

Flipkart Application Project Overview and Agile Development Documentation Using Jira

-Vimalraj Kamalanathan

Introduction:

The project focuses on creating a digital solution within the flipkart application, an e-commerce platform. The scope includes enhancing user experience, optimizing product browsing, and streamlining the order process.

Key Objective:

- I. Navigation
- II. Search functionalities
- III. Product details display and
- IV. Purchase flow to make the shopping experience more efficient and enjoyable for users.

Tools and Methodology:

Tools	Jira and Kanban
Framework	Scrum Framework
Methodology	Agile

Agile-Scrum approach:

- I. This approach allowed us to iteratively develop and deliver enhancements to the platform in *short, time-boxed iterations called Sprints*.
- II. Through *daily stand-ups, sprint planning, and retrospectives*, we achieved improved collaboration, faster adaptation to changes, and a focus on delivering high-value features.
- III. This Agile-Scrum approach empowered our team to respond swiftly to customer needs and maintain a *streamlined development process*, aligning well with Flipkart's commitment to user-centric and efficient solutions.

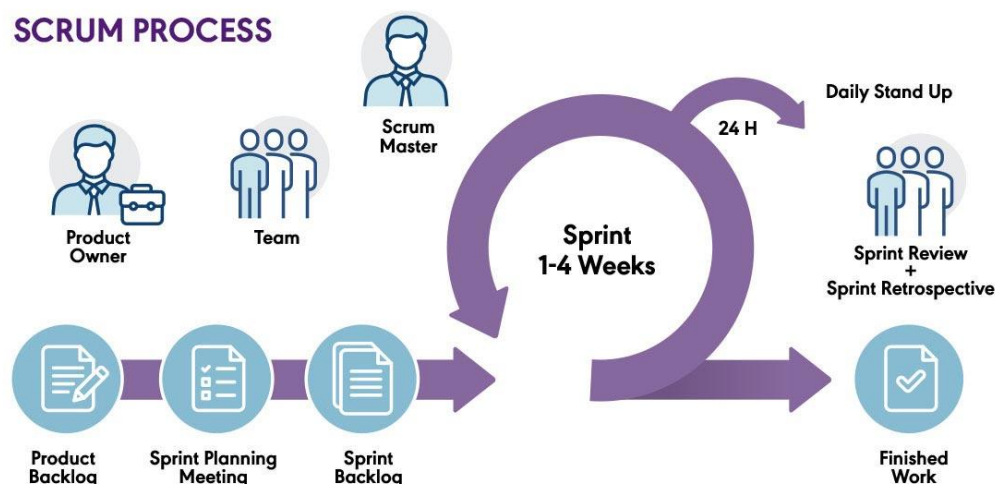
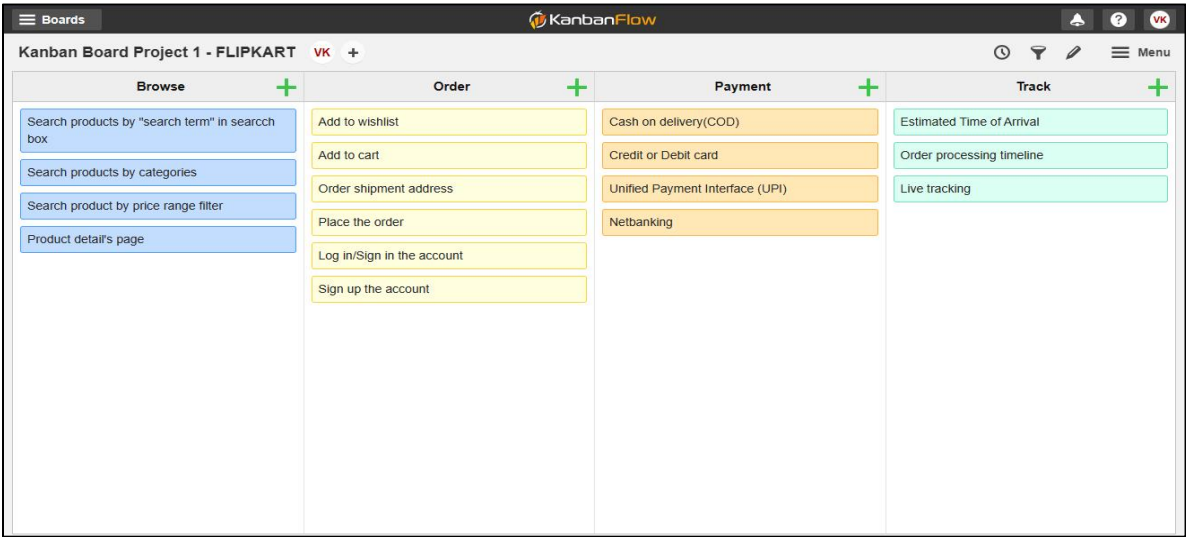


Image credit: <https://www.pm-partners.com.au/the-agile-journey-a-scrum-overview/>

Kanban Board:

I utilized KanbanFlow, a Kanban board, to visually map and manage the flow of user stories and epics throughout the project.

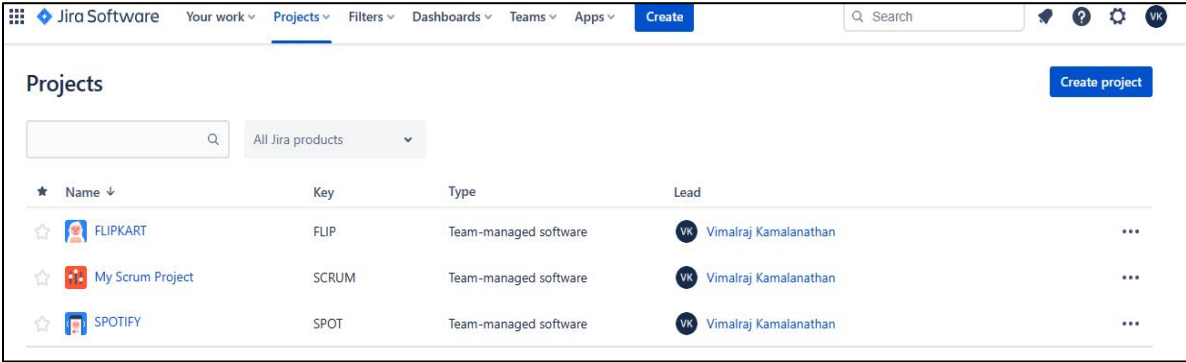


Jira Project Management:

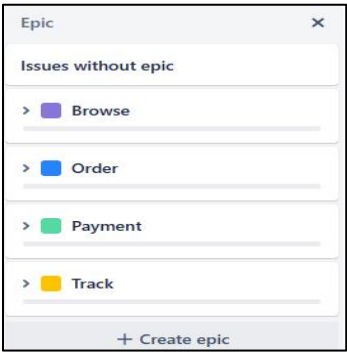
After got the visual flow,I hopped on to jira tool to integrate our Kanban flow mapped in KanbanFlow into a comprehensive project management tool.

Then leveraged Jira's features to create boards, organize tasks, and track progress in a centralized and efficient manner.

A new scrum project for the application was created and a board was assigned.

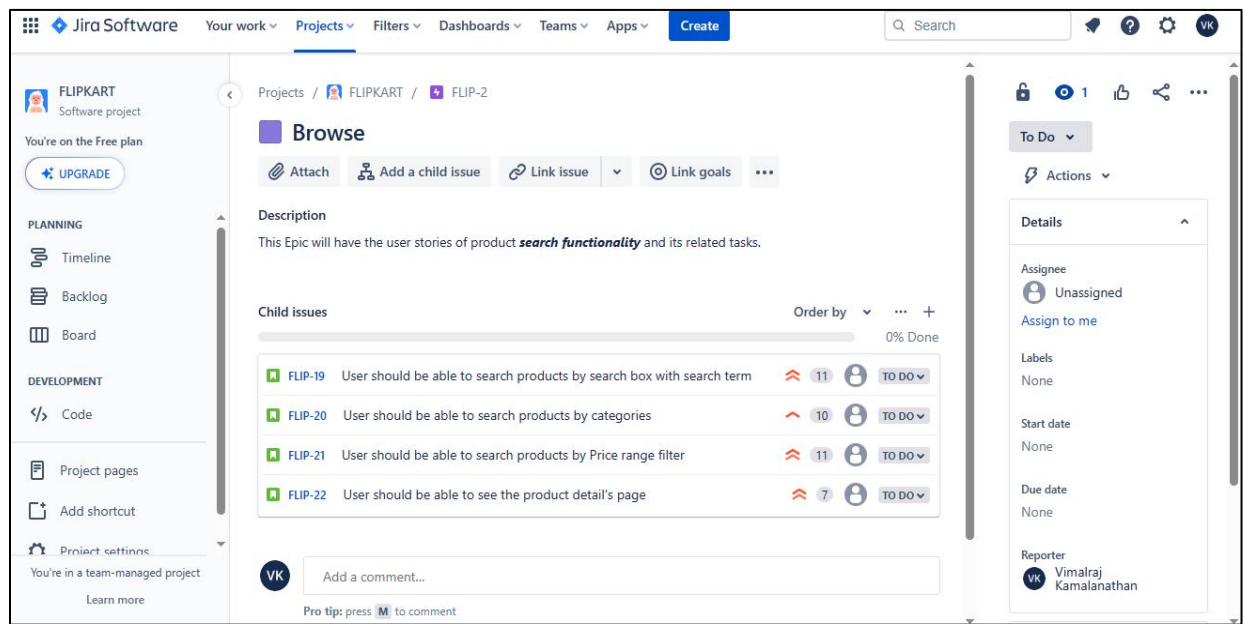


Project Kickoff:Defining Epics and Creating the Backlog



Epics Created

Browse Epic Design:



In the same way the other three epics(Order,Payment and Track) are created.

Backlog's creation:

Browse Epics-User stories

Backlog (4 of 17 issues visible)				39	0	0	Create sprint
FLIP-19	User should be able to search products by search box with search term	BROWSE	TO DO	11			
FLIP-20	User should be able to search products by categories	BROWSE	TO DO	10			
FLIP-21	User should be able to search products by Price range filter	BROWSE	TO DO	11			
FLIP-22	User should be able to see the product detail's page	BROWSE	TO DO	7			

Order Epic-User stories

FLIP-7	User should be able to create an account in the web application	ORDER	TO DO	4			
FLIP-12	User should be able to add the selected product to the cart	ORDER	TO DO	7			
FLIP-14	User should be able to place the product order	ORDER	TO DO	10			
FLIP-15	User should be able to sign in to the account	ORDER	TO DO	3			
FLIP-11	User should be able to add the selected product to wish list	ORDER	TO DO	9			
FLIP-13	User should be able to give the shipment delivery address	ORDER	TO DO	6			

Payment Epic-User stories

FLIP-6	User should be able to make payment by COD	PAYMENT	TO DO	5			
FLIP-8	User should be able to make payment by credit or debit card	PAYMENT	TO DO	13			
FLIP-9	User should be able to make payment by UPI transaction	PAYMENT	TO DO	8			
FLIP-10	User should be able to make payment by Net banking	PAYMENT	TO DO	8			

Track Epic-User stories

FLIP-16	User must be able to get the ETA of the ordered product	TRACK	TO DO	5			
FLIP-17	User must be able to see the order processing timeline	TRACK	TO DO	6			
FLIP-18	User must be able to live track the order	TRACK	TO DO	9			

These backlogs are called **Product backlog's**.

Sample Backlog design:

The **description and acceptance criteria's** are given for the team to understand the customer requirements clearly.

In addition to this a **page mockup** was also given to get a proper **visual representation**.

Projects / FLIPKART / FLIP-2 / FLIP-19

User should be able to search products by search box with search term

Attach Add a child issue Link issue ...

Description • Unsaved changes

As a user

I want to browse products by entering product name in search box.

So that I can get all the products with that name.

Acceptance criteria 1:

Given the user has internet access and able to reach www.flipkart.com.

When the user able to enter the product search term

Then the user must be able to see intended products of that search term and related items.

Mockup sample:

1

To Do ▾

Actions ▾

Details ▴

Assignee
 Unassigned
[Assign to me](#)

Labels
None

Sprint
FLIP Sprint 1

Story point estimate
11

Projects / FLIPKART / FLIP-2 / FLIP-19

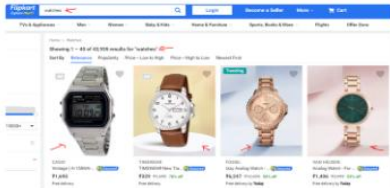
Acceptance criteria 1:

Given the user has internet access and able to reach www.flipkart.com.

When the user able to enter the product search term

Then the user must be able to see intended products of that search term and related items.

Mockup sample:



1

To Do ▾

Actions ▾

Details ▴

Assignee
 Unassigned
[Assign to me](#)

Labels
None

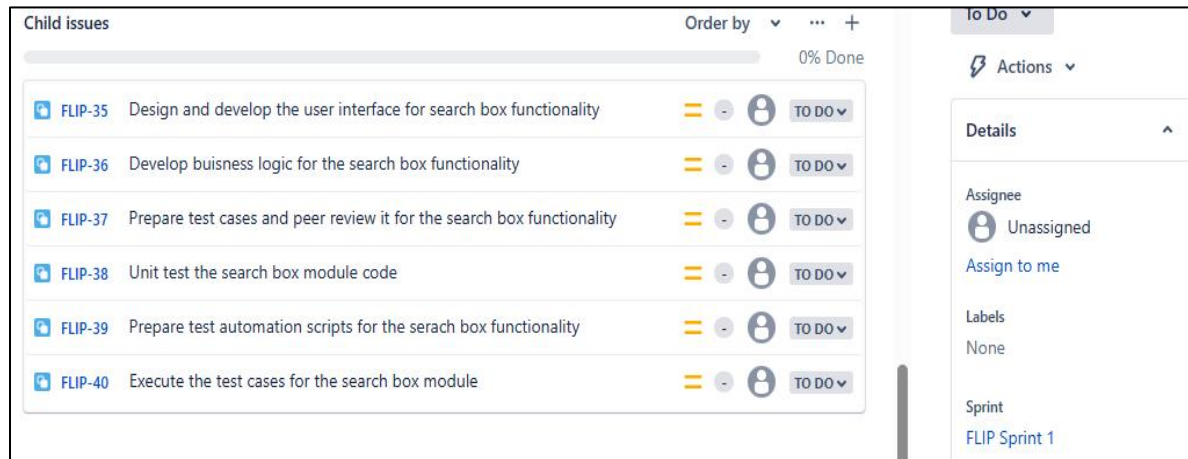
Sprint
FLIP Sprint 1

Story point estimate
11

Sample Sub-task creation's:

For example ,for the same above **user story related sub-tasks** are created to assign to the **different teams**(i.e UX design,Developer,Testing,Automation,Execution) that are involved in delivering this user story.

Likewise,for all the backlogs the related subtasks are created.



Sprint-planning and story point estimation:

Now as the product backlog's are created from the epics and usesr stories,now we are moving into the sprint planning stage.

Usually it runs around an hour on a average with all the scrum team members to decide which product backlog's that they are going to deliver on this current planned sprint.

And also the story points for each user story is decided which is a numeric given for the effort to get the work done on a assumption.

After the sprint planning, we get the backlog's which are called **sprint backlog**.

Product backlog->Sprint Planning->Sprint backlog

Sprint Commenced:

Projects / FLIPKART

Backlog

VK

Epic

Insights

FLIP Sprint 11 Oct – 15 Oct (5 issues)

3500Complete sprint

The goal of this sprint is to deliver the assigned user stories.

FLIP-7

User should be able to create an account in the web application

ORDER

TO DO

4

FLIP-15

User should be able to sign in to the account

ORDER

TO DO

3

FLIP-19

User should be able to search products by search box with search term

BROWSE

TO DO

11

FLIP-12

User should be able to add the selected product to the cart

ORDER

TO DO

7

FLIP-14

User should be able to place the product order

ORDER

TO DO

10

Create issue

As we can see the sprint is commenced for a duration of 2 weeks with 5 backlogs been selected.

Also the story point estimation and the priorities are assigned accordingly.

Board view

Projects / FLIPKART

FLIP Sprint 1

10 days remaining

Complete sprint

The goal of this sprint is to deliver the assigned user stories.

VK

Epic

GROUP BYNoneInsights

TO DO 3

User should be able to search products by search box with search term

BROWSE

FLIP-19

11

User should be able to add the selected product to the cart

IN PROGRESS 2

User should be able to create an account in the web application

ORDER

FLIP-7

4

User should be able to sign in to the account

ORDER

FLIP-15

3

DONE

Projects / FLIPKART

Backlog

VK

Epic

Insights

FLIP Sprint 11 Oct – 15 Oct (5 issues)

2870Complete sprint

The goal of this sprint is to deliver the assigned user stories.

FLIP-7

User should be able to create an account in the web application

ORDER

IN PROGRESS

4

FLIP-15

User should be able to sign in to the account

ORDER

IN PROGRESS

3

FLIP-19

User should be able to search products by search box with search term

BROWSE

TO DO

11

FLIP-12

User should be able to add the selected product to the cart

ORDER

TO DO

7

FLIP-14

User should be able to place the product order

ORDER

TO DO

10

Create issue

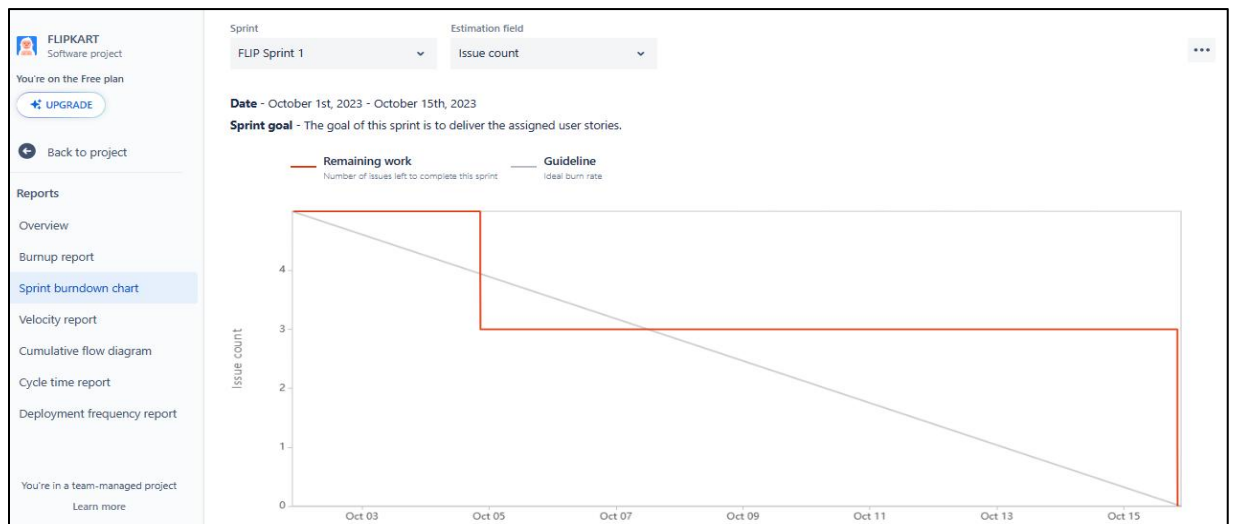
Sprint completion:

Completed issues							View in issue navigator
Key	Summary	Issue type	Epic	Status	Assignee	Story points	
FLIP-7	User should be able to create an account in the web...	Story	ORDER	DONE		4	
FLIP-15	User should be able to sign in to the account	Story	ORDER	DONE		3	
FLIP-19	User should be able to search products by search b...	Story	BROWSE	DONE		11	
FLIP-12	User should be able to add the selected product to t...	Story	ORDER	DONE		7	
FLIP-14	User should be able to place the product order	Story	ORDER	DONE		10	

After the completed sprint, we can analyse the performance using report feature.

There we have different types of **charts, diagrams** to have a better perspective of the things happened in the sprint.

Sprint burn down chart



Here, i attached a **burndown chart of the sprint 1** to demonstrate the report feature and other report features are available as well.

Cumulative flow diagram



Retrospective's:

Now after sprint completion,retrospective meeting is conducted to provide a **dedicated time and space for the Agile team** to reflect on their work, processes, and interactions, with the aim of improving their future performance.

Teams can **document retrospective findings**, action items, lessons learned, and sprint review summaries, providing a centralized record for continuous improvement with the use of **CONFLUENCE**.

The screenshot shows a Confluence page titled "Flipkart Project retrospective" created by Vimalraj Kamalanathan. The left sidebar contains navigation options like "All content", "Blogs", "Automation", "Space settings", "SHORTCUTS", and "CONTENT". The main content area has an "Overview" section with the text: "Reflect on past work and identify opportunities for improvement by following the instructions for the Retrospective Play." Below this is a table with the following data:

Date	Oct 16, 2023
Team	Testing Team
Participants	@Vimalraj Kamalanathan

The screenshot shows a Confluence page titled "Retrospective" with a table for recording items. The table has three columns: "Start doing", "Stop doing", and "Keep doing". The "Start doing" column contains two items: "Learn automation tools from tutorials." and "Cross-team training". The "Stop doing" column contains two items: "Stop conducting scrum for more than 15 minutes." and "Stop taking unplanned leaves." The "Keep doing" column contains one item: "Maintain the product backlog in a transparent way." Below the table is an "Action items" section with two items: "@scrummaster Please plan to finish the scrum meetings in 15 minutes." and "@team Don't take unplanned leave's."

-----The End-----