

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

Date	28 October2022
TeamID	PNT2022TMID14370
ProjectName	CrudeOilPricePrediction
MaximumMarks	8 Marks

ProductBacklog,SprintSchedule,andEstimation(4Marks)

Usethebelowtemplatetocreate productbacklogandsprintschedule

Sprint	FunctionalRequireme nt(Epic)	UserStoryN umber	UserStory/Task	StoryPoints	Priority	TeamMembers
Sprint-1	DataCollection	USN-1	DownloadCrudeOilPriceDataset	2	Medium	Riddhica S
Sprint-1	DataPreprocessing	USN-2	ImportingTheDatasetintoWorkspace	1	Low	Rina Jose A
Sprint-1		USN-3	HandlingMissingData	3	Medium	Shri Dharshini D
Sprint-1		USN-4	FeatureScaling	3	Low	Saruja Lakshmi C
Sprint-1		USN-5	DataVisualization	3	Medium	Shri Dharshini D
Sprint-1		USN-6	SplittingDataintoTrain andTest	4	High	Riddhica S
Sprint-1		USN-7	CreatingADatasetwith SlidingWindows	4	High	Shri Dharshini D
Sprint-2	ModelBuilding	USN-8	ImportingTheModelBuildingLibraries	1	Medium	Saruja Lakshmi C
Sprint-2		USN-9	InitializingTheModel	1	Medium	Rina Jose A
Sprint-2		USN-10	AddingLSTMLayers	2	High	Shri Dharshini D
Sprint-2		USN-11	AddingOutputLayers	3	Medium	Riddhica S
Sprint-2		USN-12	ConfigureTheLearningProcess	4	High	Saruja Lakshmi C

Sprint	FunctionalRequirement(Epic)	UserStoryNumber	UserStory/Task	StoryPoints	Priority	TeamMembers
Sprint-2		USN-13	TrainTheModel	2	Medium	Shri Dharshini D
Sprint-2		USN-14	ModelEvaluation	1	Medium	Riddhica S
Sprint-2		USN-15	SaveTheModel	2	Medium	Rina Jose A
Sprint-2		USN-16	TestTheModel	3	High	Saruja Lakshmi C
Sprint-3	ApplicationBuilding	USN-17	CreateAnHTMLFile	4	Medium	Rina Jose A
Sprint-3		USN-18	BuildPythonCode	4	High	Shri Dharshini D
Sprint-3		USN-19	RunTheAppinLocalBrowser	4	Medium	Riddhica S
Sprint-3		USN-20	ShowcasingPredictionOn UI	4	High	Saruja Lakshmi C
Sprint-4	TrainTheModelOnIBM	USN-21	RegisterForIBMCloud	4	Medium	Shri Dharshini D
Sprint-4		USN-22	TrainTheMLModelOnIBM	8	High	Shri Dharshini D
Sprint-4		USN-23	IntegrateFlaskwithScoringEndPoint	8	High	Shri Dharshini D

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)

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



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.

