

**Department of Computer Engineering**

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

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

<b>Practical No:</b>	2
<b>Title:</b>	Implementing Project using Scrum method on JIRA Tool
<b>Date of Performance:</b>	01.08.2023
<b>Roll No:</b>	9649
<b>Team Members:</b>	Ishita Yadav, Kashmira Sukhtankar, Aaron Rodrigues

**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:**

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## 1. Creating a project

\*indicates a required field.

Name \*

stock market prediction

Template [More templates](#)

**Scrum**  
Jira Software  
Sprint toward your project goals with a board, backlog, and timeline.

▼ Show less

Project type

Team-managed ▼

Key \*

SMP

Back **Create project**

Team-managed project

SMP-1 SMP-2 SMP-3 SMP-4 SMP-5 SMP-6 SMP-7 SMP-8 SMP-9

## 2. Creating an epic

**A stock predicting model using machine learning**

Project \*

stock market prediction (SMP) ▼

Issue type \* Status

Epic ▼ **DONE** ▼

[Learn more](#)

Summary \*

A stock predicting model using machine learning

Description

Aa ▼ B I ... A ▼ ☰ ▼ + ▼

A stock predicting model using machine learning

☐ Create another issue **Create**

### 3. Creating a story

front-end development

Project \*

stock market prediction (SMP)

Issue type \*

Story

Status

TO DO

[Learn more](#)

Summary \*

front-end development

Description

Aa B I ... A ... +

front-end development

☐ Create another issue

Create

### 4. Assigning subtasks

Projects / stock market predict... / Add epic / SMP-2

Child issues

Order by ... +

SMP-3 dashboard creation

-

TO DO

What needs to be done?

Choose an existing issue

Create

Cancel

Activity

Show: All Comments History

Newest first

## 5. Sprint

### Edit sprint: SMP Sprint 1

Sprint name \*

Duration

2 weeks ▼

Start date

8/4/2023 9:30 AM ✕

End date

8/18/2023 9:30 AM

Sprint goal

Update Cancel

### Postlab:

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

Sol: The main difference between scrum and traditional project management methodologies can be summed up as fixed scope vs. iterative decision making. Classic project management calls for project managers to look at the development as a whole whereas Scrum has no problem dividing it up into segments. Unlike classic project management methods, Scrum focuses more on personal responsibility.

Scrum Framework management	Traditional Project Management
Emphasizes flexibility and adaptability	Emphasizes planning and predictability
Prioritizes customer satisfaction and working software	Prioritizes following a strict plan and meeting project requirements
Linear	Iterative
Large scale	Small and medium scale
Life cycle model	Evolutionary delivery model
Self-organizing teams	Heirarchically organized teams
Cross functional teams	Functionally divided teams

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

Sol: The backlog of a Scrum board shows the issues for your project grouped into a backlog and sprints. In the Scrum backlog, you can create and update issues, drag and drop issues to rank them, or assign them to sprints, epics, or versions, manage epics, and more. You'd typically use the Scrum backlog when building a backlog of issues, planning a new version, and planning a sprint. An issue will only be visible in the Scrum backlog if:

1. the issue isn't a subtask
2. the issue matches the board's saved filter
3. the issue's status maps to one of the board's columns (but not the Done column)
4. there's at least a status being mapped to the right-most column. For example, if you have the columns To Do, In Progress, and Done, ensure that you have a status mapped to In Progress at least. If you map all the statuses to the first (To Do) column, you won't see any issues in the Scrum backlog.

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

Sol: A Scrum Master (Scrum Master), popularly known as the “servant leader” is a coach, motivator and leader of an Agile team. The role of a Scrum Master is to educate the team on Agile processes and help team members follow Scrum practices religiously. A good Scrum Master helps to establish a highperforming team dynamic, a continuous flow, and an exponential improvement in processes. They are required to play a pivotal role and are responsible for the progressive development of a Scrum team. The Scrum Master collaborates both with the Product Owner (PO) who focuses on building the right product, and the development team that focuses on building the product right. A Scrum Master’s job is essentially to help everyone understand and imbibe Scrum values, principles, and practices and get the best product out to the customer. To facilitate conflict management in Scrum teams, Scrum masters can create and maintain a safe and positive team environment, model and promote behaviors and attitudes that foster constructive conflict, educate and empower the team to prevent, minimize, and resolve conflict, mediate and facilitate the conflict resolution process when needed, provide feedback and guidance to the team and the individuals on how to improve their conflict management skills, and encourage and support the team to leverage conflict for improvement.