

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

Theory:

Introduction to Agile Methodology

Agile methodology is an iterative approach to software development that focuses on flexibility, collaboration, and customer feedback. It follows principles from the Agile Manifesto, emphasizing working software, customer collaboration, and responsiveness to change. Agile methodologies include Scrum, Kanban, and Extreme Programming (XP).

Test Case Management in Agile

Test case management in Agile ensures that testing is integrated throughout the development process rather than being a separate phase. JIRA, a widely used project management tool, supports test case management through plugins like Zephyr and Xray. Key aspects include:

- **Creating Test Cases:** Test cases are written in JIRA to verify software functionality.
- **Executing Tests:** Test execution is tracked within sprints to ensure quality assurance.
- **Defect Tracking:** Bugs and defects are logged and linked to user stories.
- **Continuous Integration:** Automated tests can be integrated with JIRA for real-time tracking.

Creating a Scrum Board in JIRA

A **Scrum Board** in JIRA helps Scrum Masters manage sprint tasks efficiently. The process includes:

1. **Creating a New Scrum Project:** JIRA provides templates for Agile projects.
2. **Defining Backlog Items:** Product backlog items (PBIs) or user stories are added.
3. **Sprint Planning:** Tasks are assigned to sprints, ensuring proper workload distribution.
4. **Tracking Progress:** The board visually represents tasks in "To Do," "In Progress," and "Done" columns.
5. **Sprint Review & Retrospective:** After each sprint, progress is reviewed, and improvements are discussed.

By utilizing JIRA for Agile project management, teams improve efficiency, collaboration, and project transparency.

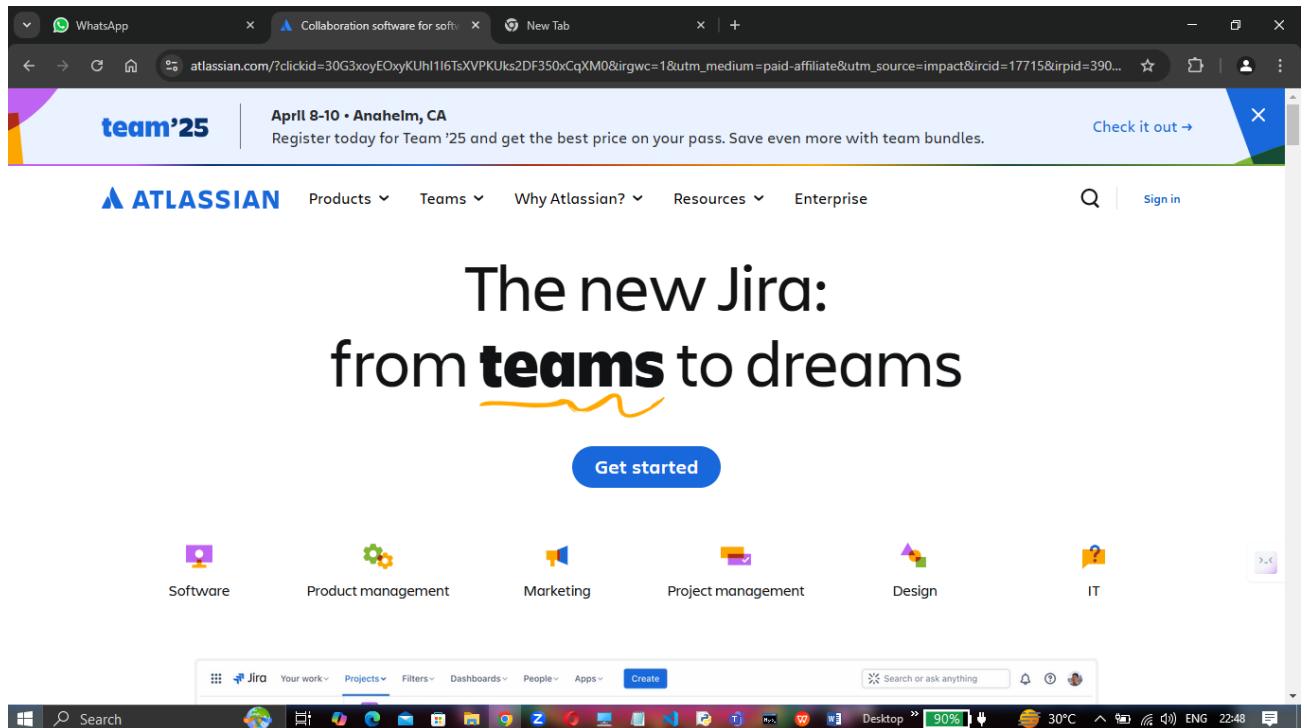
Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

➤ Implementation:

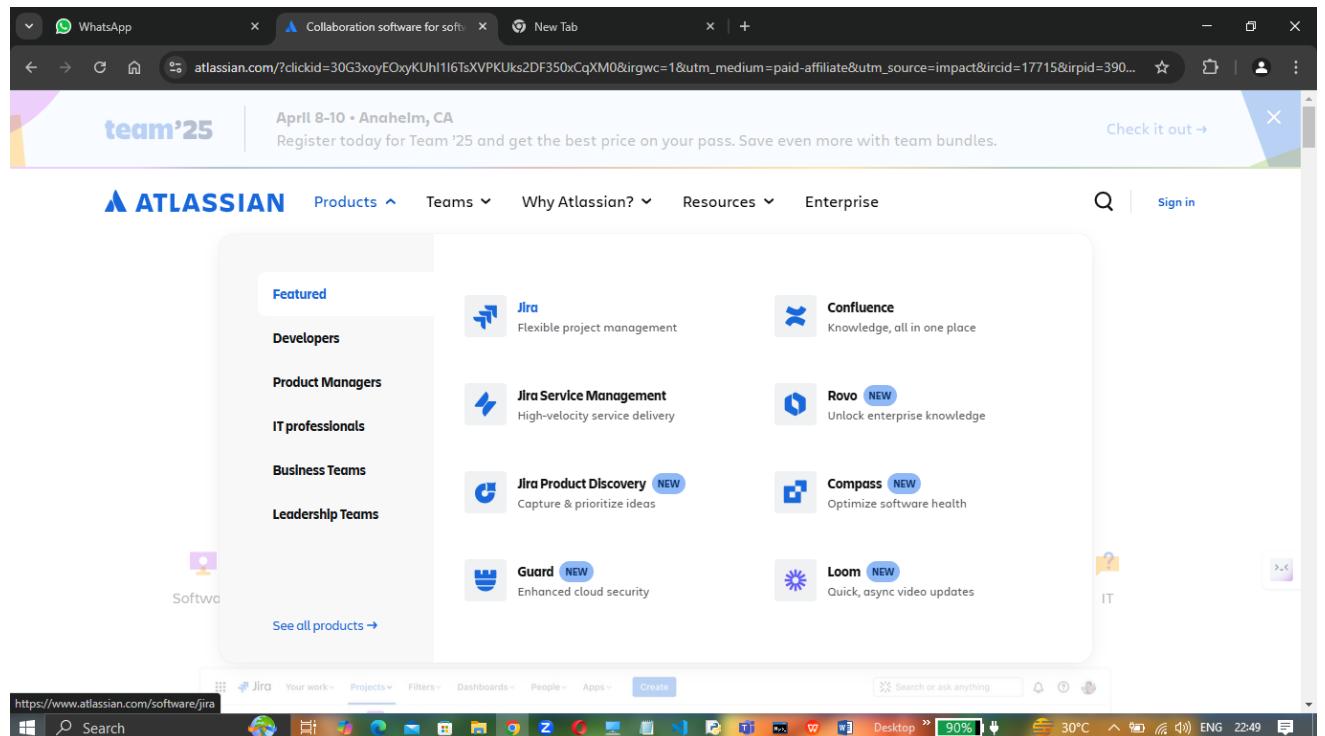
JIRA Account Creation:

- 1) Open [atlassian.com](https://www.atlassian.com) webpage
- 2) Select products and click on Jira Software
- 3) Click on “Get it free”

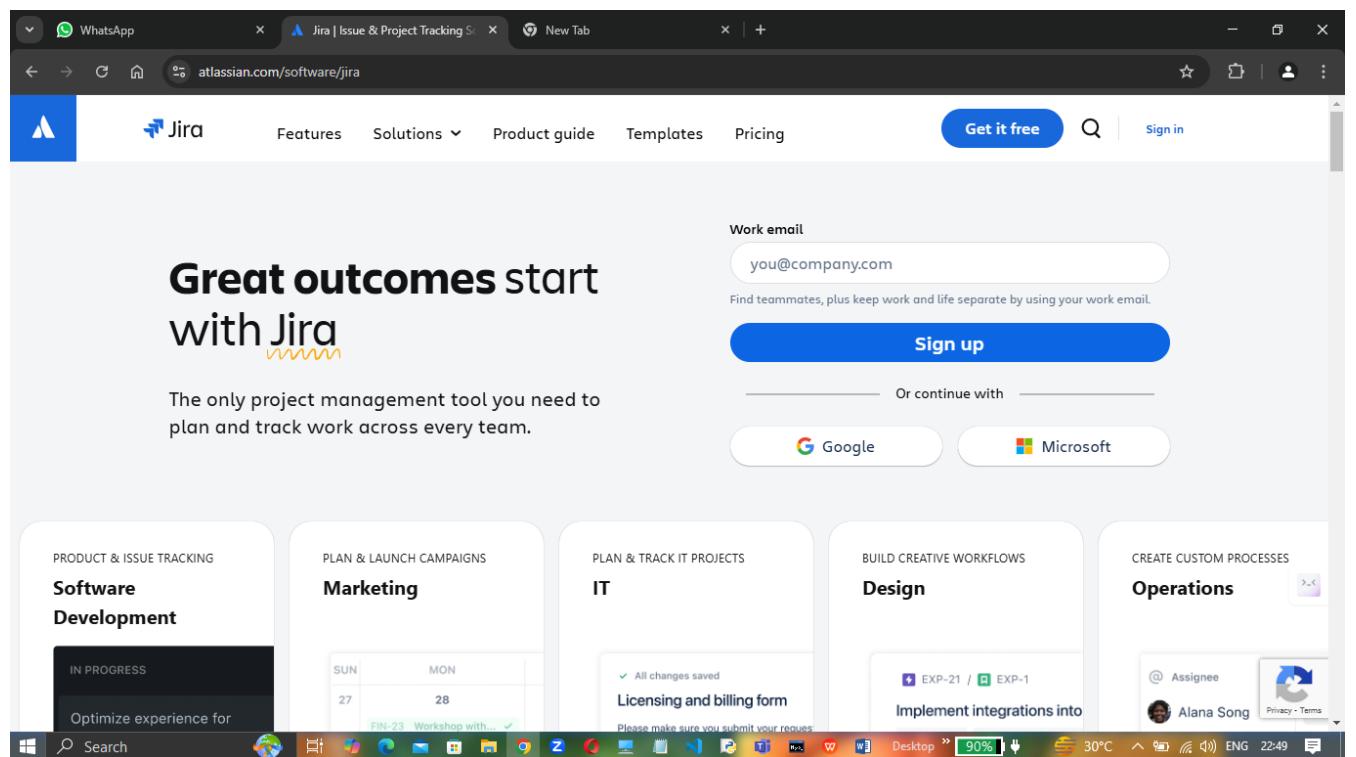


Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.



4) Select Continue with Google



Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

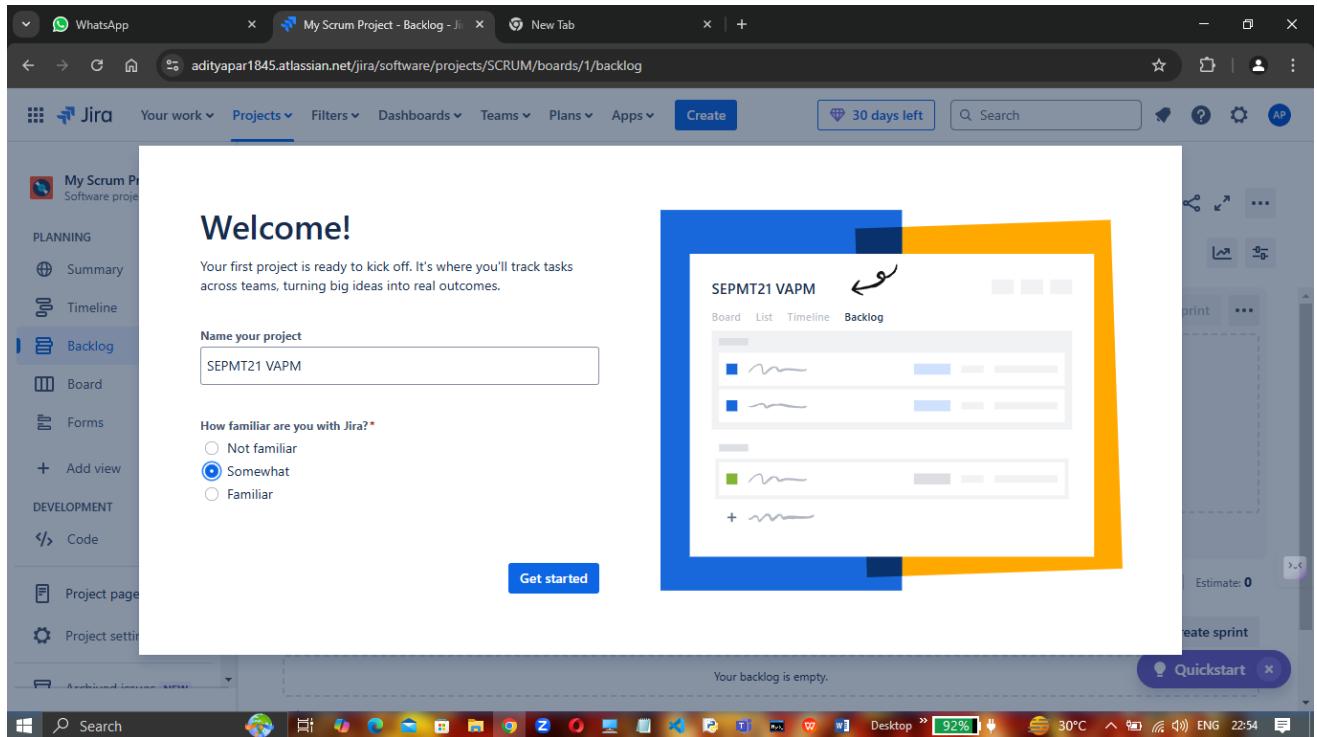
5) Give a name to your site.

The screenshot shows a browser window with two tabs. The top tab is titled "atlassian.com/try/cloud/signup?bundle=jira-software&edition=free&application=wac--otp-jira&social-signup-login=true" and displays the Jira logo with a welcome message: "Welcome back, Adi". It asks for a site name, which is "adityapar1845.atlassian.net" with a green checkmark. Below this is a terms and conditions agreement section. A blue button at the bottom says "Agree and start now". The bottom tab is titled "Confirmation | Atlassian" and shows the URL "atlassian.com/ondemand/signup/confirmation?ondemandurl=adityapar1845&products=jira-software.ondemand&edition=free&orchestrationId=2cab316d-be...". It displays the heading "Select a template to get started" and three options: "Kanban" (Manage and track agile work plus integrate developer tools like GitHub), "Project management" (Designed to help business teams manage work with list and calendar views), and "Scrum" (Plan, prioritize, and schedule sprints using scrum framework). A "Continue" button is at the bottom of this section. The desktop taskbar at the bottom shows various pinned icons and system status.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

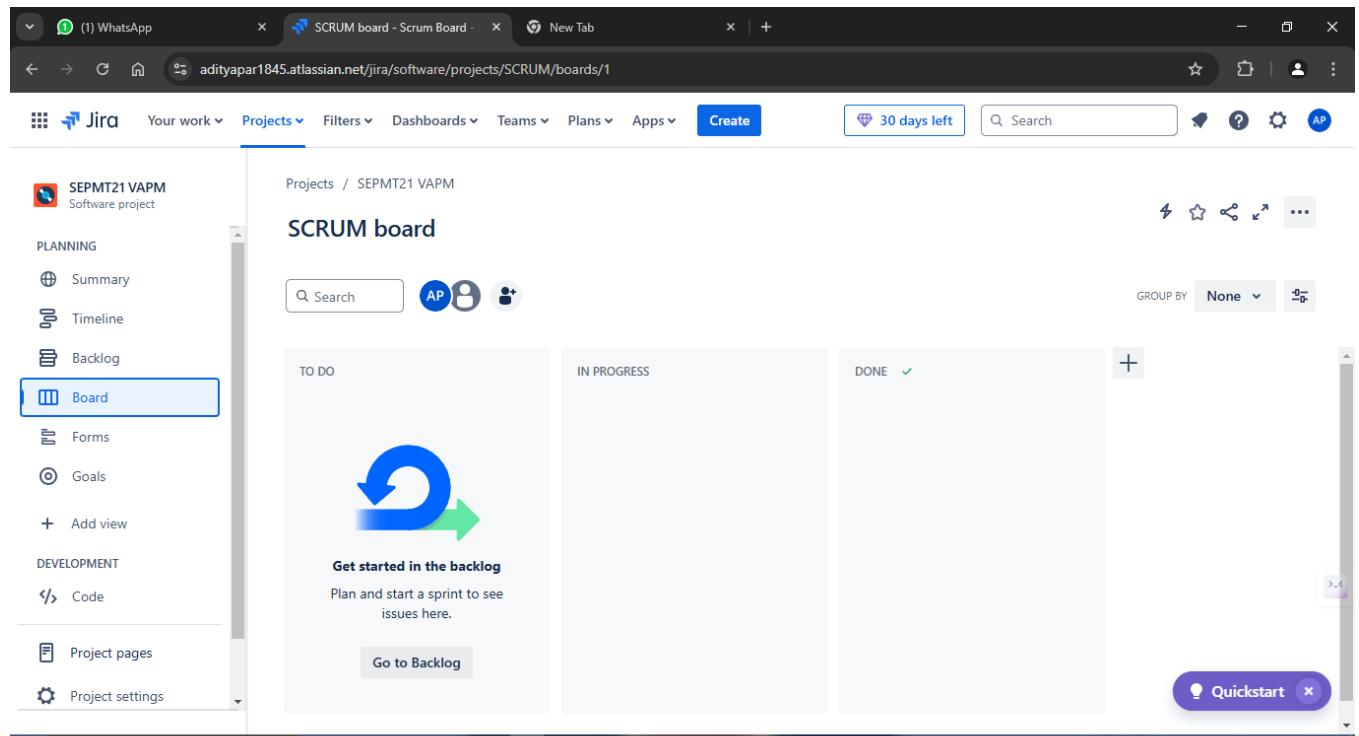
6) Add project details



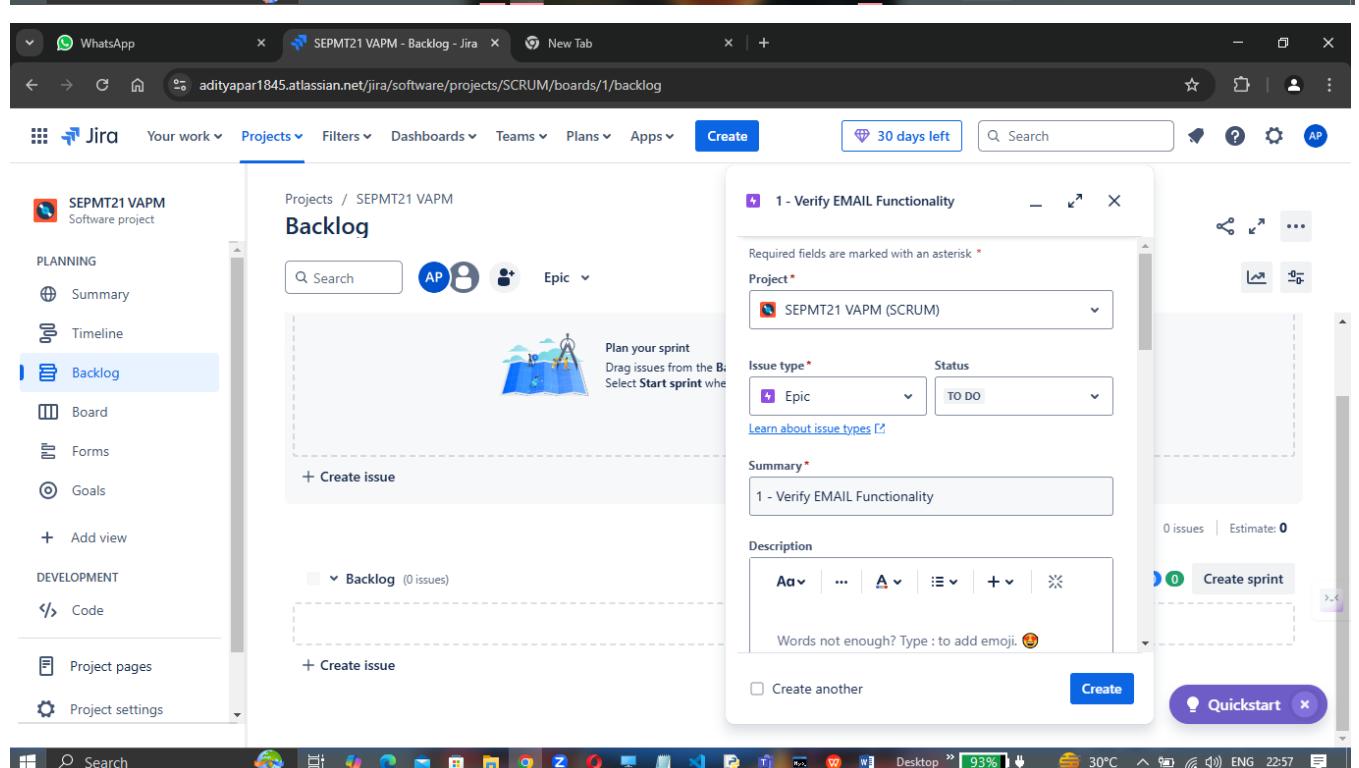
7) Implement Agile and Scrum using various features of JIRA tool such as sprints, timeline, scrum board, make a team and add members,etc

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.



The screenshot shows the Jira SCRUM board for the project 'SEPMT21 VAPM'. The left sidebar is open, showing options like Planning, Development, and Backlog. The 'Board' option is selected. The main area displays three columns: 'TO DO', 'IN PROGRESS', and 'DONE'. A large blue circular arrow icon is centered in the 'TO DO' column, with the text 'Get started in the backlog' and 'Plan and start a sprint to see issues here.' Below it is a 'Go to Backlog' button. A 'Quickstart' button is located in the bottom right corner of the board area.



The screenshot shows the Jira Backlog interface for the same project. The left sidebar is open, showing the 'Backlog' option is selected. The main area shows a backlog with a count of 0 issues. A new issue creation dialog is open on the right, titled '1 - Verify EMAIL Functionality'. It includes fields for 'Project' (set to 'SEPMT21 VAPM (SCRUM)'), 'Issue type' (set to 'Epic'), 'Status' (set to 'TO DO'), 'Summary' (containing '1 - Verify EMAIL Functionality'), and 'Description' (containing 'Words not enough? Type : to add emoji. 😊'). There are buttons for 'Create another' and 'Create' at the bottom right. A 'Quickstart' button is also present.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

Summary

0 completed in the last 7 days

1 updated in the last 7 days

1 created in the last 7 days

0 due in the next 7 days

Status overview

Get a snapshot of the status of your issues. [View all issues](#)

1 Total issues

To Do (1)

In Progress (0)

Done (0)

Recent activity

Stay up to date with what's happening across the project.

Today

AP Adi Pro created [SCRUM-1: 1 - Verify EMAIL Functionality](#) TO DO 1 minute ago

Priority breakdown

Types of work

Quickstart

Summary

0 completed in the last 7 days

7 updated in the last 7 days

7 created in the last 7 days

0 due in the next 7 days

Status overview

Get a snapshot of the status of your issues. [View all issues](#)

7 Total issues

To Do (6)

In Progress (1)

Done (0)

Recent activity

Stay up to date with what's happening across the project.

Today

AP Adi Pro created [SCRUM-7: 7 - Submit report](#) TO DO less than a minute ago

AP Adi Pro created [SCRUM-6: 6 - Make report](#) TO DO 1 minute ago

AP Adi Pro created [SCRUM-5: 5 - Debug Code](#) TO DO 1 minute ago

You've created "SCRUM-5" issue

View issue · Copy link

You've created "SCRUM-4" issue

Priority breakdown

Types of work

Get a breakdown of issues by their types. [View all items](#)

7

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The screenshot shows the JIRA Summary page for the project "SEPMT21 VAPM". The left sidebar shows navigation options like PLANNING, DEVELOPMENT, and BACKLOG. The main area displays a summary card with metrics: 0 completed in the last 7 days, 7 updated in the last 7 days, 7 created in the last 7 days, and 0 due in the next 7 days. Below this is a "Status overview" section with a donut chart showing 7 total issues: To Do (6), In Progress (1), and Done (0). A "Recent activity" section lists three recent events from "Adi Pro": creating issues SCRM-7, SCRM-6, and SCRM-5, all less than a minute ago. There are also sections for "Priority breakdown" and "Types of work".

Screenshot of JIRA Backlog page for SCRUM Sprint 1 and 2.

The screenshot shows the JIRA Backlog page for the project "SEPMT21 VAPM". The left sidebar shows navigation options like PLANNING, DEVELOPMENT, and BACKLOG. The main area displays the backlog for SCRUM Sprint 1 and SCRUM Sprint 2. SCRUM Sprint 1 has one issue: "SCRM-2 - Verify login Functionality". SCRUM Sprint 2 is currently being planned. The backlog also includes a "Backlog" section with 5 issues. Buttons for "Start sprint" and "Plan on whiteboard" are visible at the bottom.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The screenshot shows the Jira SCRUM Sprint 1 board. On the left, the sidebar has 'Board' selected under 'Backlog'. The main area displays three columns: 'TO DO 1' containing '2 - Verify login Functionality' and 'SCRUM-2'; 'IN PROGRESS' which is empty; and 'DONE' which is also empty. A search bar and user icons are at the top. A notification box says 'Sprint started' and 'We've filtered the board to show your new sprint. Good luck, team!'. The status bar at the bottom shows system information like battery level, temperature, and network.

The screenshot shows the Jira Backlog screen with 'Backlog' selected in the sidebar. A modal dialog titled 'Start another sprint' is open, prompting for 'Sprint name*' (SCRUM Sprint 2), 'Duration*' (1 week), 'Start date*' (02/02/2025 23:03), and 'End date*' (09/02/2025 23:03). The background shows a list of backlog items and a progress bar indicating 1 issue estimated at 0. The status bar at the bottom shows system information.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The image shows two screenshots of the JIRA interface. The top screenshot displays the 'SCRUM Sprint 2' board. It features three columns: 'TO DO', 'IN PROGRESS 1 OF 1', and 'DONE'. Under 'TO DO', there is a button '+ Create issue'. In the 'IN PROGRESS' column, there is one item: '3 - Sent Email' with a checked checkbox. The bottom screenshot shows the 'Backlog' screen. It lists several items under 'Epics': 'SCRUM-3 3 - Sent Email' (status: IN PROGRESS), 'SCRUM-5 5 - Debug Code' (status: TO DO), and 'SCRUM-4 4 - Do coding' (status: TO DO). There are buttons for '+ Create issue' and '+ Epic'.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The image consists of two side-by-side screenshots of the Jira software interface, both showing a 'Scrum' board for a project named 'SEPMT21 VAPM'.

Screenshot 1: All sprints

This screenshot shows the 'All sprints' view. The sidebar on the left is titled 'Board' and is currently selected. The main area displays four columns: 'TO DO 1', 'PLANNED', 'IN PROGRESS 1', and 'DONE'. Under 'TO DO 1', there is one item: '2 - Verify login Functionality' assigned to 'SCRUM-2'. Under 'IN PROGRESS 1', there is one item: '3 - Sent Email' assigned to 'SCRUM-3'. The 'DONE' column is empty.

Screenshot 2: SCRUM Sprint 3

This screenshot shows the 'SCRUM Sprint 3' view. The sidebar on the left is also titled 'Board' and is selected. The main area displays four columns: 'TO DO', 'PLANNED 2 OF 2', 'IN PROGRESS', and 'DONE'. Under 'TO DO', there is one item: '+ Create issue'. Under 'PLANNED 2 OF 2', there are two items: '5 - Debug Code' assigned to 'SCRUM-5' and '4 - Do coding' assigned to 'SCRUM-4'. The 'IN PROGRESS' and 'DONE' columns are empty. A modal window at the bottom left says 'Sprint started' and 'We've filtered the board to show your new sprint. Good luck, team!'

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The image shows two screenshots of the Jira interface. The top screenshot displays the 'Backlog' view for the project 'SEPM21 VAPM'. It lists several items under 'SCRUM Sprint 4' and 'SCRUM Sprint 6', including 'SCRUM-4 4 - Do coding' (Planned), 'SCRUM-6 6 - Make report' (Planned), and 'SCRUM-7 7 - Submit report' (Planned). A sidebar on the left shows navigation options like 'Backlog' (selected), 'Board', and 'Project pages'. The bottom screenshot shows the 'Start another sprint' dialog. It prompts the user to enter a 'Sprint name' (SCRUM Sprint 4), 'Duration' (1 week), and 'Start date' (19/02/2025 at 23:06). The dialog also includes fields for 'End date' (26/02/2025 at 23:06) and 'Sprint goal'. A 'Start' button is visible at the bottom right of the dialog.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The image consists of two screenshots of the Jira software interface, likely taken from a Windows operating system.

Screenshot 1: SCRUM Sprint 4 - SCRUM board

- Left Sidebar:** Shows project navigation with "SEPMT21 VAPM Software project". Under "PLANNING", "Board" is selected. Other options include "Summary", "Timeline", "Backlog", "Forms", "Goals", and "+ Add view".
- Header:** Shows the URL "adityapar1845.atlassian.net/jira/software/projects/SCRUM/boards/1?sprintStarted=true&sprints=4".
- Main Area:** Displays a Scrum board with four columns: "TO DO", "PLANNED 2 OF 4", "IN PROGRESS", and "DONE".
 - "TO DO": "+ Create issue"
 - "PLANNED 2 OF 4":
 - 6 - Make report (checked)
 - 7 - Submit report (checked)
 - "IN PROGRESS": (empty)
 - "DONE": (empty)
- Bottom Left:** A tooltip message: "Sprint started" and "We've filtered the board to show your new sprint. Good luck, team!"

Screenshot 2: Summary - My Scrum Project

- Left Sidebar:** Shows project navigation with "SEPMT21 VAPM Software project". Under "PLANNING", "Summary" is selected. Other options include "Timeline", "Backlog", "Board", "Forms", "Goals", and "+ Add view".
- Header:** Shows the URL "adityapar1845.atlassian.net/jira/software/projects/SCRUM/summary".
- Main Area:** Displays a summary dashboard with various metrics and charts.
 - Status overview:** A donut chart showing 7 total issues, broken down by status: To Do (1), Planned (4), In Progress (2), and Done (0).
 - Recent activity:** A list of recent changes made by "Adi Pro".
 - Priority breakdown:** A chart showing the distribution of work by priority.
 - Types of work:** A chart showing the breakdown of issues by type.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The image consists of two screenshots of the Jira software interface, showing different views of a project timeline and a scrum board.

Timeline View (Top Screenshot):

- Project:** SEPMT21 VAPM
- View:** Timeline
- Sprints:** SCRUM Sprint 1, SCRUM Sprint 2, SCRUM Sprint 3, SCRUM Sprint 4
- Tasks:** SCRUM-1: Verify EMAIL Functionality

All sprints View (Bottom Screenshot):

- Project:** SEPMT21 VAPM
- View:** All sprints
- Columns:** TO DO 1, PLANNED 4, IN PROGRESS 1, DONE
- Tasks:** SCRUM-2, SCRUM-5, SCRUM-4, SCRUM-6, SCRUM-7, SCRUM-3

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The image shows two screenshots of the Jira interface. The top screenshot displays the 'Backlog' section for a project named 'SEPM21 VAPM'. A modal window titled 'Complete SCRUM Sprint 1' is open, showing that the sprint contains 0 completed issues and 1 open issue. The bottom screenshot shows the 'All sprints' board for the same project. The board has four columns: 'TO DO', 'PLANNED 4', 'IN PROGRESS 1', and 'DONE'. The 'TO DO' column contains tasks like '5 - Debug Code' and '4 - Do coding'. The 'PLANNED 4' column contains tasks like '6 - Make report' and '7 - Submit report'. The 'IN PROGRESS 1' column contains tasks like '3 - Sent Email'. A message box at the bottom left of the board says 'Marked "SCRUM-2" as Done'.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The screenshot shows the Jira interface for the project 'SEPMT21 VAPM'. A modal dialog box titled 'Add people to SEPMT21 VAPM' is open. In the 'Names or emails*' input field, three email addresses are listed: 'meetstudynotebook@gmail.com', 'potivaishnavi21@gmail.com', and 'prasadsatpute244@gmail.com'. Below this, there is a 'Role' dropdown set to 'Member'. At the bottom right of the dialog is a blue button labeled 'Add 3 people'.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The screenshot shows the Jira interface for a project titled "SEPMT21 VAPM". A modal window is open in the center, titled "Added people to project". It displays a message stating "You have added 3 people to your project and 3 new licenses have been added to Jira." Below this, three user profiles are listed: "meetstudynotebook@gmail.com New to Jira", "potvaiashnavi21@gmail.com New to Jira", and "prasadsatpute244@gmail.com New to Jira". At the bottom of the modal, there are "Project settings" and "OK" buttons. The background shows the "All sprints" board with columns for "TO DO", "IN PROGRESS", and "DONE". A "Sprint" dropdown menu is visible at the top right of the board area.

The screenshot shows the Jira interface for the same project, displaying a Scrum board. The board has four columns: "TO DO", "PLANNED 4", "IN PROGRESS 1", and "DONE". In the "TO DO" column, there are two items: "4 - Do coding" and "6 - Make report". In the "PLANNED 4" column, there are three items: "SCRUM-5" (assigned to "MS"), "SCRUM-4" (assigned to "MS"), and "SCRUM-6" (assigned to "PS"). In the "IN PROGRESS 1" column, there is one item: "SCRUM-3" (assigned to "VP"). In the "DONE" column, there is one item: "SCRUM-7" (assigned to "AP"). At the top of the board, there are several user icons labeled AP, MS, VP, PS, and others. The bottom of the screen shows a taskbar with various application icons.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The image displays two screenshots of the JIRA Software interface. The top screenshot shows a 'Scrum board' for the project 'SEPMT21 VAPM'. It features a sidebar with navigation options like Planning, Backlog, and Board. The main area shows 'All sprints' with columns for 'Planned' (4 tasks) and 'Done' (0 tasks). A modal window titled 'Recommended for your team' lists various marketplace apps such as Atlas CRM, Easy Agile TeamRhythm, and BigPicture. The bottom screenshot shows a 'Summary' page for the same project. It includes a sidebar with 'Summary' selected. The main summary section shows metrics: 1 completed, 7 updated, 7 created, and 0 due in the last 7 days. Below this is a 'Status overview' donut chart showing 7 total issues across four categories: To Do (0), Planned (4), In Progress (2), and Done (1). The right side of the summary page displays a 'Recent activity' feed with three recent changes made by 'Adi Pro'.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The image shows two screenshots of the Jira interface for a project named "SEPMT21 VAPM".

Timeline View: This view shows the project's timeline from February 3rd to 21st. It includes a search bar, filter options for status category (3 items), epic, and clear filters. A specific task, "SCRM-1 1 - Verify EMAIL Functionality", is listed under the first sprint. The interface includes a sidebar for project navigation and a bottom navigation bar with various icons.

Sprint	Start Date	End Date	Epics
SCRUM Sprint 1	2024-02-03	2024-02-09	1
SCRUM Sprint 3, SCRUM Sprint 4	2024-02-10	2024-02-16	1

Summary View: This view provides an overview of the project's workload and progress. It includes a priority breakdown chart showing work distribution across five levels (Highest, High, Medium, Low, Lowest) with a single bar at the highest level. It also shows team workload for four assignees (Adi Pro, Meet Study, Prasad Satpute, Vaishnavi V. P...) and a distribution of work types (Task, Epic, Bug, Story, Subtask). A section on "Epic progress" explains how to track larger initiatives.

Type	Distribution
Task	83%
Epic	17%
Bug	0%
Story	0%
Subtask	0%

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The screenshot shows the Jira Software interface. On the left, a sidebar lists project navigation options like PLANNING, Summary, Timeline, Backlog, Board, Forms, Goals, and Project pages. The main area displays a summary of issues: 1 - Verify EMAIL Functionality (planned), 7 updated in the last 7 days, 7 created in the last 7 days, and 0 due in the next 7 days. A circular chart indicates 7 total issues, broken down by status: To Do (0), Planned (4), In Progress (2), and Done (1). Below this, sections for Recent activity, Priority breakdown, and Types of work are shown. A timeline at the bottom tracks the progress of various tasks across multiple columns.

Create a plan

Get an aggregated view of work spanning across multiple projects or teams to help visualize, plan and track work.

Required fields are marked with an asterisk.*

Name your plan *
SEPM DEMO

Access *
Private

Add work to your plan *
Board SCRUM board Select team...
+ Add more work

Create

SEPM DEMO

Timeline visualization showing task progress across multiple columns.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

Issue	Priority	Start date	Due date	Status	Progress (days)
SCRUM-1 1 - Verify EMAIL F...	Medium			IN PROGRESS	
SCRUM-2 2 - Verify login F...	Medium	04 Feb 2025	11 Mar 2025	DONE	
SCRUM-3 3 - Sent Email	Medium	02 Feb 2025	09 Feb 2025	IN PROGRESS	
SCRUM-5 5 - Debug Code	Medium	12 Feb 2025	26 Feb 2025	PLANNED	
SCRUM-4 4 - Do coding	Medium	12 Feb 2025	26 Feb 2025	PLANNED	
SCRUM-6 6 - Make report	Medium	19 Feb 2025	26 Feb 2025	PLANNED	
SCRUM-7 7 - Submit report	Medium	19 Feb 2025	26 Feb 2025	PLANNED	

Issue	Priority	Start date	Due date	Status	Progress (days)
SCRUM-1 1 - Verify EMAIL F...	Medium			IN PROGRESS	
SCRUM-2 2 - Verify login F...	High	04 Feb 2025	11 Mar 2025	DONE	
SCRUM-3 3 - Sent Email	Medium	02 Feb 2025	09 Feb 2025	IN PROGRESS	
SCRUM-5 5 - Debug Code	High	12 Feb 2025	26 Feb 2025	PLANNED	
SCRUM-4 4 - Do coding	Highest	12 Feb 2025	26 Feb 2025	PLANNED	
SCRUM-6 6 - Make report	Medium	19 Feb 2025	26 Feb 2025	PLANNED	
SCRUM-7 7 - Submit report	Medium	19 Feb 2025	26 Feb 2025	PLANNED	

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The screenshot shows the JIRA Timeline interface for a project named "SEPM DEMO". The left sidebar includes links for Summary, Timeline (which is selected), Calendar, Program (NEW), Teams, Releases, Dependencies, and Plan settings. The main area displays a "Timeline" view with a table of issues. A context menu is open over the first issue, "SCRUM-1", which has the ID "1" and the title "1 - Verify EMAIL F...". The menu options include "IN PROGRESS", "TO DO", "PLANNED", "DONE", and "View workflow". The table columns are: Issue #, Priority, Start date, Due date, Status, and Progress (days). The issues listed are:

Issue #	Priority	Start date	Due date	Status	Progress (days)
1 SCRUM-1 1 - Verify EMAIL F...	Medium			IN PROGRESS	
2 SCRUM-2 2 - Verify login F...	High	04 Feb 2025	11 Mar 2025	TO DO	
3 SCRUM-3 3 - Sent Email	Medium	02 Feb 2025	09 Feb 2025	PLANNED	
4 SCRUM-5 5 - Debug Code	High	12 Feb 2025	26 Feb 2025	DONE	
5 SCRUM-4 4 - Do coding	Highest	12 Feb 2025	26 Feb 2025	PLANNED	
6 SCRUM-6 6 - Make report	Medium	19 Feb 2025	26 Feb 2025	PLANNED	
7 SCRUM-7 7 - Submit report	Medium	19 Feb 2025	26 Feb 2025	PLANNED	

This screenshot shows the same JIRA Timeline interface after some tasks have been completed. The status column now reflects the actual progress: "DONE" for SCRUM-3, SCRUM-5, and SCRUM-6, and "PLANNED" for SCRUM-2, SCRUM-4, and SCRUM-7. The timeline view remains identical to the first screenshot.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The image displays two screenshots of the Jira interface, illustrating the creation of a Scrum board for project management.

Timeline View:

The top screenshot shows the "Timeline" view for the "SEPM DEMO" plan. The sidebar includes options like Summary, Timeline (selected), Calendar, Program, Teams, Releases, Dependencies, and Plan settings. The main area shows a table of issues under the "Story - 6 issues" section. The table columns are: Issue, Priority, Start date, Due date, Status, and Progress (days). The issues listed are:

Issue	Priority	Start date	Due date	Status	Progress (days)
SCRUM-2 2 - Verify login F...	High	04 Feb 2025	11 Mar 2025	DONE	100%
SCRUM-3 3 - Sent Email	Medium	02 Feb 2025	09 Feb 2025	DONE	100%
SCRUM-5 5 - Debug Code	High	12 Feb 2025	26 Feb 2025	IN PROGRESS	50%
SCRUM-4 4 - Do coding	Highest	12 Feb 2025	26 Feb 2025	IN PROGRESS	50%
SCRUM-6 6 - Make report	Medium	19 Feb 2025	26 Feb 2025	PLANNED	0%
SCRUM-7 7 - Submit report	Medium	19 Feb 2025	26 Feb 2025	PLANNED	0%

Calendar View:

The bottom screenshot shows the "Calendar" view for the same plan. The sidebar includes Summary, Timeline (selected), and Calendar. The calendar grid for February 2025 shows several tasks assigned to specific dates. A legend indicates the status of tasks:

- Green: SCRUM Sprint 2 (e.g., SCRUM-2 2 - Verify login Functionality)
- Blue: SCRUM Sprint 1 (e.g., SCRUM-2 2 - Verify login Functionality)
- Yellow: SCRUM Sprint 3 (e.g., SCRUM-4 4 - Do coding, SCRUM-5 5 - Debug Code)

The tasks are distributed across the weeks of February 27 to March 3, with some tasks spanning multiple days.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The screenshot shows the Jira Calendar view for the project "SEPM DEMO". The calendar displays a timeline from February 3rd to March 2nd, 2025. The days are color-coded by sprint: light blue for SCRUM Sprint 2 (Feb 3-9), green for SCRUM Sprint 1 (Feb 10-16), orange for SCRUM Sprint 3 (Feb 17-23), and light blue for SCRUM Sprint 4 (Feb 24-26). Issues are represented as cards: "SCRUM-2 2 - Verify login Functionality" (green, Feb 10-11), "SCRUM-4 4 - Do coding" (orange, Feb 18-19), and "SCRUM-5 5 - Debug Code" (orange, Feb 19-20). A summary at the bottom indicates 2 more issues for SCRUM Sprint 3 and 4 more issues for SCRUM Sprint 4.

The screenshot shows the Jira Summary view for the project "SEPM DEMO". It displays key metrics: 1 unassigned issue, 1 highest priority issue, 0 overdue issues, and 0 blocked issues. Below this is a "Status overview" section featuring a donut chart showing the progress of issues. The chart indicates 17% Done, with the following breakdown:

Status Category	Count
Done	1 issue
In Progress	5 issues
To Do	0 issues
Total	6 issues

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The image shows two screenshots of the Jira Software interface. The top screenshot displays a Scrum board for the project 'SEPMT21 VAPM'. The board has three columns: 'Planned', 'In Progress', and 'Done'. Under 'Planned', there are two tasks: '6 - Make report' and '7 - Submit report', both assigned to 'SCRUM-6'. Under 'In Progress', there are two tasks: '5 - Debug Code' and '4 - Do coding', both assigned to 'SCRUM-5'. Under 'Done', there is one task: '3 - Sent Email', assigned to 'SCRUM-3'. The bottom screenshot shows the 'Explore apps for Jira' page in the Marketplace. It features a search bar and filters for 'Pricing', 'Trust signals', 'Categories', 'Use cases', and 'More filters'. Three apps are highlighted: 'ScriptRunner for Jira' (Bestseller by Adaptavist), 'Xray Test Management for Jira' (Bestseller by Xblend), and 'Timesheets by Tempo - Jira Time Tracking' (Spotlight by Tempo Software). Each app card includes its name, developer, rating, and download count.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

8) Version Creation

The screenshot shows the Jira 'Projects' page. A single project, 'SEPM-T21LAB', is listed. The sidebar on the right displays various project templates: Advanced IT service (TRY), Work requests (TRY), Scrum, and Top-level planning (PREMIUM). A 'More templates' link is also present.

The screenshot shows the Jira 'Releases' page for the 'SEPM-T21LAB' project. A modal window titled 'Create version' is open, prompting for version details. The form includes fields for 'Name*' (set to 'version 2.0'), 'Start Date' (set to '12/02/2025'), 'Release date' (set to '16/02/2025'), 'Driver' (set to 'Adi Pro'), and a 'Description' box containing the text 'This is version with better features.' A 'Save' button is visible at the bottom of the modal.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The screenshot shows the Jira interface for a project titled "SEPM-T21LAB". The left sidebar contains links for Planning (Summary, Timeline, Backlog, Board, Reports, Forms, Add view), Development (Code), and Releases (which is currently selected). The main content area is titled "Releases" and shows a table with one row:

Version	Status	Progress	Start date	Release date	Description	More
version 2.0	UNRELEASED	No issues	12 February 2025	16 February 2025	This is version with better features.	...

9) Creating Issues for new Version

The screenshot shows the Jira interface with the search bar set to "All issues". A specific issue titled "Update the database count" is selected. The issue details on the right side show it was created by "KAN-4" and has a status of "KAN-1". The issue description is "Update the database count". The activity panel at the bottom shows a comment from "PS" asking for more info. The right sidebar displays details such as reporter (Prasad Satpute), fix versions (Version 2.0), and automation status.

Software Engineering & Project Management Lab Experiment No: - 06 & 07

Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

10) GitHub connection

The screenshot shows the Atlassian Marketplace page for the "GitHub for Jira" app. The top navigation bar includes "Projects", "Filters", "Dashboards", "Teams", "Plans", "Apps" (which is selected), and a "Create" button. A search bar shows "30 days left". The main content area displays the "GitHub for Jira" app by Atlassian, which is free. It features an overall rating of 2.7/4 stars from 456 reviews, 155,211 installs, and a "Cloud Security Participant" badge. Below this, there are tabs for "Overview", "Privacy & Security", and "Support". A large call-to-action section titled "Integrate GitHub with Jira for smooth development workflow by tracking branches, PRs, commits, builds & deployments within Jira" is present. A smaller inset image shows a screenshot of a browser window titled "GitHub for Jira connection" with the sub-headline "Streamline GitHub connections". On the right side of the main page, there are links to "Connect GitHub to Jira Software" and "Seamlessly integrate GitHub with Jira for a streamlined".

☒ GitHub Repo Link:-

https://github.com/AdityaParulekar18/SEPM_Aditya-T21-72_Exp-7.git

Conclusion: Thus, we have successfully implemented Agile Methodology and Scrum using JIRA tool.