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

Date	05 Nov2022
TeamID	PNT2022TMID38415
ProjectName	CrudeOil Price Prediction
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	S.Mariyarebakka
Sprint-1	DataPreprocessing	USN-2	ImportingTheDatasetintoWorkspace	1	Low	S.Mariyarebakka
Sprint-1		USN-3	HandlingMissingData	3	Medium	S.Mariyarebakka
Sprint-1		USN-4	FeatureScaling	3	Low	S.Mariyarebakka
S print-1		USN-5	DataVisualization	3	Medium	S.Mariyarebakka
Sprint-1		USN-6	SplittingDataintoTrain andTest	4	High	S.Mariyarebakka
Sprint-1		USN-7	CreatingADatasetwith SlidingWindows	4	High	S.Mariyarebakka
Sprint-2	ModelBuilding	USN-8	ImportingTheModelBuildingLibraries	1	Medium	S.Mariyarebakka A.Yuvashri
Sprint-2		USN-9	InitializingTheModel	1	Medium	S.Mariyarebakka R.Padmini
Sprint-2		USN-10	AddingLSTMLayers	2	High	S.Mariyarebakka M. Preetha
Sprint-2		USN-11	AddingOutputLayers	3	Medium	S.Mariyarebakka A.Yuvashri
Sprint-2		USN-12	ConfigureTheLearningProcess	4	High	S.Mariyarebakka R.Padmini

Sprint	Functional Requirement(Epic)	UserStory Number	UserStory/Task	StoryPoints	Priority	TeamMembers
Sprint-2		USN-13	TrainTheModel	2	Medium	S.Mariyarebakka R.Padmini
Sprint-2		USN-14	ModelEvaluation	1	Medium	S.Mariyarebakka A.Yuvashri
Sprint-2		USN-15	SaveTheModel	2	Medium	S.Mariyarebakka A.Yuvashri
Sprint-2		USN-16	TestTheModel	3	High	S.Mariyarebakka A.Yuvashri
Sprint-3	ApplicationBuilding	USN-17	CreateAnHTMLFile	4	Medium	S.Mariyarebakka A.Yuvashri
Sprint-3		USN-18	BuildPythonCode	4	High	S.Mariyarebakka A.Yuvashri RPadmini M.Preetha
Sprint-3		USN-19	RunTheAppinLocalBrowser	4	Medium	S.Mariyarebakka A.Yuvashri
Sprint-3		USN-20	ShowcasingPredictionOn UI	4	High	S.Mariyarebakka
Sprint-4	TrainTheModelOnIBM	USN-21	RegisterForIBMCloud	4	Medium	S.Mariyarebakka A.Yuvashri R.Padmini M.Preetha
Sprint-4		USN-22	TrainTheMLModelOnIBM	8	High	S.Mariyarebakka A.Yuvashri R.Padmini
Sprint-4		USN-23	IntegrateFlaskwithScoringEndPoint	8	High	S.Mariyarebakka A.Yuvashri R.Padmini M.Preetha

ProjectTracker,Velocity &Burndown Chart: (4 Marks)

Sprint	Total StoryPoints	Duration	SprintStartDate	SprintEndDate(Planned)	Story PointsCompleted (as onPlannedEndDate)	SprintReleaseDate(Actual)
Sprint-1	20	6Days	29Oct2022	03Nov2022	20	05Nov2022
Sprint-2	20	6Days	30Oct2022	05Nov2022	20	08Nov2022
Sprint-3	20	6Days	06Nov2022	12Nov2022	20	12Nov2022
Sprint-4	20	6Days	14Nov2022	19Nov2022	20	18Nov2022

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 suchas Scrum.However,burndown chartscanbe applied toanyprojectcontaining measurableprogressovertime.