart:

Aburndown chartisagraphical representation ofworklefttodoversustime. Itisoftenused inagilesoftware development methodologies such as Scrum. However, burn down charts can be applied toanyproject containingmeasurable progressovertime.

BurndownChart: