Project Planning Phase

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

Date	05 November 2022
Team ID	PNT2022TMID43133
Project Name	Retail Store Stock inventory Analytics
Maximum Marks	

Members: SRINIVASAN S, SOWMIYA P, PRINCY J, SHALINI V, SURYA PRAKASH A

Product Backlog, Sprint Schedule, and Estimation

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	User login and retailer observation	USN-1	As a user, I can register for the application by entering name and locality	2	Medium	Srinivasan S, Princy J
Sprint-1		USN-2	As a user I can add my query to the US super store consideration	2	Medium	Srinivasan S, Sowmiya P
Sprint-1		USN-3	As a user I can suggest some remedy measure	2	Medium	Shalini V, Surya Prakash A
Sprint-1		USN-4	As a retailer I can look into the query of the customer/user and start taking action	2	Medium	Srinivasan S, Surya Prakash A

Sprint-1		USN-5	As a retailer I can take my data base and clean it before analyzing	3	High	Princy J, Shalini V
Sprint-1		USN-6	I should fill in the missing values in case of any dataset available	2	Low	Sowmiya P, Shalini V
Sprint-2	Data pre-processing and exploratory analysis	USN-7	Remove the unwanted data and add necessary columns for processing	2	Low	Shalini V, Surya Prakash A
Sprint-2		USN-8	Masking of private or sensitive data	3	High	Srinivasan S, Princy J
sprint 2		USN-9	Create new columns in case of needed to split up the dataset to work	3	Medium	Princy J, Sowmiya P
Sprint 2		USN-10	Remove nil entry data and make sure to maintain them properly in future	3	Low	Sowmiya P, Surya Prakash A
Sprint 2		USN-11	Format data to standardized pattern	3	Low	Princy J, Surya Prakash A
Sprint 3	Interactive Dashboard	USN-12	Analyzing basic metrices	3	Low	Srinivasan S, Princy J
Sprint 3		USN-13	Learning IBM Cognos functionalities	2	Low	Shalini V, Surya Prakash A
Sprint 3		USN-14	Data visualization basics	3	Medium	Sowmiya P, Shalini V
Sprint 3		USN-15	Correlation between variables	3	Medium	Princy J, Shalini V
Sprint 3		USN-16	Year wise profit using line graph	2	Low	Srinivasan S, Sowmiya P
Sprint 3		USN-17	Year wise quantity of utilities using line graph	2	Low	Sowmiya P, Surya Prakash A

Sprint 3		USN-18	Top 10 sales by year using line graph	2	Low	Srinivasan S, Princy J
Sprint 3		USN-19	Monthly sales using Tree Map	2	Low	Sowmiya P, Shalini V
Sprint 3		USN-20	Monthly profit by pie chart	2	Low	Sowmiya P, Shalini V
Sprint 4	Story creation and solution	USN-21	Dashboard creation	5	High	Srinivasan S, Princy J
Sprint 4		USN-22	Summary cards of total profit, sales, sub categories and localities	5	Medium	Srinivasan S, Surya Prakash A
Sprint 4		USN-23	Understanding the demand of the customer correlated with analyzed data set	5	High	Srinivasan S, Princy J
Sprint 4		USN-24	Generate remedy measures for the customer's query based on available solution	5	High	Sowmiya P, Shalini V
Sprint 4		USN-25	Generate a final report for future use, for both retailers and the customer's access.	5	High	Srinivasan S, Princy J

Project Tracker, Velocity & Burndown Chart:

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	13	4 Days	28 Oct 2022	31 Oct 2022	13	31 Oct 2022
Sprint-2	14	4 Days	01 Nov 2022	04 Nov 2022	14	04 Nov 2022
Sprint-3	21	5 Days	05 Nov 2022	10 Nov 2022	21	10 Nov 2022
Sprint-4	25	5 Days	10 Nov 2022	15 Nov 2022	25	15 Nov 2022

Velocity:

Sprint 1:

$$\boldsymbol{AV} = \frac{Sprint\ duration}{velocity} = \frac{13}{4} = 3.25$$

Sprint 2:

$$\boldsymbol{AV} = \frac{Sprint\ duration}{velocity} = \frac{14}{4} = 3.50$$

Sprint 3:

$$\boldsymbol{AV} = \frac{Sprint\ duration}{velocity} = \frac{21}{5} = 4.2$$

Sprint 4:

$$\boldsymbol{AV} = \frac{Sprint\ duration}{velocity} = \frac{25}{5} = 5.0$$

Burndown chart: