

## Project Planning Phase

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

Date	19 October 2022
Team ID	PNT2022TMID43345
Project Name	Inventory Management System for Retailers
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	Vikhas S G
Sprint-2		USN-2	As a user, I can register for the application through Gmail account	8	Low	Kishore Venkatesh S
Sprint-1		USN-3	As a user, I can register for the application through mobile number	8	High	Abivishvas A
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email or mobile number & password	5	High	Venkateshwaran M
Sprint-2		USN-5	As a user, I can login into the application through OTP.	3	Medium	Kishore Venkatesh S
Sprint-3	Dashboard	USN-6	As a user, I must be able to see my details on the dashboard.	3	High	Abivishvas A
Sprint-4	Inventory	USN-7	As a retailer, I should be able to alter product details in the app	2	Medium	Venkateshwaran M
Sprint-2		USN-8	As a retailer, I should get alert on stock shortage or unavailability.	5	Medium	Abivishvas A
Sprint-2	Order	USN-9	As a user, I should be able to order items on theapp	2	High	Venkateshwaran M
Sprint-3		USN-10	As a user, I should be able to verify and pay in asecure payment gateway	3	High	Kishore Venkatesh S
Sprint-3		USN-11	As a user, I should be able to get the product ontime.	5	Low	Vikhas S G

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Administration	USN-12	As a administrator, I should be able to edit details of the users of the app.	8	High	Vikhas S G
Sprint-4		USN-13	Termination user accounts temporarily or permanently if needed.	5	Low	Venkateshwaran M

**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	18	6 Days	24 Oct 2022	29 Oct 2022	18	29 Oct 2022
Sprint-2	15	6 Days	31 Oct 2022	05 Nov 2022	15	05 Nov 2022
Sprint-3	11	6 Days	07 Nov 2022	12 Nov 2022	11	12 Nov 2022
Sprint-4	15	6 Days	14 Nov 2022	19 Nov 2022	15	19 Nov 2022

**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)

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

**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.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

**Reference:**

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>