

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	04 November 2023
Team ID	NM2023TMID06843
Project Name	Project – Unleashing The Potential Of Our Youth: A Student Performance Analysis
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	5	High	J.REEMA AFSHAN S.SIVASAKTHI
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	4	High	S.MAGESWARI S.SINDHUJA
Sprint-1		USN-3	As a user, I can register for the application through Facebook	4	Low	J.REEMA AFSHAN S.SINDHUJA
Sprint-1		USN-4	As a user, I can register for the application through Gmail	7	Medium	S.SIVASAKTHI S.SINDHUJA
Sprint-2	Login	USN-5	As a user, I can log into the application by entering email & password	6	High	J.REEMA AFSHAN S.SIVASAKTHI
Sprint-2	Data Collection	USN-6	As a data administrator, I can import student performance data into the system.	7	Medium	J.REEMA AFSHAN S.MAGESWARI
Sprint-2	Data Collection	USN-7	As a data administrator, I can clean and preprocess the imported data for analysis.	4	High	S.MAGESWARI S.SINDHUJA

Sprint-2	Data Collection	USN-8	As a data administrator, I can verify and validate data to ensure accuracy.	3	Medium	S.MAGESWARI S.SINDHUJA
Sprint-3	Data Analysis	USN-9	As a data analyst, I can perform exploratory data analysis (EDA) to understand the dataset's characteristics.	6	Low	J.REEMA AFSHAN S.SIVASAKTHI
Sprint-3	Data Analysis	USN-10	As a data analyst, I can calculate descriptive statistics for the dataset.	4	High	S.MAGESWARI S.SINDHUJA
Sprint-3	Data Analysis	USN-11	As a data analyst, I can create visualizations to illustrate student performance trends.	7	High	J.REEMA AFSHAN S.SINDHUJA
Sprint-4	Data Analysis	USN-12	As a data analyst, I can identify outliers and anomalies in the data.	3	High	J.REEMA AFSHAN S.SIVASAKTHI

Sprint-4	Correlation Analysis	USN-13	As a data scientist, I can perform correlation analysis to understand the relationship between student performance and parental education.	7	Low	J.REEMA AFSHAN S.SINDHUJA
Sprint-3	Correlation Analysis	USN-14	As a data scientist, I can analyze the impact of test preparation on student scores.	3	Medium	J.REEMA AFSHAN S.MAGESWARI
Sprint-4	Report Generation	USN-15	As a user, I can generate a detailed report of the analysis, including insights and recommendations.	4	High	J.REEMA AFSHAN S.SIVASAKTHI
Sprint-4	Report Generation	USN-16	As a user, I can export the report in PDF or other formats.	6	Medium	S.MAGESWARI S.SINDHUJA

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	29 Sep 2023	04 Oct 2023	20	04 Oct 2023
Sprint-2	20	6 Days	06 Oct 2023	12 Oct 2023	20	12 Oct 2023
Sprint-3	20	6 Days	14 Oct 2023	20 Oct 2023	20	20 Oct 2023
Sprint-4	20	6 Days	22 Oct 2023	28 Oct 2023	20	28 Oct 2023

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)

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

Burndown Chart:

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

