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

Date	18 October 2022
Team ID	PNT2022TMID02121
Project Name	Inventory Management 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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Dinesh SP Dhananjeyan RM Ancy Tera B Alagu Gomathi Brindha A
Sprint-1	Registration	USN-2	As a user, I will receive a confirmation email once I have registered for the application	1	High	Dinesh SP Dhananjeyan RM Ancy Tera B Alagu Gomathi Brindha A
Sprint-2	Registration	USN-3	As a user, I can register for the application through Facebook	2	Low	Dinesh SP Dhananjeyan RM Ancy Tera B Alagu Gomathi Brindha A
Sprint-1	Registration	USN-4	As a user, I can register for the application through Gmail	2	Medium	Dinesh SP Dhananjeyan RM Ancy Tera B Alagu Gomathi Brindha A
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Dinesh SP Dhananjeyan RM Ancy Tera B Alagu Gomathi Brindha A

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Dashboard	USN-6	As a user, I must be able to see my details on the dashboard	3	High	Dinesh SP Dhananjeyan RM Ancy Tera B Alagu Gomathi Brindha A
Sprint-1	Dashboard	USN-7	As a user, I should be able to change my account settings whenever I prefer.	2	Medium	Dinesh SP Dhananjeyan RM Ancy Tera B Alagu Gomathi Brindha A
Sprint-2	Inventory	USN-8	As a retailer, I should be able to alter product details	2	Medium	Dinesh SP Dhananjeyan RM Ancy Tera B Alagu Gomathi Brindha A
Sprint-2	Inventory	USN-9	As a retailer, I should be able to add or reduce the number of product	3	Medium	Dinesh SP Dhananjeyan RM Ancy Tera B Alagu Gomathi Brindha A
Sprint-3	Inventory	USN-10	As a retailer, I should be able to get alert or notification on shortage of stock via email	5	High	Dinesh SP Dhananjeyan RM Ancy Tera B Alagu Gomathi Brindha A
Sprint-3	Communication	USN-11	As a user, I should be able to get the needed details with the help of a chat bot	1	Low	Dinesh SP Dhananjeyan RM Ancy Tera B Alagu Gomathi Brindha A
Sprint-4	Maintenance	USN-12	As an admin, I should be able to access control	3	High	Dinesh SP Dhananjeyan RM Ancy Tera B Alagu Gomathi Brindha A

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	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	07 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	21 Nov 2022

Velocity:

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

Sprint	Total Story Points	Duration	Average Velocity
Sprint 1	20	7 Days	20/7 = 2.85
Sprint-2	20	7 Days	20/7 = 2.85
Sprint-3	20	7 Days	20/7 = 2.85
Sprint-4	20	7 Days	20/7 = 2.85
Total	80	28 DAYS	80/28 = 2.85

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.