

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

Practical No:	3
Title:	Implementing Project using the KANBAN method on the JIRA Tool
Date of Performance:	09/08/2023
Roll No:	9614
Team Members:	Mudabbir Bhat(9589), Muhammad Batliwala(9588), Nathan Dias(9597), Aqib Firdous(9614)

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:
Teacher:

Lab Experiment 03

Experiment Name: Implementing Project Using Kanban Method on JIRA Tool in Software Engineering

Objective: The objective of this lab experiment is to introduce students to the Kanban method and its implementation using the JIRA tool. Students will gain practical experience in managing a software project using Kanban principles and learn how to utilize JIRA as a project management tool to visualize workflow, manage work items, and improve team productivity.

Introduction: Kanban is an agile project management method that emphasizes visualizing work, limiting work in progress, and continuously improving the workflow. JIRA is a popular tool that supports Kanban practices, allowing teams to manage their tasks and activities effectively.

Lab Experiment Overview:

1. Introduction to Kanban: The lab session begins with an overview of the Kanban method, including the principles of visualizing work, managing flow, and making incremental improvements.
2. JIRA Tool Introduction: Students are introduced to the JIRA tool and its features for implementing Kanban. They learn to create boards, swimlanes, and columns, and customize workflows.
3. Defining the Project: Students are assigned a sample software project and create a Kanban board in JIRA to visualize their workflow. They set up columns to represent different stages of their development process.
4. Creating Work Items: Students create work items (tasks, user stories, or issues) on the Kanban board, representing the work that needs to be done.
5. Managing Workflow: Students move work items through the columns on the Kanban board as they progress through their development process. They monitor work-in-progress limits to maintain an efficient workflow.
6. Continuous Improvement: Students conduct regular team meetings to discuss the workflow, identify bottlenecks, and make improvements to enhance their efficiency.
7. Completion and Review: At the end of the lab experiment, students review their project progress on the Kanban board. They discuss their experiences with implementing the Kanban method on JIRA and share insights on its effectiveness.
8. Conclusion and Reflection: Students reflect on their experience with Kanban and JIRA, discussing the benefits and challenges they encountered during the project. They also consider how Kanban principles can be applied to future software development projects.

Learning Outcomes: By the end of this lab experiment, students are expected to:

- Understand the Kanban method and its application in agile project management.
- Gain practical experience in using the JIRA tool to implement Kanban boards and workflows.
- Learn to visualize work, manage flow, and limit work in progress using Kanban principles.

- Develop team collaboration skills by continuously improving the workflow through regular team meetings.
- Appreciate the importance of visualizing and managing work items for better project management.

Pre-Lab Preparations: Before the lab session, students should familiarize themselves with the Kanban method and the basics of the JIRA tool. They should review Kanban principles, visualize workflows, and the features of JIRA relevant to Kanban implementation.

Materials and Resources:

- Computers with internet access for accessing the JIRA tool
- Project brief and details for the sample software project
- Whiteboard or projector for explaining Kanban concepts

Conclusion: The lab experiment on implementing a project using the Kanban method on the JIRA tool provides students with practical insights into agile project management. By applying Kanban principles and utilizing JIRA's capabilities, students learn to visualize their work, manage flow efficiently, and continuously improve their development process. The hands-on experience with Kanban and JIRA fosters teamwork, collaboration, and adaptability, enabling students to effectively manage software projects with a focus on efficiency and quality. The lab experiment encourages students to adopt Kanban's lean principles, promoting a culture of continuous improvement and optimizing their workflow to deliver valuable software products.

MYP board

Q

MB

Invite

Epic ▾

BRAINSTORMING 3

TO DO 6

IN PROGRESS 6

DONE ✓

▼ Everything else 16 issues

Research about the various farming related websites and apps
LITERATURE SURVEY
✓ MYP-5

See what all features can be added
LITERATURE SURVEY
✓ MYP-6

Check for all the coding errors
FINAL PROJECT CHECK
✓ MYP-28

Present before the panel
PRESENTAION OF PROJECT
✓ MYP-13

Create the database
BACKEND DEVELOPMENT
✓ MYP-19

Use php to link the frontend with database
BACKEND DEVELOPMENT
✓ MYP-20

Provide the Contact information in the footer

practice for the presentation
PRESENTAION OF PROJECT
✓ MYP-12

Create a basic design of homepage on paint
FRONT END DEVELOPMENT
✓ MYP-15

Code for frontend
FRONT END DEVELOPMENT
✓ MYP-17

Add a weather Api to the website

Q See all Done

MYP board

Q

MB

Invite

Epic ▾

BRAINSTORMING 3

TO DO 6

IN PROGRESS 6

DONE ✓

CANCELLED TASKS 1

▼ Everything else 16 issues

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✓ MYP-17

Add a weather Api to the website

Q See all Done issues

post the site online
FINAL PROJECT CHECK
✓ MYP-29

BRAINSTORMING 3



TO DO

▼ Everything else 16 issues

Research about the various farming related websites and apps

LITERATURE SURVEY

MYP-5

Present

PRESENT

MY

Myproject
Software project

You're on the Free plan

UPGRADE

PLANNING

Timeline

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

Projects / Myproject

Issues

Search issues

Project: Myproject

Type

Status

Assignee

Status Category: Done

More +

Reset

Save filter

BASIC JQL

Created

Prepare the project proposal

MYP-11

Prepare the presentation

MYP-10

Create an excel sheet of the features to be added for the website

MYP-7

MYP-9 / MYP-11

Prepare the project proposal

Attach Add a child issue Link issue

Description

Add a description...

Activity

Show: All Comments History

Newest first

1 of 5

Done Done

Actions

Details

Assignee

Unassigned

Assign to me

Labels

Myproject
Software project

You're on the Free plan

UPGRADE

PLANNING

Timeline

Board

DEVELOPMENT

Code

Project pages

Add shortcut

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Projects / Myproject

Issues

Search issues

Project: Myproject

Type

Status

Assignee

Status Category: Done

More +

Reset

Save filter

BASIC JQL

Type	Key	Summary	Assignee	Reporter	P	Status
<input checked="" type="checkbox"/>	MYP-11	Prepare the project proposal	Unassigned	MB Mudabbir Bhat	=	IN PROGRESS
<input checked="" type="checkbox"/>	MYP-10	Prepare the presentation	Unassigned	MB Mudabbir Bhat	=	DONE
<input checked="" type="checkbox"/>	MYP-7	Create an excel sheet of the features to be added for the website	Unassigned	MB Mudabbir Bhat	=	DONE
<input checked="" type="checkbox"/>	MYP-3	Research about the online farming related websites	Unassigned	MB Mudabbir Bhat	=	DONE
<input checked="" type="checkbox"/>	MYP-2	Research about some projects	Unassigned	MB Mudabbir Bhat	=	DONE

Give feedback

1-5 of 5

< 1 >

You're in a team-managed project

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Myproject
Software project
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UPGRADE

PLANNING
Timeline
Board

DEVELOPMENT
Code
Project pages
Add shortcut
Project settings

You're in a team-managed project.
Learn more

Projects / Myproject

MYP board

MB Epic ▾

GROUP BY Subtask ▾ Insights

BRAINSTORMING 3 TO DO 6 IN PROGRESS 6 DONE ✓

Everything else 16 issues

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MYP-5

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MYP-6

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MYP-17

Add a weather Api to the website

See all Done issues



