Product Backlog, Sprint Schedule, and Estimation (4 Marks) project planning phase

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	Harish Indhumati Balamani
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Dinesh Harish
Sprint-1	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Indhumathi Balamani
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Dinesh harish Balamani
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Indhumathi Balamani Dinesh
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Dinesh Harish Balamani Harish
Sprint-2	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	4	High	Harish Dinesh
Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Dinesh Harish
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Harish Dinesh

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Stock Prediction	USN-10	As a user I can predict out of stock and less stock for a product	5	High	Dinesh Indhumati Harish
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out of stock products	4	High	Dinesh Harish
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	Indhumathi Balamani Harish
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	Dinesh Harish Balamani indhumati
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	4	High	Harish Dinesh
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	Harish Dinesh Balamani

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

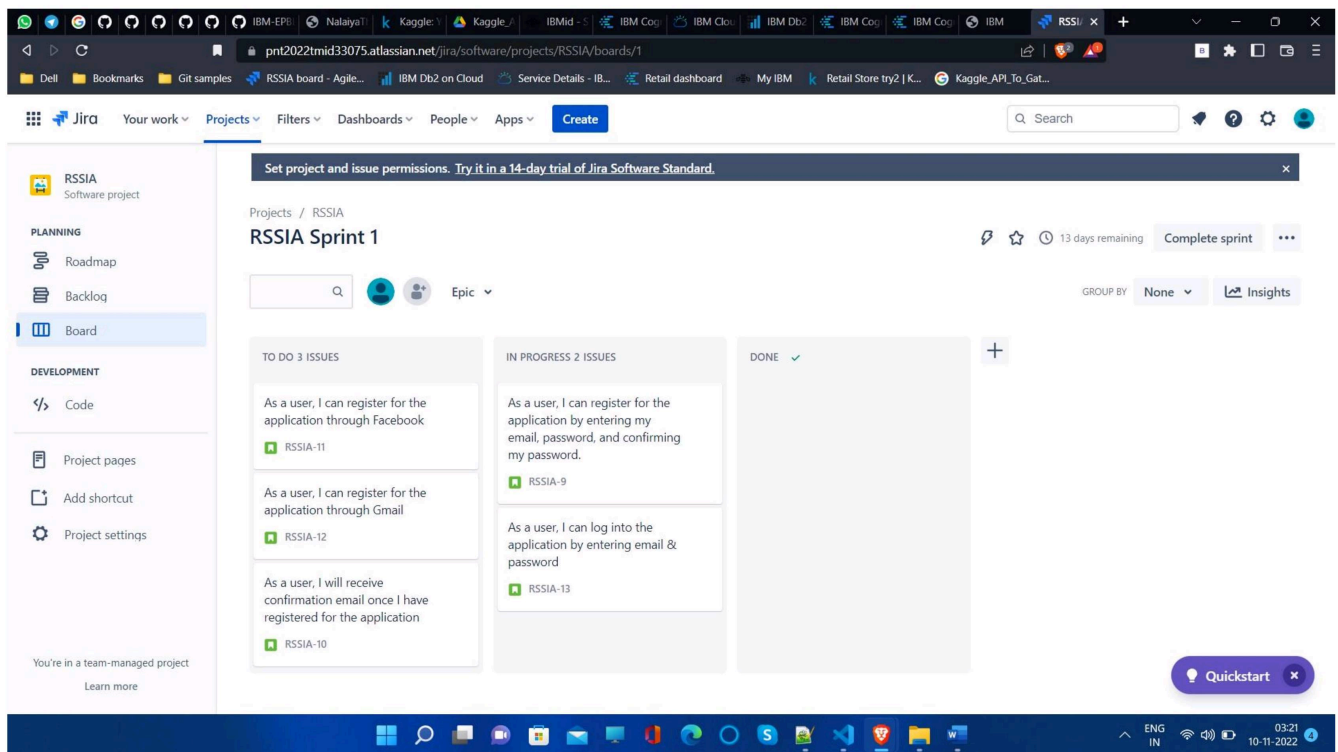| Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	6	6 Days	24 Oct 2022	29 Oct 2022	6	29 Oct 2022
Sprint-2	16	6 Days	31 Oct 2022	05 Nov 2022	16	05 Nov 2022
Sprint-3	10	6 Days	07 Nov 2022	12 Nov 2022	10	12 Nov 2022
Sprint-4	14	6 Days	14 Nov 2022	19 Nov 2022	14	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)

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

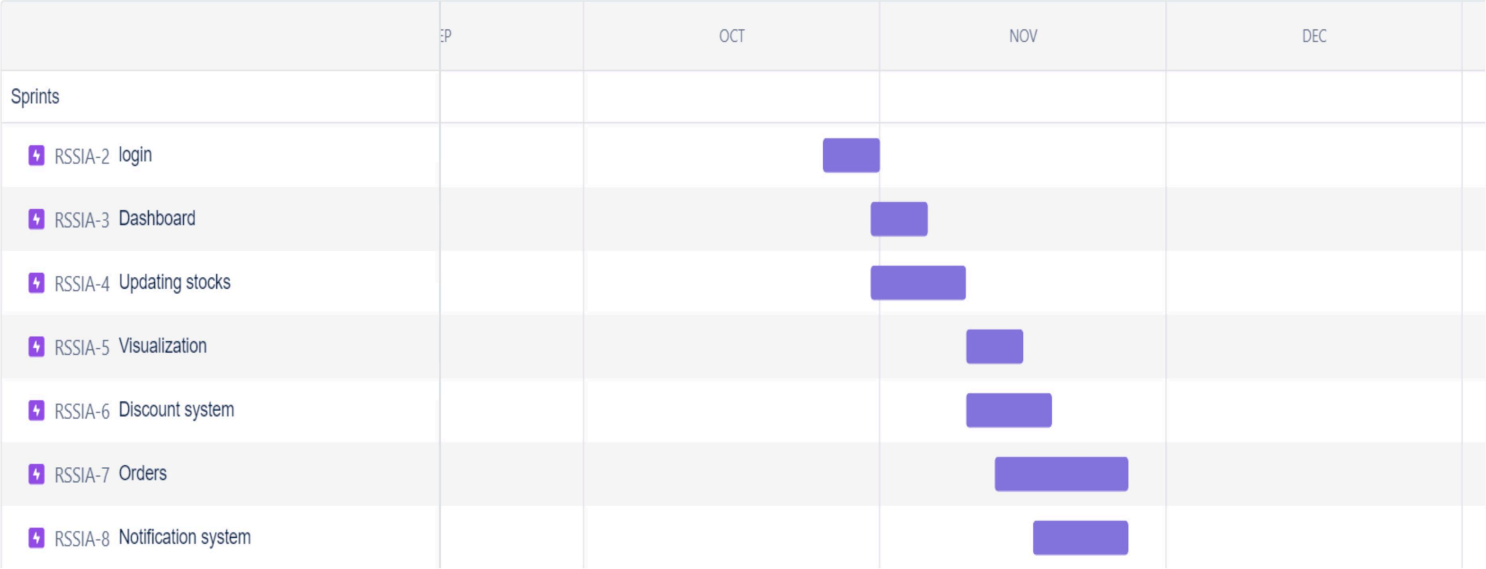| Sprint	Total Story Points	Duration	Average Velocity
Sprint-1	6	6 Days	6/6=1
Sprint-2	16	6 Days	16/6=2.67
Sprint-3	10	6 Days	10/6=1.67
Sprint-4	14	6 Days	14/6=2.33
Total	46	24	46/24=1.91

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.

Project Planning Tool:

Roadmap:

	SEP	OCT	NOV	DEC
Sprints				
⚡ RSSIA-2 login		▮		
⚡ RSSIA-3 Dashboard		▮		
⚡ RSSIA-4 Updating stocks		▮		
⚡ RSSIA-5 Visualization			▮	
⚡ RSSIA-6 Discount system			▮	
⚡ RSSIA-7 Orders			▮	
⚡ RSSIA-8 Notification system			▮	

Jira   Your work ∨   Projects ∨   Filters ∨   Dashboards ∨   People ∨   Apps ∨   **Create**

Q Search

Projects / RSSIA

Backlog

...

| Q | Epic ∨ | | Insights |

Michael Danieal 034

⌄ RSSIA Sprint 1 ✏ Add dates (5 issues)   0 0 0   **Start sprint** ...

🔲 RSSIA-9 As a user, I can register for the application by entering my email, password, and confirming my password.	TO DO ∨	🧑
🔲 RSSIA-10 As a user, I will receive confirmation email once I have registered for the application	TO DO ∨	🧑
🔲 RSSIA-11 As a user, I can register for the application through Facebook	TO DO ∨	🧑
🔲 RSSIA-12 As a user, I can register for the application through Gmail	TO DO ∨	🧑
🔲 RSSIA-13 As a user, I can log into the application by entering email & password	TO DO ∨	🧑

+ Create issue

⇕

⌄ RSSIA Sprint 2 ✏ Add dates (4 issues)   0 0 0   Start sprint ...

| 🔲 RSSIA-14 As a user, I can view my dashboard and can perform stock prediction and analysis | TO DO ∨ | 🧑 |
| 🔲 RSSIA-15 As a user I can view the list of categorized products and their details | | |

💡 Quickstart ✕

RSSIA-16 As a user I can search through the product using barcode   TO DO ∨ 🧑

pnt2022tmid33075.atlassian.net/jira/software/projects/RSSIA/boards/1/backlog

Dell | Bookmarks | Git samples

Jira | Your work ∨ | Projects ∨ | Filters ∨ | Dashboards ∨ | People ∨ | Apps ∨ | Create

Q Search

Projects / RSSIA

Backlog

···

🔍 Q | 👤 | 👥 | Epic ∨

📊 Insights

Michael Danieal 034

∨ **RSSIA Sprint 3** 🖊 Add dates (2 issues)

0 **0** 0 | Start sprint | ···

🟩 RSSIA-17 As a user I can generate reports based on product sales

TO DO ∨ 🧑

🟩 RSSIA-19 As a user I can predict out of stock and less stock for a product

TO DO ∨ 🧑

+ Create issue

⇕

∨ **RSSIA Sprint 4** 🖊 Add dates (4 issues)

0 **0** 0 | Start sprint | ···

🟩 RSSIA-20 As a user I can view notification for expired and out of stock products

TO DO ∨ 🧑

🟩 RSSIA-21 As a user I can reorder stocks based on predictions and notification

TO DO ∨ 🧑

🟩 RSSIA-23 As a user I can generate invoice calculating taxes, discount and calculate credits

TO DO ∨ 🧑

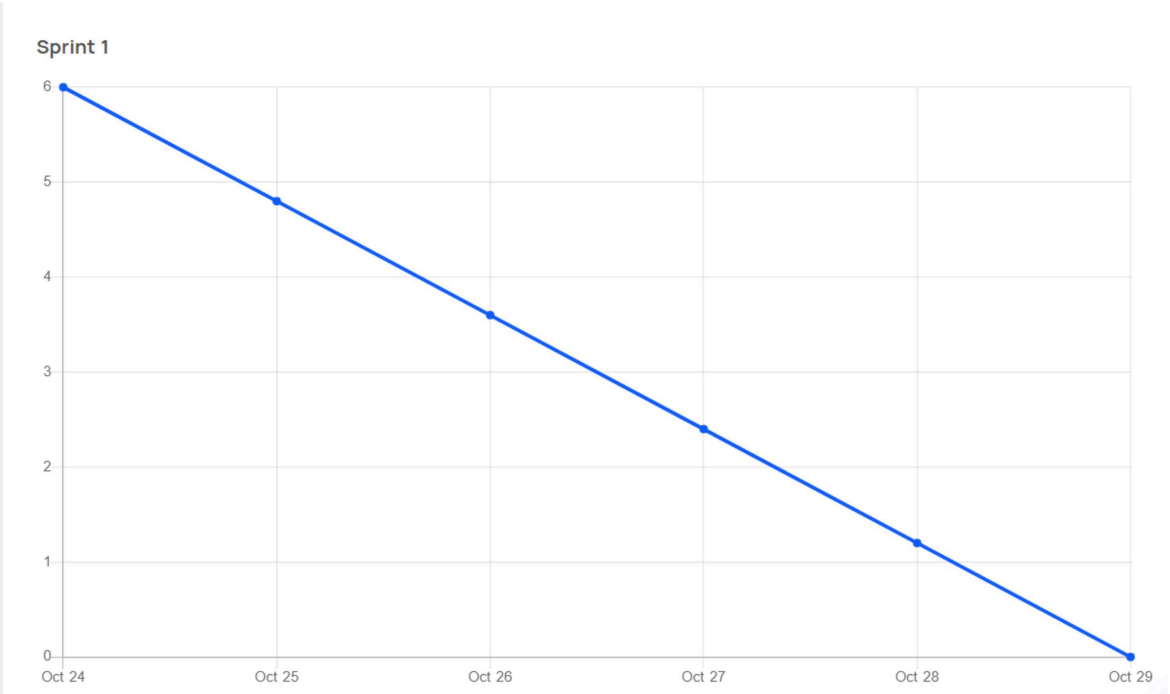🟩 RSSIA-24 As a user I can provide discount based on credit points

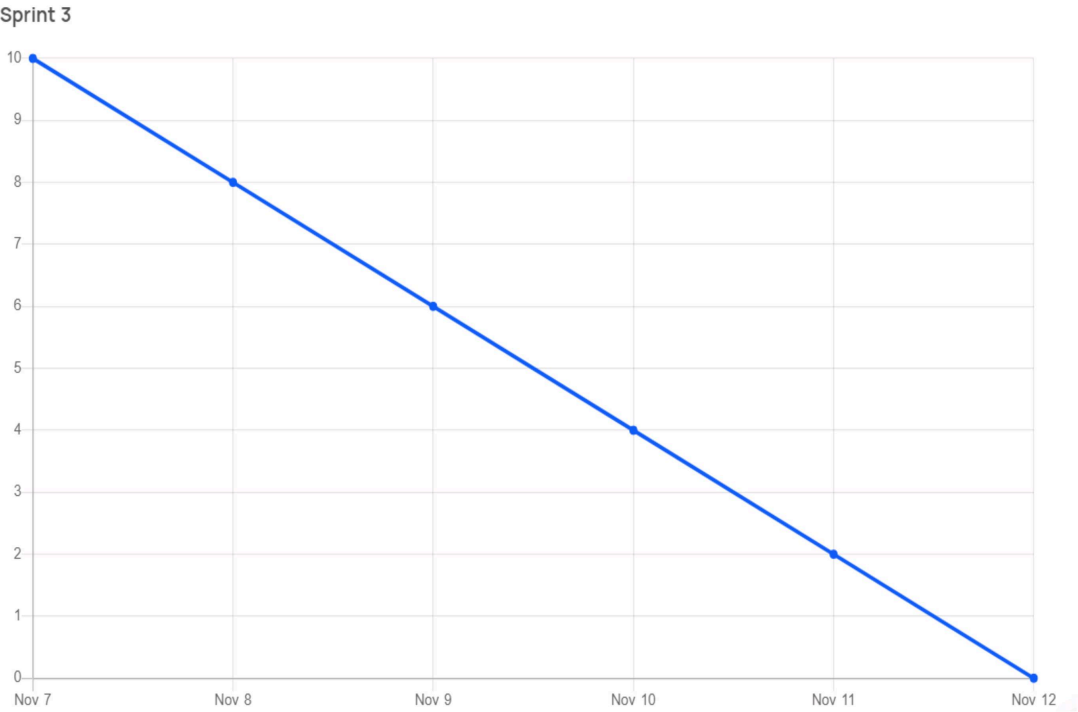TO DO ∨ 🧑

+ Create issue

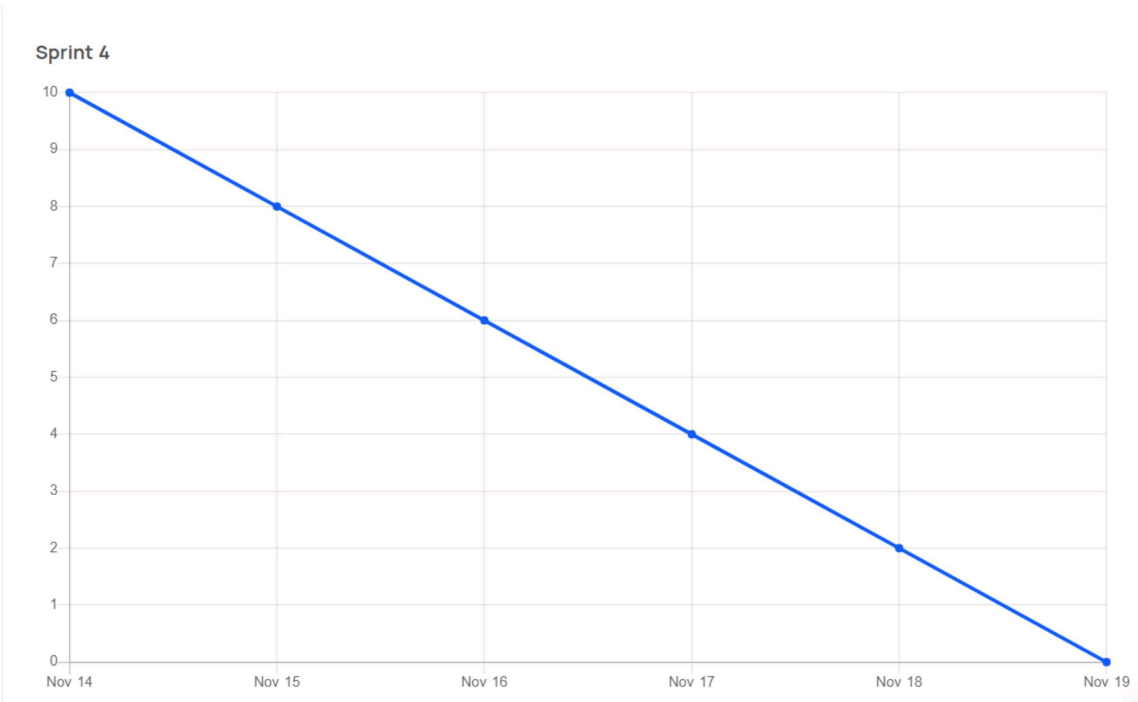💡 Quickstart ✖

Estimated Effort:

Sprint - 1:

Sprint 1

Sprint - 2:

Sprint 2

Sprint - 3:

Sprint 3

Sprint - 4:

Sprint 4

Overall burndown chart:

Overall
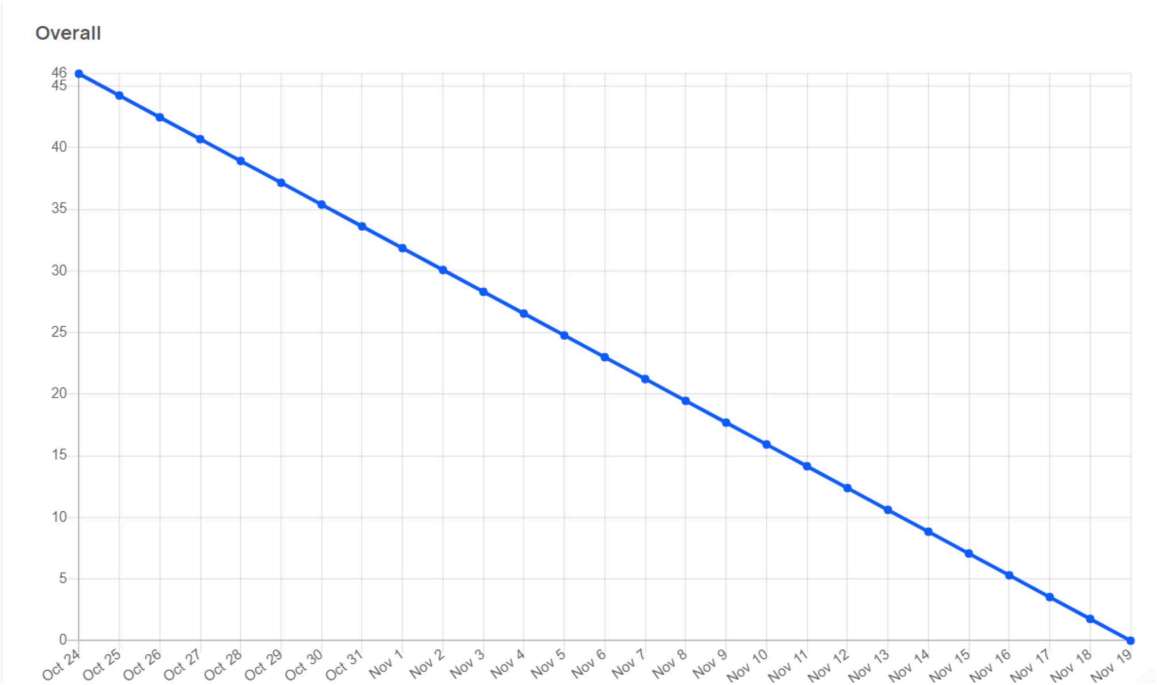
Milestones and Activities of Sprint:

MILESTONES	ACTIVITIES
Login	• Login into Dashboard
Dashboard	• View Stocks • Perform Predictions • Search Products
Updating Stocks	• View Products • Add Products • Delete Products
Visualization	• Report generation • Out of stock prediction • In stock prediction
Discount system	• Discounts based on credits • Invoice generation
Orders	• Reorder Stock
Notification system	• Notification upon critical stock