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

Practical No:	**2**
Title:	**Implementing project using scrum method on Jira tool**
Date of Performance:	**03/08/2023**
Roll No:	**9607**
Team Members:	**Lisa Gonsalves**

Rubrics for Evaluation:

Sr. No	Performance Indicator	Excellent	Good	Below Average	Total Score
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:

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Signature of the Teacher:

Output

1. **Sprint**

∨ **E1 Sprint 1** 3 Aug – 31 Aug (5 issues)   9 0 0   Complete sprint   •••
   Complete till E1-3

☐ 🔖 E1-1 implement home page	IMPORTANT	9	TO DO ∨	🧑
☑ 🔖 E1-2 Implement payment gateway	CRITICAL	-	TO DO ∨	🧑
☐ 🔖 E1-3 Implement User Aunthentication	CRITICAL	-	TO DO ∨	🧑
☐ 🔖 E1-4 Implement the emergency feature	IMPORTANT	-	TO DO ∨	🧑
☐ 🔖 E1-5 Implement the calendar		-	TO DO ∨	🧑

+ Create issue

2. **Backlog**

∨ **Backlog** (2 issues)   0 0 0   Create sprint

☐ 🔖 E1-6 Implement Prediction	-	TO DO ∨	🧑
☐ 🔖 E1-9 Implement Dashboard		TO DO ∨	🧑

+ Create issue

3. Timeline

Timeline

📢 Give feedback   ⟨ Share   ⬆ Export   ⋯

🔍 [   ]   CC 👤 👤⁺   Status category ⌄   Epic ⌄   ⚙

		AUG	SEP	
Sprints		E1 Sprint 1		
› ⚡ E1-7 Important		▬▬▬▬▬		
› ⚡ E1-8 Critical		▬▬▬▬▬		
+ Create Epic				

❯   Today   Weeks   **Months**   Quarters   ℹ   ⤢
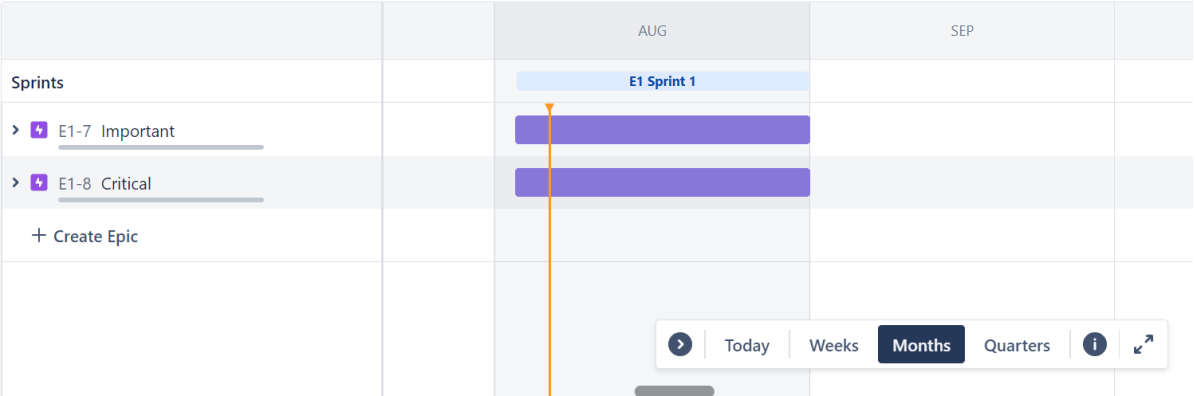
4. Sprint

E1 Sprint 1
Complete till E1-3

🗲 ☆ 🕐 18 days remaining   **Complete sprint**   ⋯

🔍 [   ]   CC 👤⁺   Epic ⌄   GROUP BY None ⌄   📈 Insights

TO DO 5	IN PROGRESS	DONE ✓	+
implement home page IMPORTANT ▣ E1-1 9 👤			
Implement payment gateway CRITICAL ▣ E1-2 👤			
Implement User Aunthentication			
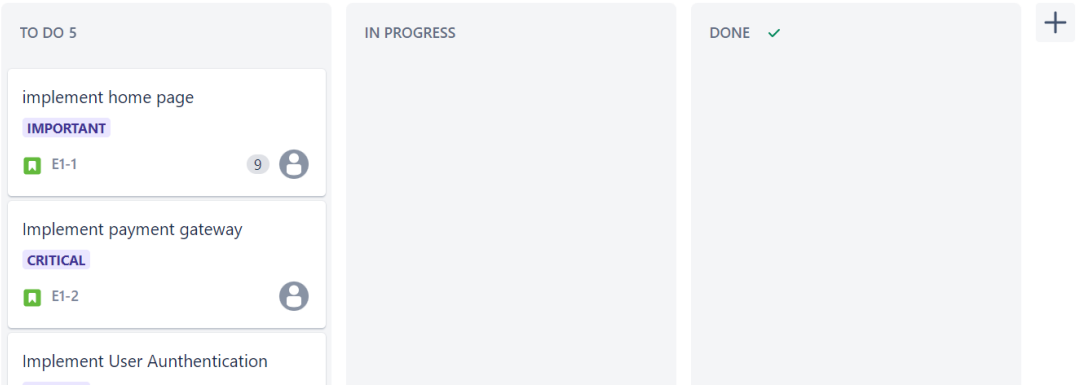
POSTLAB

a) Assess the effectiveness of the Scrum framework for managing software development projects compared to traditional project management methodologies.

Scrum is an agile framework that proves effective for software development projects with evolving and uncertain requirements. Its iterative approach, divided into fixed-length sprints, allows for frequent inspections, continuous adaptation, and early value delivery. Scrum encourages collaboration within cross-functional teams and emphasizes regular communication to ensure alignment and quick decision-making. Customer involvement is prioritized through frequent feedback and demonstrations, leading to a better understanding of customer needs and expectations. On the other hand, traditional project management methodologies, like Waterfall, follow a linear and sequential approach with distinct phases for planning, development, and testing. While traditional methods can provide more detailed upfront planning, they may struggle to handle changes effectively as the project progresses. The effectiveness of Scrum lies in its ability to embrace change, promote customer-centricity, and facilitate risk management through regular reviews and retrospectives. It suits projects where requirements are likely to evolve and where early delivery of functional increments is valuable. Traditional methodologies, however, may be more suitable for projects with well-defined and stable requirements that can be planned in advance with limited changes expected. Ultimately, the choice between Scrum and traditional methodologies depends on the project's specific characteristics, the level of uncertainty in requirements, and the organization's preference for flexibility or predictability. Both approaches have their strengths and limitations, and organizations must weigh these factors to determine the most suitable approach for their software development projects.

b)Analyse a Sprint Backlog in JIRA and identify any potential bottlenecks or issues that might hinder the team's progress during the sprint.

Potential bottlenecks or issues that might hinder the team's progress during the sprint could include:
- Overloaded Sprint: If the Sprint Backlog contains too many user stories or tasks, it could overwhelm the team and lead to incomplete work at the end of the sprint.
- Undefined or Unclear User Stories: If user stories are poorly defined or lack acceptance criteria, the team may struggle to understand the requirements, leading to delays and rework.
- Resource Constraints: If the team is understaffed or lacks expertise in certain areas, it may struggle to complete certain tasks within the sprint's timeframe.
- External Dependencies: If the team relies on external teams or stakeholders for input or approvals, delays in receiving feedback could impact progress.
- Scope Creep: If new requirements are introduced during the sprint without proper evaluation, it can disrupt the team's focus and lead to scope creep.
- Task Dependencies: If tasks are dependent on each other, delays in completing one task could cause a cascading effect on other tasks, slowing down progress.

- Inadequate Testing: Insufficient time allocated for testing or unresolved defects can impact the team's ability to deliver a high-quality product.
- Blocked or Stalled Tasks: If tasks are blocked due to issues outside the team's control or waiting for dependencies, it can hinder progress.
- Inaccurate Estimates: If the team's initial estimates are inaccurate, they may struggle to complete all planned work within the sprint.
- Ineffective Communication: Lack of clear communication or misalignment between team members can lead to misunderstandings and delays.

To address these issues, the team should regularly review the Sprint Backlog, prioritize tasks, and collaborate effectively to resolve blockers. Clear communication with stakeholders and ongoing monitoring of progress can help the team identify and mitigate potential bottlenecks, ensuring a successful sprint delivery.

c) Evaluate the role of the Scrum Master in handling conflicts within the development team and resolving impediments to maintain a smooth project flow.

The Scrum Master plays a pivotal role in handling conflicts within the development team and resolving impediments to maintain a smooth project flow. They act as a mediator, facilitating open communication and consensus-building among team members. By practicing servant leadership, they support the team and ensure they have the necessary resources. The Scrum Master promotes transparency, making progress and impediments visible, and shields the team from external disturbances. Their focus on continuous improvement fosters a positive and productive team environment, contributing to the overall success of the Scrum project.