

**Department of Computer Engineering**

**Academic Term: First Term 2023-24**

**Class: T.E /Computer Sem – V / Software Engineering**

<b>Practical No:</b>	<b>3</b>
<b>Title:</b>	<b>Implementing Project using KANBAN method on JIRA Tool</b>
<b>Date of Performance:</b>	
<b>Roll No:</b>	9567, 9552, 9623
<b>Team Members:</b>	Shruti Patil , Mrunal Kotambkar, Dhruv Mayekar

**Rubrics for Evaluation:**

<b>Sr. No</b>	<b>Performance Indicator</b>	<b>Excellent</b>	<b>Good</b>	<b>Below Average</b>	<b>Total Score</b>
1	On time Completion & Submission (01)	01 (On Time )	NA	00 (Not on Time)	
2	Theory Understanding(02)	02(Correct )	NA	01 (Tried)	
3	Content Quality (03)	03(All used)	02 (Partial)	01(rarely followed)	
4	Post Lab Questions (04)	04(done well)	3 (Partially Correct)	2(submitted)	

**Signature of the Teacher:**

**Department of Computer Engineering**

**Academic Term: First Term 2022-23**

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## Start Sprint

8 issues will be included in this sprint.

Required fields are marked with an asterisk \*

Sprint name \*

Duration \*

2 weeks

Start date \*

10/20/2023 12:41 AM

End date \*

11/3/2023 12:41 AM

Sprint goal

[Start](#) [Cancel](#)

Sprints

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TO DO 10 IN PROGRESS 1 DONE 1

WST-1 Login\_Page 4 issues (99/99)

Sell  
WST-4

Donate  
WST-2

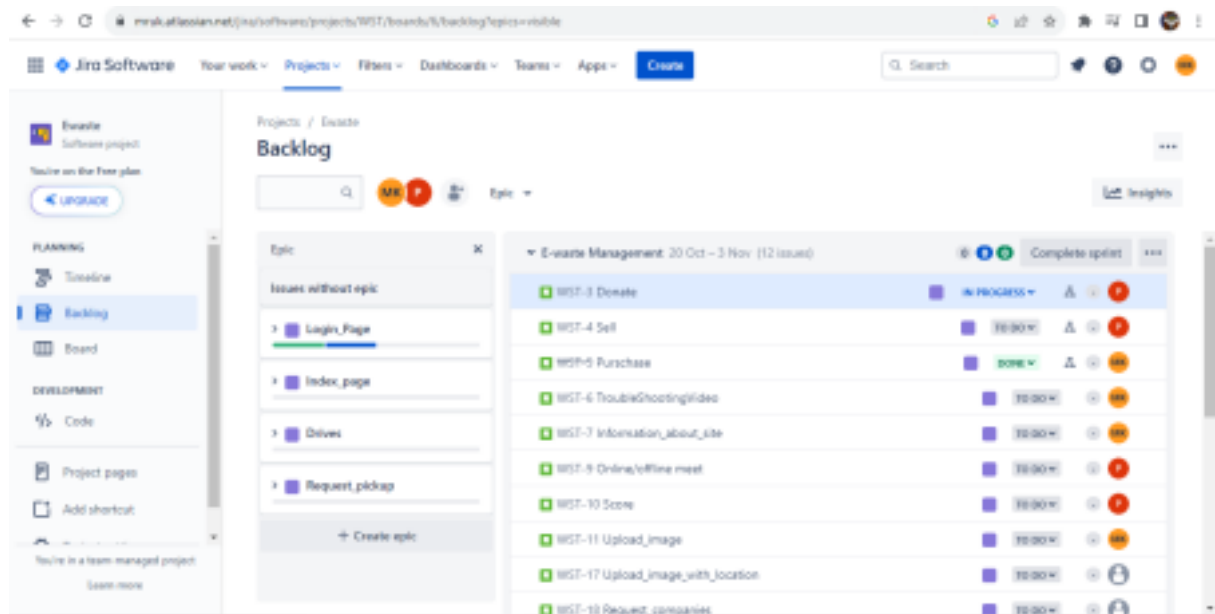
Purchase  
WST-5

Payment  
WST-28

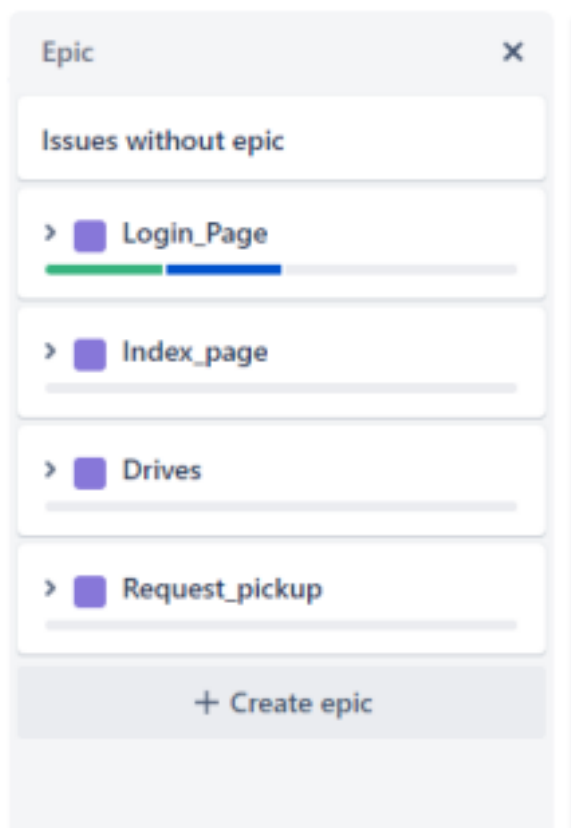
WST-2 Index\_page 2 issues (30/30)

TroubleShootingVideo  
WST-6

Board



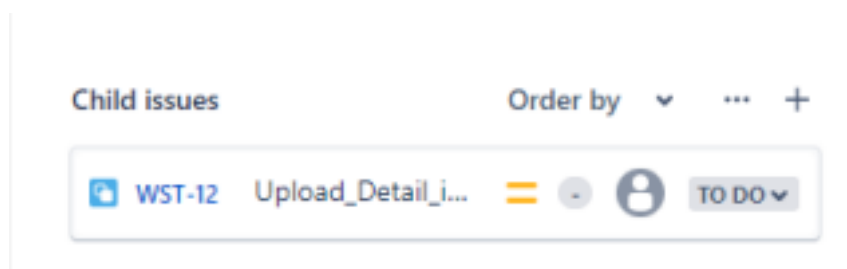
Backlog



Epic

WST-3 Donate	IN PROGRESS		
WST-4 Sell	TO DO		
WST-5 Purchase	DONE		MK
WST-6 TroubleshootingVideo	TO DO		MK
WST-7 Information_about_site	TO DO		MK
WST-9 Online/offline meet	TO DO		P
WST-10 Score	TO DO		P
WST-11 Upload_image	TO DO		MK
WST-17 Upload_image_with_location	TO DO		
WST-18 Request_companies	TO DO		

Stories



Subtask

POSTLAB:

Q1 ANS: Kanban and Scrum are both agile methodologies, but they have distinct characteristics when it comes to flexibility, adaptability, and workflow management in various project scenarios.

**Flexibility:**

**Kanban:** Kanban is highly flexible and focuses on continuous improvement. It allows teams to adapt to changing priorities and requirements easily. New tasks can be added to the backlog and pulled into the workflow as capacity allows.

**Scrum:** Scrum is more rigid in terms of its time-boxed iterations (sprints). Changes to the sprint backlog are discouraged during a sprint to maintain stability, but they can be considered for the next sprint, making it less flexible within a sprint.

**Adaptability:**

**Kanban:** Kanban is designed for incremental, evolutionary change. It's suitable for projects with constantly changing requirements or where adaptability is a top priority.

**Scrum:** Scrum encourages teams to inspect and adapt at the end of each sprint, allowing for regular adjustments. However, changes are typically planned for the next sprint, which may not be as responsive as Kanban's continuous adaptation.

**Workflow Management:**

**Kanban:** Kanban visualizes the entire workflow, making it easier to identify bottlenecks and optimize processes. Work items flow through stages based on their priority, and there are no prescribed ceremonies or roles.

**Scrum:** Scrum prescribes specific roles (Product Owner, Scrum Master, and Development Team) and ceremonies (Sprint Planning, Daily Standup, Sprint Review, Sprint Retrospective) to manage the workflow. It provides a more structured approach to work management.

**Project Scenarios:** Kanban: Kanban is well-suited for support and maintenance projects, where tasks arrive unpredictably. or for teams that need to balance multiple concurrent projects. Scrum: Scrum works best for projects with well-defined goals and a stable backlog. It's effective for delivering features or products in a series of iterations. In summary, Kanban offers greater flexibility and adaptability, making it suitable for scenarios with changing priorities and ongoing optimization, Scrum provides a more structured approach with fixed sprint durations, making it better for projects with defined goals and less frequent changes. The choice between them depends on the specific needs and nature of the project. Some teams even combine elements of both methodologies to create a hybrid approach that suits their unique circumstances

**Q2 ANS:** Analyzing a Kanban board in JIRA and proposing improvements to optimize efficiency and productivity involves a detailed examination of the current workflow. Here are some steps to help you with this analysis and suggestions for improvements: **Review the Current Workflow:** Start by examining the existing Kanban board in JIRA. Identify the columns representing different stages of work (eg. To Do, In Progress, Testing, Done). **WIP (Work in Progress) Limits:** Ensure that Work in Progress limits are defined for each column. If not, establish and enforce these limits. WIP limits prevent overloading team members and maintain a smoother flow of work. **Cycle Time Analysis:** Analyze the historical data on cycle times (the time it takes for a task to move from one column to another). Identify any bottlenecks or consistently delayed stages. **Classify and Prioritize Work Items:** Categorize work items based on priority, complexity, or type. Use swimlanes or labels to differentiate between different types of tasks. This can help in focusing on high-priority items. **Visualize Dependencies:** Use links, sub-tasks, or other visual cues to indicate dependencies between tasks. This helps the team see and manage interrelated work items more effectively. **Regular Standup Meetings:** If not already in place, introduce daily standup meetings for the team to discuss progress, blockers, and potential improvements. These meetings promote transparency and collaboration. **Continuous Improvement** Encourage the team to regularly review and reflect on their process. Hold retrospective meetings after a certain number of completed tasks or at the end of each sprint to identify areas for improvement. **Automate Repetitive Tasks:** Identify any repetitive or manual tasks that can be automated using JIRA plugins or integrations