

Project Planning Phase

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

Date	5/11/2022
Team ID	PNT2022TMID19616
Project Name	Inventory Management System for Retailers
Maximum Marks	8 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Initial Registration by customer	USN-1	As a user, I can register for the application by entering my email or number, and password, and confirming my password.	3	High	1. S SAKTHIVEL (TL) 2. KAVIN U
Sprint-1	Confirmation for registering	USN-2	As a user, I can receive my confirmation through email or number once I have registered for the application.	3	Medium	1. HARIHARAN S (T3) 2. SAMUEL A
Sprint-1	Initial Login	USN-3	As a user, I can log in to the authorized account by entering the registered email or number and password.	2	High	1. S. SAKTHIVEL (TL) 2. KAVIN U 3. SAMUEL A
Sprint-1	Viewing Dashboard	USN-4	As a user, I can view my account details which I have given during my registration process.	3	High	1. S. SAKTHIVEL (TL) 2. KAVIN U

Sprint-2	Adding products to cart and order confirmation.	USN-5	As a user, I can view the available products and it to the cart and once the cart is filled, I can confirm my order.	2	High	1. KAVIN U 2. HARIHARAN.S
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Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Feedback system	USN-6	As a user, I can give the feedback about the product and/or the service and chat with the serviced provider.	2	Medium	1. S. SAKTHIVEL (TL) 2. SAMUEL A
Sprint-2	Registration for retailer	USN-7	As a user, I can register for the application by entering my email, and password, and confirming my password.	2	High	1. S. SAKTHIVEL(TL) 2. KAVIN U 3. HARIHARAN.S
Sprint-2	Confirmation	USN-8	As a user, I can receive my confirmation email once I have registered for the application	2	Medium	1. S. SAKTHIVEL(TL) 2. HARIHARAN.S
Sprint-2	Login	USN-9	As a user, I can log in to the authorized account by entering the registered email and password	2	High	1. S. SAKTHIVEL(TL) 2. KAVIN U
Sprint-3	Retailers Dashboard	USN-10	As a user, I can view the products that are currently available.	8	High	1. KAVIN U 2. SAMUEL A 3. S. SAKTHIVEL (TL).
Sprint-4	Stocks update	USN-11	As a user, I can restore the products which are not available in the inventory and restore the inventory details.	2	Medium	1. HARIHARAN.S 2. SAMUEL A
Sprint-4	Stock Alert	USN-12	Alerting the retailer when the stock is low on quantity by using SendGrid.	3	High	1. S SAKTHIVEL(TL). 2. KAVIN U

Sprint-4	Admin Login	USN-13	As an admin, I can modify and verify the regular and customized users.	2	Medium	1. KAVIN U 2. SAMUEL A
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Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Dashboard and updation.	USN-14	As a user, I can change the UI & update features	2	Medium	1. KAVIN U 2. S SAKTHIVEL (TL).

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

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

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
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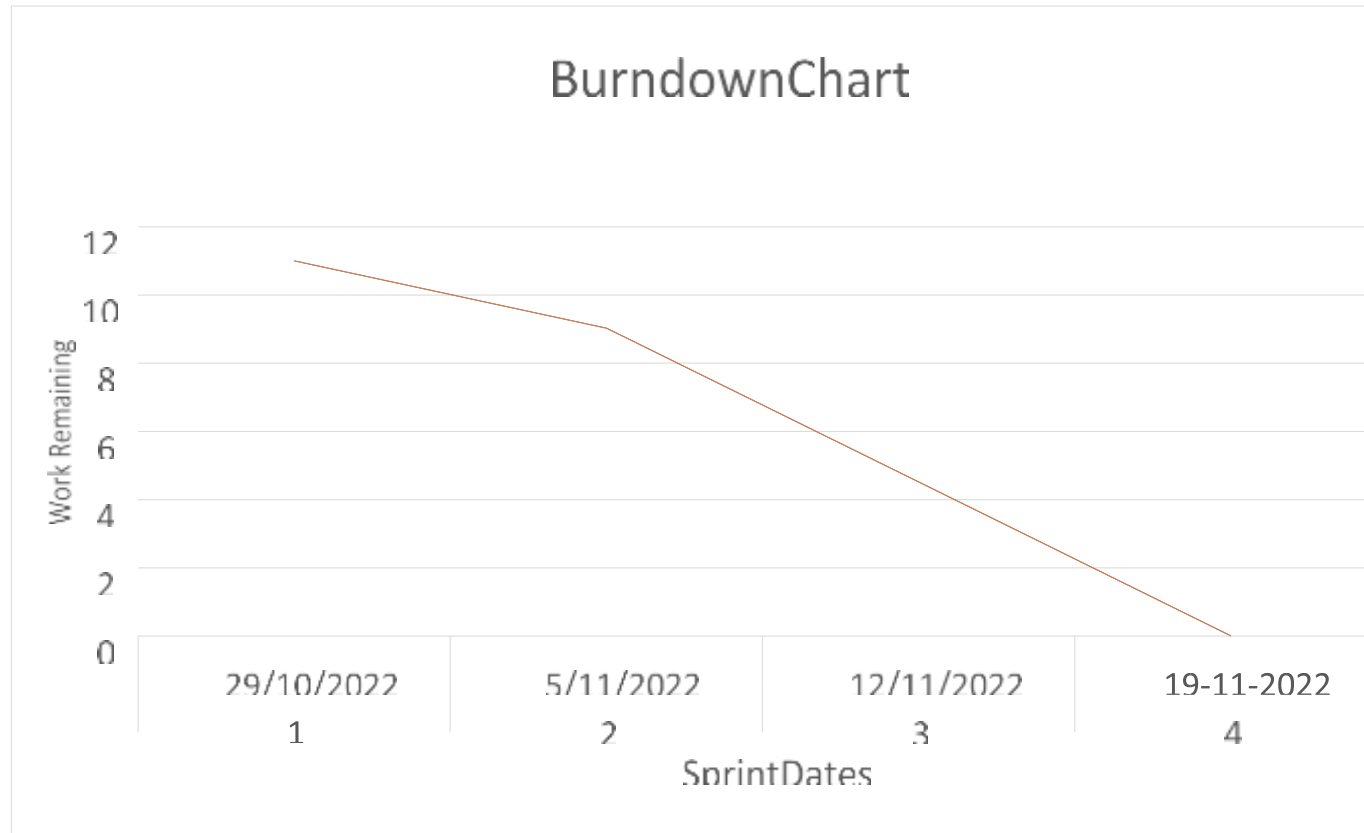
Sprint-1	11	6 Days	24 Oct 2022	29 Oct 2022	11	29 Oct 2022
Sprint-2	10	6 Days	31 Oct 2022	05 Nov 2022	10	05 Nov 2022
Sprint-3	8	6 Days	07 Nov 2022	12 Nov 2022	8	12 Nov 2022
Sprint-4	7	6 Days	14 Nov 2022	19 Nov 2022	9	19 Nov 2022

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)

Our velocity should be:

$$AV \frac{(11+10+8+9)}{24} = \frac{38}{24} = 1.58$$



Burndown Chart:

A burndown 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>