ProjectPlanningPhase
ProjectPlanningTemplate (ProductBacklog,Sprint Planning,Stories,Storypoints)

Date	28 October2022
TeamID	PNT2022TMID14370
ProjectName	CrudeOilPricePrediction
MaximumMarks	8 Marks

ProductBacklog,SprintSchedule,andEstimation(4Marks)

Usethebelowtemplatetocreate productbacklogandsprintschedule

Sprint	FunctionalRequirement(Epic)	UserStoryNumber	UserStory/Task	StoryPoints	Priority	TeamMembers
Sprint-1	DataCollection	USN-1	DownloadCrudeOilPriceDataset	2	Medium	Rex Milton S
Sprint-1	DataPreprocessing	USN-2	ImportingTheDatasetintoWorkspace	1	Low	Niranjan JP
Sprint-1		USN-3	HandlingMissingData	3	Medium	Praveen Kumar AM
Sprint-1		USN-4	FeatureScaling	3	Low	Mohammed Umar
Sprint-1		USN-5	DataVisualization	3	Medium	Madhavan
Sprint-1		USN-6	SplittingDataintoTrain andTest	4	High	Rex Milton S
Sprint-1		USN-7	CreatingADatasetwith SlidingWindows	4	High	Niranjan JP
Sprint-2	ModelBuilding	USN-8	ImportingTheModelBuildingLibraries	1	Medium	Praveen Kumar AM
Sprint-2		USN-9	InitializingTheModel	1	Medium	Mohammed Umar
Sprint-2		USN-10	AddingLSTMLayers	2	High	Madhavan

Sprint		USN-11	AddingOutputLayers	3	Medium	Rex Milton S
Sprint-2		USN-11	AddingOutputLayers	3	Medium	Rex Milton S
Sprint-2		USN-12	ConfigureTheLearningProcess	4	High	Niranjan JP

Sprint	FunctionalRequirement(Epic)	UserStoryNumber	UserStory/Task	StoryPoints	Priority	TeamMembers
Sprint-2		USN-13	TrainTheModel	2	Medium	Praveen Kumar AM
Sprint-2		USN-14	ModelEvaluation	1	Medium	Mohammed Umar
Sprint-2		USN-15	SaveTheModel	2	Medium	Madhavan
Sprint-2		USN-16	TestTheModel	3	High	Rex Milton S
Sprint-3	ApplicationBuilding	USN-17	CreateAnHTMLFile	4	Medium	Niranjan JP
Sprint-3		USN-18	BuildPythonCode	4	High	Praveen Kumar AM
Sprint-3		USN-19	RunTheAppinLocalBrowser	4	Medium	Mohammed Umar
Sprint-3		USN-20	ShowcasingPredictionOn UI	4	High	Madhavan
Sprint-4	TrainTheModelOnIBM	USN-21	RegisterForIBMCloud	4	Medium	Rex Milton S
Sprint-4		USN-22	TrainTheMLModelOnIBM	8	High	Niranjan JP
Sprint-4		USN-23	IntegrateFlaskwithScoringEndPoint	8	High	Praveen Kumar AM

ProjectTracker,Velocity &Burndown Chart: (4 Marks)

Sprint	Total StoryPoints	Duration	SprintStartDate	SprintEndDate(Planned)	Story PointsCompleted (as onPlannedEndDate)	SprintReleaseDate(Actual)

Sprint-1	20	6Days	24Oct2022	29Oct2022	20	29Oct2022
Sprint-2	20	6Days	31Oct2022	05Nov2022	20	03Nov2022
Sprint-3	20	6Days	07Nov2022	12Nov2022	20	10Nov2022
Sprint-4	20	6Days	14Nov2022	19Nov2022	20	17Nov2022

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)

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

BurndownChart:

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, burndown charts can be applied to any project containing measurable progress over time.