

## **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.

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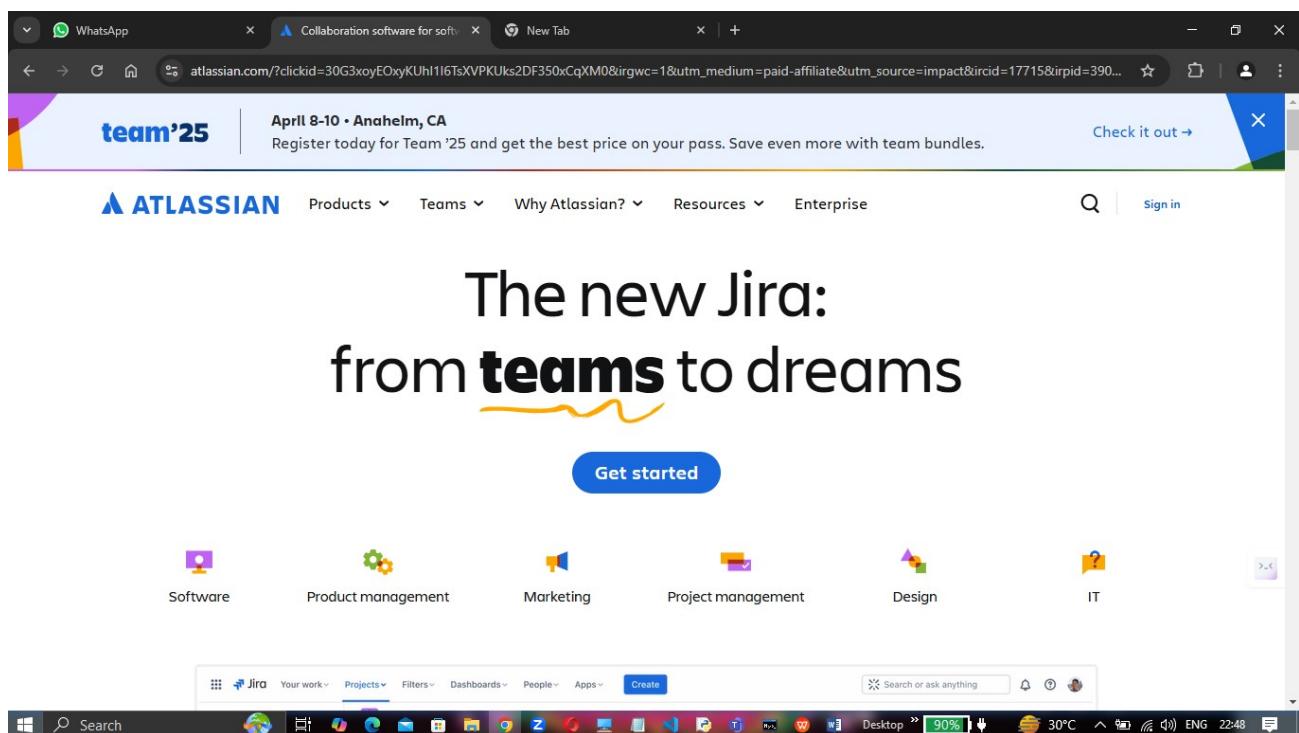
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#### ➤ Implementation:

JIRA Account Creation:

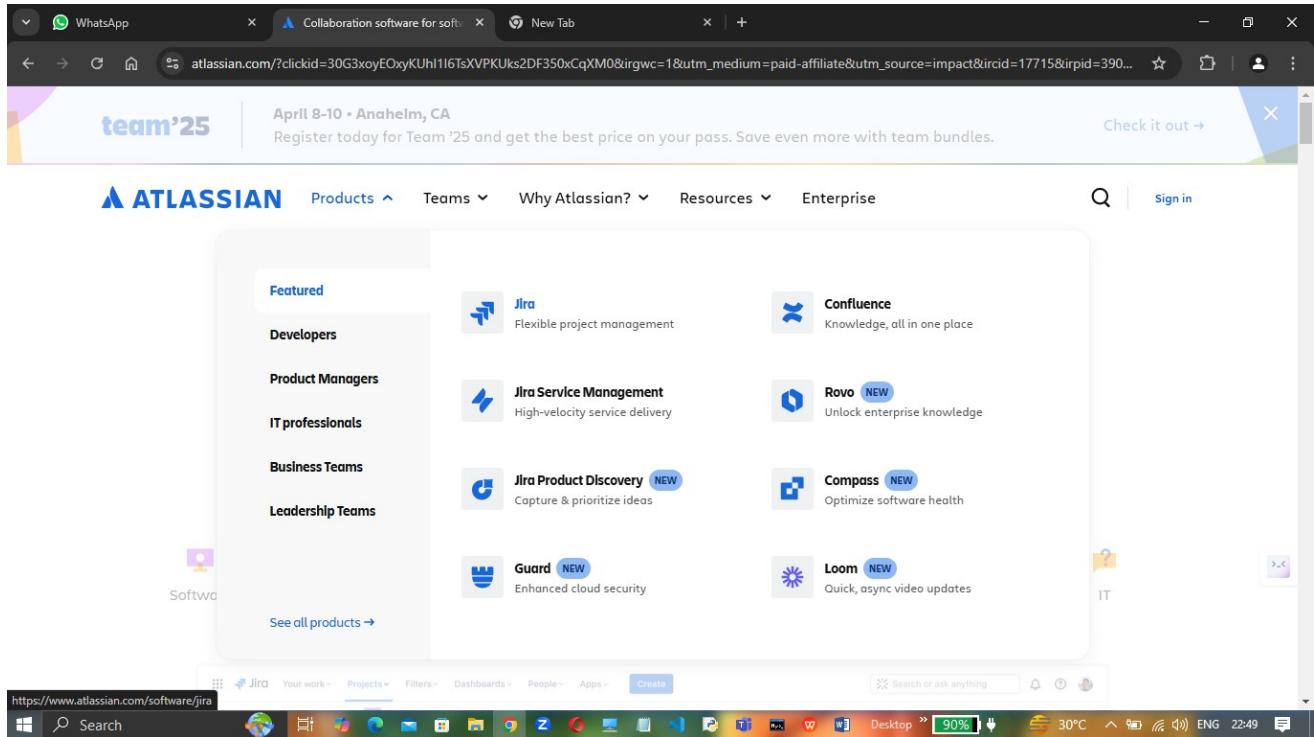
- 1) Open [atlassian.com](https://www.atlassian.com) webpage
- 2) Select products and click on Jira Software
- 3) Click on “Get it free”



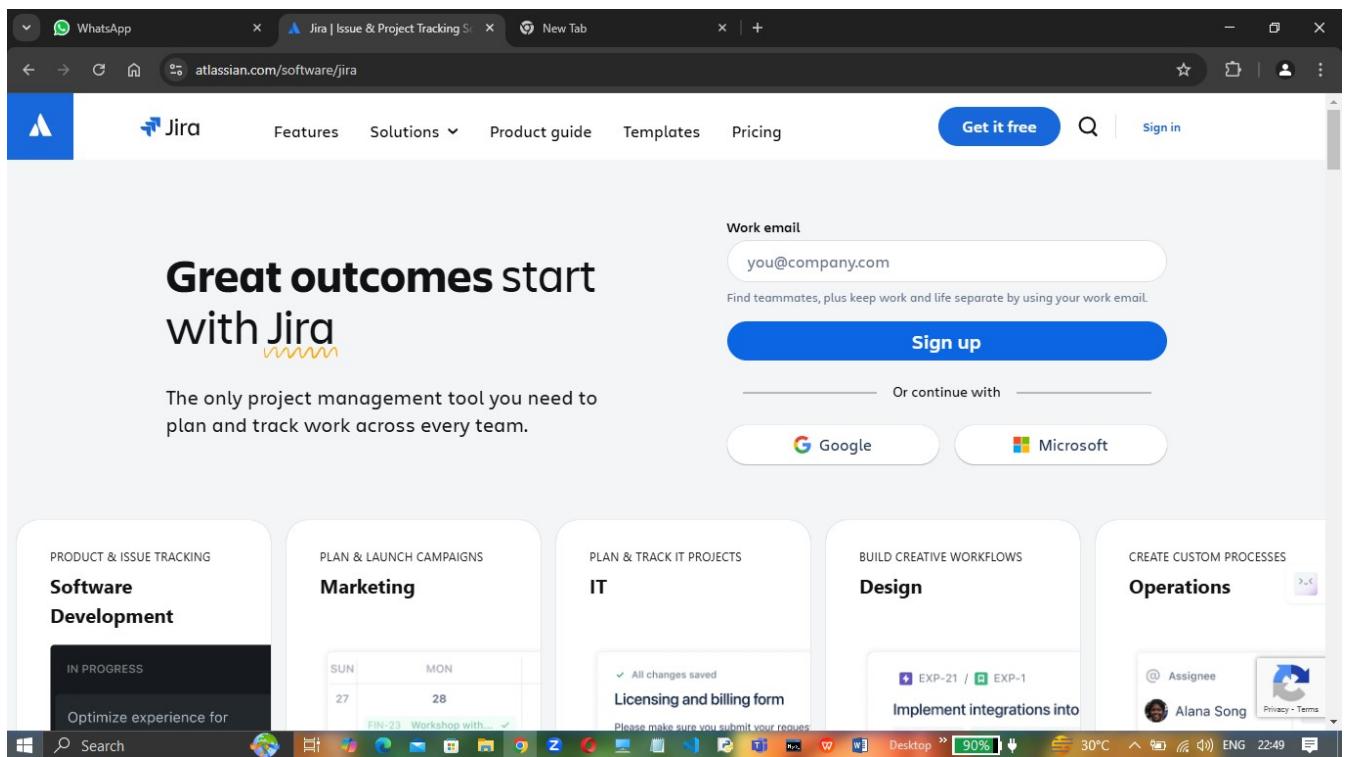
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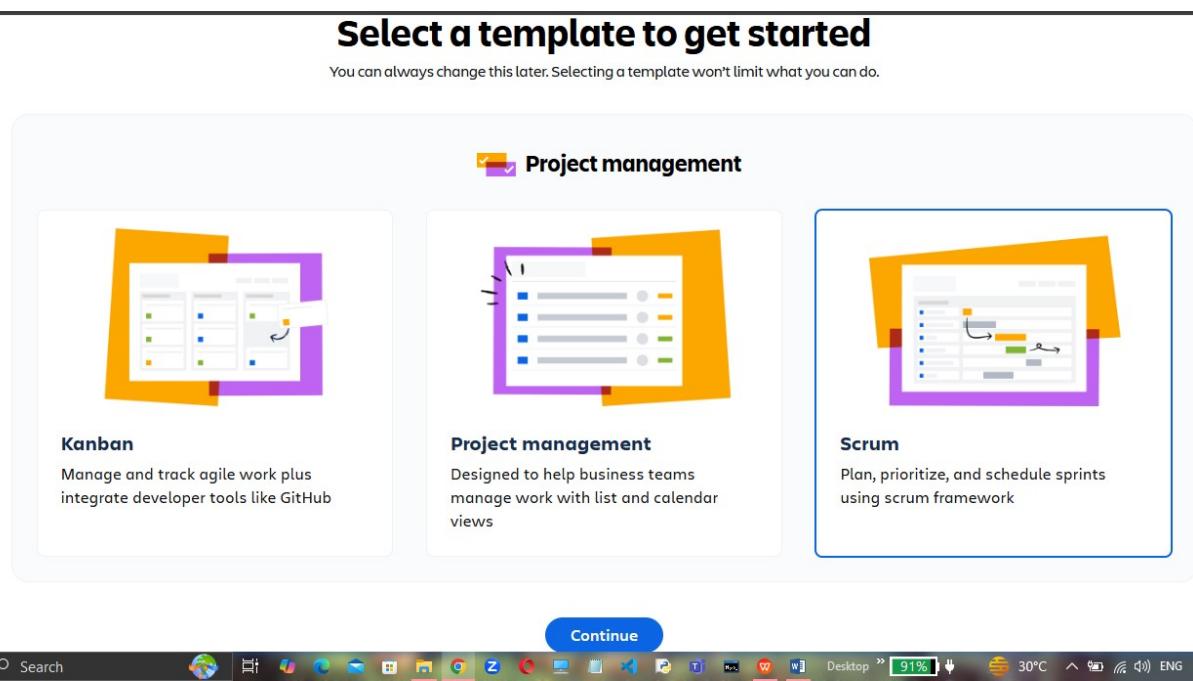
### 4) Select Continue with Google



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### 6) Add project details

The screenshot shows the JIRA project creation interface. The left sidebar lists project sections: PLANNING (Summary, Timeline, Backlog, Board, Forms), DEVELOPMENT (Code), and PROJECT PAGE (Project settings). The main area displays a 'Welcome!' message: 'Your first project is ready to kick off. It's where you'll track tasks across teams, turning big ideas into real outcomes.' It includes fields for 'Name your project' (set to 'SEPMT21 VAPM'), 'How familiar are you with Jira?\*', and a 'Get started' button. On the right, a 'Board' view for the 'SEPMT21 VAPM' project is shown, with tabs for 'Board', 'List', 'Timeline', and 'Backlog'. The board has three columns: 'To do', 'In progress', and 'Done'. A sidebar on the right shows a backlog item with an estimate of '0' and a 'Create sprint' button. The taskbar at the bottom is identical to the one in the previous screenshot.

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

The screenshot shows the JIRA SCRUM board interface for the project 'SEPMT21 VAPM'. The left sidebar includes options like Planning, Backlog, and Board (which is selected). The main area displays a three-column board: 'TO DO' (with a circular arrow icon), 'IN PROGRESS', and 'DONE'. A 'Quickstart' button is visible at the bottom right. The taskbar at the bottom shows various application icons.

The screenshot shows the JIRA Backlog interface for the same project. The left sidebar has 'Backlog' selected. The main area features a 'Create issue' button and a 'Backlog (0 issues)' section. A detailed view of a backlog item titled '1 - Verify EMAIL Functionality' is open, showing fields for Project (SEPMT21 VAPM (SCRUM)), Issue type (Epic), Status (TO DO), Summary (1 - Verify EMAIL Functionality), and Description. A 'Create sprint' button is also present. The taskbar at the bottom is identical to the previous screenshot.

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This screenshot shows the JIRA Software project summary page for 'My Scrum Project'. The left sidebar includes options like PLANNING (Summary, Timeline, Backlog, Board, Forms, Goals, Add view), DEVELOPMENT (Code, Project pages, Project settings), and a search bar. The main area displays a 'Status overview' donut chart showing 1 total issue, broken down by status: To Do (1), In Progress (0), and Done (0). It also shows recent activity with one entry from 'Adi Pro' creating a task. A 'Priority breakdown' section is partially visible below the chart.

This screenshot shows the JIRA Software project summary page for 'My Scrum Project'. The interface is identical to the first screenshot, but the 'Status overview' donut chart now shows 7 total issues. A modal window is open in the bottom-left corner, displaying two notifications: 'You've created "SCRUM-5" issue' and 'You've created "SCRUM-4" issue', each with a 'View issue' and 'Copy link' button. The rest of the page content, including recent activity and types of work, remains the same.

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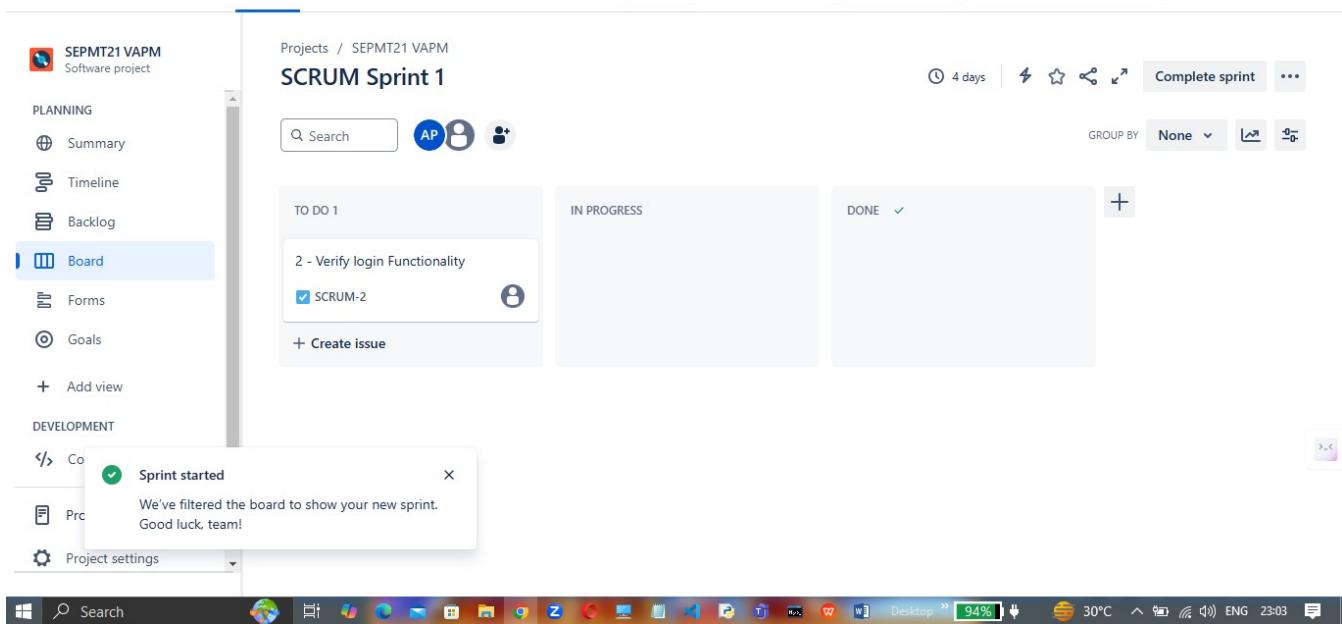
The screenshot shows the JIRA Summary page for the project 'My Scrum Project'. The left sidebar includes options like Planning (Summary, Timeline, Backlog, Board, Forms, Goals, Add view), Development (Code), Project pages, and Project settings. The main area displays a summary of recent activity: 0 completed 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. A 'Status overview' section shows a donut chart with 7 total issues: 6 To Do (pink), 1 In Progress (orange), and 0 Done (blue). A 'Recent activity' section lists three items created by 'Adi Pro' in the last minute, all labeled 'TO DO'. Below these are sections for 'Priority breakdown' and 'Types of work'.

The screenshot shows the JIRA Backlog page for the project 'SEPMT21 VAPM'. The left sidebar includes options like Planning (Summary, Timeline, Backlog, Board, Forms, Goals, Add view), Development (Code), Project pages, and Project settings. The main area shows the backlog with a search bar and filters for 'AP' and 'Epic'. It lists 'SCRUM Sprint 1' with one issue: 'SCRUM-2 - Verify login Functionality' (status: TO DO). It also shows 'SCRUM Sprint 2' (0 issues) and the 'Backlog' (5 issues). Buttons for 'Start sprint', 'Plan on whiteboard', and 'Create sprint' are visible.

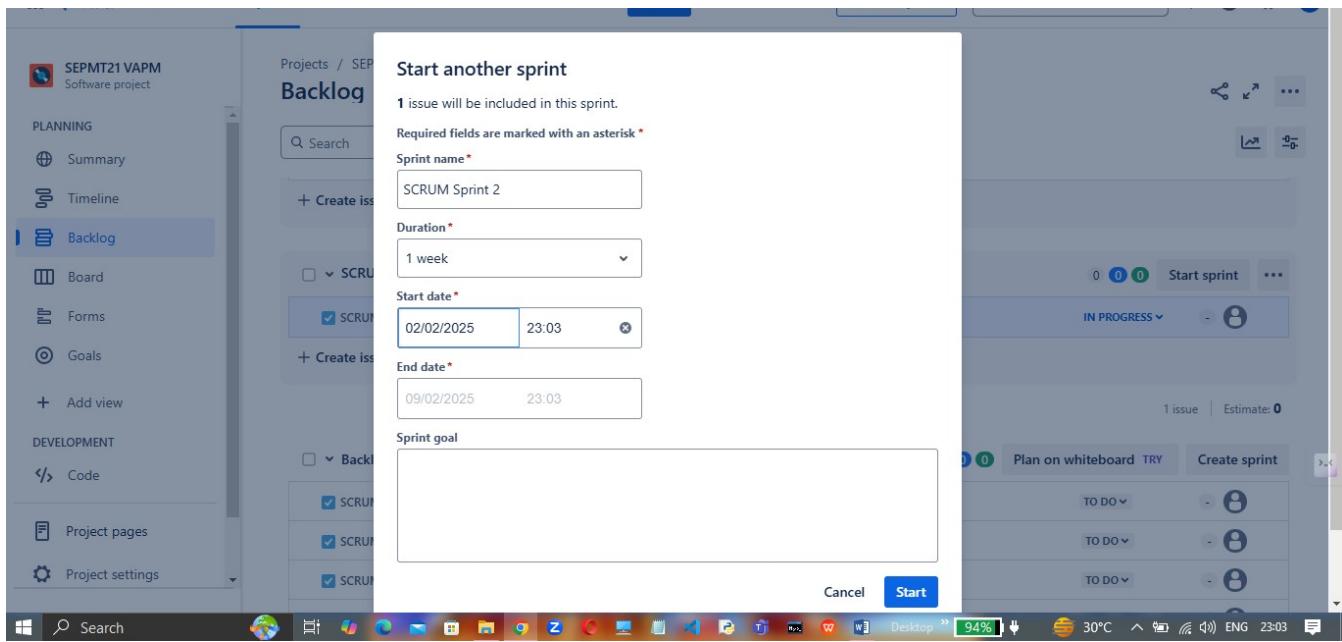
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The screenshot shows the JIRA Scrum Board interface for the project 'SEPM21 VAPM'. The sidebar on the left includes options like Planning, Backlog, and Board (which is selected). The main area displays a board with three columns: TO DO, IN PROGRESS, and DONE. Under 'TO DO', there is an issue titled '2 - Verify login Functionality' with a checkmark next to 'SCRUM-2'. A button '+ Create issue' is also present. The 'IN PROGRESS' and 'DONE' columns are currently empty. At the bottom of the board, a modal window titled 'Sprint started' appears, stating '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 (94%), temperature (30°C), and time (23:03).



The screenshot shows the JIRA Backlog interface for the project 'SEPM21 VAPM'. The sidebar on the left includes options like Planning, Backlog (which is selected), and Board. A modal window titled 'Start another sprint' is open, prompting the user to define the new sprint. The form fields include: 'Sprint name\*' set to 'SCRUM Sprint 2'; 'Duration\*' set to '1 week'; 'Start date\*' set to '02/02/2025 23:03'; and 'End date\*' set to '09/02/2025 23:03'. Below these, there is a 'Sprint goal' field which is currently empty. At the bottom right of the modal, there are 'Cancel' and 'Start' buttons. The status bar at the bottom shows system information like battery level (94%), temperature (30°C), and time (23:03).

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The screenshot shows the JIRA SCRUM Sprint 2 board. On the left sidebar, under the 'Board' section, there is a 'Sprint started' notification: 'We've filtered the board to show your new sprint. Good luck, team!'. The board has three columns: 'TO DO', 'IN PROGRESS 1 OF 1', and 'DONE'. In the 'IN PROGRESS' column, there is one task: '3 - Sent Email' with a checkmark and the label 'SCRUM-3'. The 'GROUP BY' dropdown is set to 'None'. At the top right, there are buttons for 'Complete sprint' and more options.

The screenshot shows the JIRA Backlog. The left sidebar has the 'Backlog' section selected. The backlog is organized by sprint: 'SCRUM Sprint 3' (2 issues), 'SCRUM Sprint 4' (0 issues), and 'SCRUM Sprint 5' (5 - Debug Code). The 'SCRUM Sprint 3' section contains two items: '3 - Sent Email' (IN PROGRESS) and '4 - Do coding'. The 'SCRUM Sprint 5' section contains one item: '5 - Debug Code'. A message at the bottom of the backlog says: 'Plan a sprint by dragging the sprint footer down below some issues, or by dragging issues here.' The 'GROUP BY' dropdown is set to 'Epic'.

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The screenshot shows the JIRA software interface for the project "SEPMT21 VAPM". The left sidebar includes options like PLANNING (Summary, Timeline, Backlog), DEVELOPMENT (Code, Project pages, Project settings), and a selected "Board" option. The main area displays a "All sprints" board with four columns: TO DO, PLANNED, IN PROGRESS, and DONE. Under "TO DO", there is one item: "2 - Verify login Functionality" (checkbox checked, assigned to SCRUM-2). Under "IN PROGRESS", there is one item: "3 - Sent Email" (checkbox checked, assigned to SCRUM-3). The bottom status bar shows system information: Search, taskbar icons, battery at 94%, temperature 30°C, and time 23:05.

The screenshot shows the JIRA software interface for the project "SEPMT21 VAPM" specifically for "SCRUM Sprint 3". The left sidebar is identical to the previous screen. The main area displays a "SCRUM Sprint 3" board with four columns: TO DO, PLANNED, IN PROGRESS, and DONE. Under "TO DO", there is one item: "+ Create issue". Under "PLANNED", there are two items: "5 - Debug Code" (checkbox checked, assigned to SCRUM-5) and "4 - Do coding" (checkbox checked, assigned to SCRUM-4). A modal window titled "Sprint started" is open, stating "We've filtered the board to show your new sprint. Good luck, team!". The bottom status bar shows system information: Search, taskbar icons, battery at 95%, temperature 30°C, and time 23:05.

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The screenshot shows the JIRA interface for the project 'SEPMT21 VAPM'. The left sidebar is collapsed. The main area is titled 'Backlog'. It displays a list of issues under 'SCRUM Sprint 4': 'SCRUM-4 4 - Do coding' (status: PLANNED), 'SCRUM-6 6 - Make report' (status: PLANNED), and 'SCRUM-7 7 - Submit report' (status: PLANNED). There are buttons for '+ Create issue' and 'Start sprint'. At the bottom, it says 'Your backlog is empty.'

The screenshot shows a modal dialog box titled 'Start another sprint'. It contains fields for 'Sprint name\*' (SCRUM Sprint 4), 'Duration\*' (1 week), 'Start date\*' (19/02/2025), 'End date\*' (26/02/2025), and 'Sprint goal' (empty text area). At the bottom right are 'Cancel' and 'Start' buttons. The background shows the JIRA backlog interface.

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The screenshot shows the JIRA Scrum Board interface. On the left, a sidebar menu includes options like Planning, Backlog, Board (which is selected), and Forms. The main area displays a board with four columns: TO DO, PLANNED 2 OF 4, IN PROGRESS, and DONE. Under 'TO DO', there is a button '+ Create issue'. Under 'PLANNED 2 OF 4', two tasks are listed: '6 - Make report' and '7 - Submit report', both associated with 'SCRUM-6'. A tooltip message 'Sprint started' is visible, stating 'We've filtered the board to show your new sprint. Good luck, team!'. At the top right, there are buttons for 'Complete sprint' and other settings. The status bar at the bottom shows system information like battery level (95%), temperature (30°C), and network connection.

The screenshot shows the JIRA Project Summary page. The sidebar menu includes Planning, Backlog, Board, Forms, Goals, Add view, Project pages, and Project settings. The main summary section displays 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' donut chart showing 7 total issues: 1 To Do, 4 Planned, 2 In Progress, and 0 Done. A 'Recent activity' feed shows three recent updates from 'Adi Pro': changing the status of '7 - Submit report' to 'PLANNED', changing the status of '6 - Make report' to 'PLANNED', and updating the 'Sprint' field for '7 - Submit report'. At the bottom, sections for 'Priority breakdown' and 'Types of work' are partially visible.

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The screenshot shows the JIRA Timeline view for the project 'SEPM21 VAPM'. The left sidebar includes options like Planning (Summary, Backlog, Board, Forms, Goals), Development (Code), and Project pages/Settings. The main area displays a timeline from January to March. A 'Sprints' section lists 'SCRUM-1 1 - Verify EMAIL Functionality' under 'SCRUM S...'. A 'Create Epic' button is also present. The bottom navigation bar includes Today, Weeks, Months (selected), Quarters, and a help icon.

The screenshot shows the JIRA Board view for the project 'SEPM21 VAPM'. The left sidebar includes options like Planning (Summary, Timeline, Backlog, Board), Development (Code), and Project pages/Settings. The main area displays a scrum board with four columns: TO DO 1, PLANNED 4, IN PROGRESS 1, and DONE. The 'TO DO 1' column contains '2 - Verify login Functionality' with a checkbox for 'SCRUM-2'. The 'PLANNED 4' column contains tasks '5 - Debug Code', '4 - Do coding', '6 - Make report', and '7 - Submit report', each associated with a 'SCRUM-X' checkbox. The 'IN PROGRESS 1' column contains '3 - Sent Email' with a checkbox for 'SCRUM-3'. A 'Create issue' button is located at the bottom of each column. The bottom navigation bar includes Today, Weeks, Months, Quarters, and a help icon.

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The screenshot shows the JIRA interface for the project 'SEPMT21 VAPM'. The left sidebar is open, showing options like PLANNING, Backlog (which is selected), and BOARD. The main area is titled 'Backlog' and features a large trophy icon. A modal window is open, titled 'Complete SCRUM Sprint 1', which states: 'This sprint contains: • 0 completed issues • 1 open issue'. Below this, there's a dropdown menu labeled 'Move open issues to' with the option 'New sprint' selected. At the bottom right of the modal are 'Cancel' and 'Complete sprint' buttons. In the background, other sprints are listed: 'SCRUM Sprint 3 12 Feb – 26 Feb (2 issues)' containing 'SCRUM-5 5 - Debug Code' and 'SCRUM-4 4 - Do coding'. The status bar at the bottom shows system information like battery level (95%), temperature (30°C), and time (23:06).

The screenshot shows the JIRA interface for the project 'SEPMT21 VAPM'. The left sidebar is open, showing options like PLANNING, Board (which is selected), and BOARD. The main area is titled 'All sprints' and displays a board with four columns: TO DO, PLANNED, IN PROGRESS, and DONE. A tooltip message 'Marked "SCRUM-2" as Done' is visible near the bottom left. The 'TO DO' column has a '+ Create issue' button. The 'PLANNED' column contains tasks '5 - Debug Code' (under SCRUM-5) and '4 - Do coding' (under SCRUM-4). The 'IN PROGRESS' column contains task '3 - Sent Email' (under SCRUM-3). The 'DONE' column is currently empty. The status bar at the bottom shows system information like battery level (95%), temperature (30°C), and time (23:07).

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The screenshot shows the Jira software interface. On the left, there's a sidebar with project navigation: PLANNING (Summary, Timeline, Backlog), BOARD (selected), FORMS, GOALS, and DEVELOPMENT (Code). The main area displays a board titled 'SEPMT21 VAPM All sprints'. A modal window titled 'Add people to SEPMT21 VAPM' is open, showing three email addresses entered: 'meetstudynotebook@gmail.com', 'potivaihnavi21@gmail.com', and 'prasadsatpute244@gmail.com'. Below the input field is a link to 'add more people...'. There are also buttons for 'or add from' (Google, Slack, Microsoft) and a 'Role' dropdown set to 'Member'. At the bottom of the modal are 'Cancel' and 'Add 3 people' buttons. The status bar at the bottom shows system information like battery level (96%), temperature (30°C), and time (23:11).

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The screenshot shows the JIRA interface for a project named "SEPM21 VAPM". The left sidebar includes sections for PLANNING (Summary, Timeline, Backlog), BOARD (selected), Forms, Goals, Add view, DEVELOPMENT (Code), and Project pages/Project settings. The main area displays "All sprints" with a search bar and a button to "Create issue". A modal window titled "Added people to project" is open, stating "You have added 3 people to your project and 3 new licenses have been added to Jira." It lists three users: "meetstudynotebook@gmail.com" (New to Jira), "potivashnavi21@gmail.com" (New to Jira), and "prasadsatpute244@gmail.com" (New to Jira). Buttons for "Project settings" and "OK" are at the bottom. The background shows a board with columns: TO DO, IN PROGRESS, and DONE. A task in the IN PROGRESS column is labeled "6 - Make report".

The screenshot shows the JIRA interface for the same project "SEPM21 VAPM". The left sidebar is identical to the first screenshot. The main area displays "All sprints" with a search bar and a button to "Create issue". Above the board, there are four circular icons representing team members: AP, MS, VP, and PS. A "Sprint" dropdown menu is open. The board has columns: TO DO, PLANNED 4, IN PROGRESS 1, and DONE. The "TO DO" column is empty. The "PLANNED 4" column contains tasks: "SCRUM-5" (MS), "4 - Do coding" (MS), "6 - Make report" (PS), and "7 - Submit report" (AP). The "IN PROGRESS 1" column contains "SCRUM-3" (VP). The "DONE" column is empty. A "GROUP BY" dropdown is visible at the top right.

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The screenshot shows the JIRA software interface for a project titled "SEPMT21 VAPM". On the left, there's a sidebar with navigation links for Planning, Development, and Project pages. The main area displays a Scrum board with columns for "Planned", "In Progress", and "Done". A modal window titled "All sprints" is open, showing a list of tasks: "SCRUM-5" (Planned), "SCRUM-4" (In Progress), "SCRUM-6" (Planned), and "SCRUM-7" (Planned). A dropdown menu titled "Recommended for your team" lists several apps: Atlas CRM (Project Management), Easy Agile TeamRhythm, and BigPicture (Project Management). There are also links to "Explore more apps", "Manage your apps", and "View app requests".

The screenshot shows the JIRA software interface for a project titled "My Scrum Project". The sidebar has similar navigation links. The main area features a "Summary" section with metrics: 1 completed, 7 updated, 7 created, and 0 due. Below this is a "Status overview" donut chart showing 7 total issues, categorized by status: To Do (0), Planned (4), In Progress (2), and Done (1). To the right is a "Recent activity" feed showing three recent changes made by "Adi Pro".

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The screenshot shows the JIRA Timeline view for the project "SEPMT21 VAPM". The timeline spans from February 3 to 21. Sprint 1 is labeled "SCRUM Sprint 1" and covers the period from February 4 to 9. Sprint 2 is labeled "SCRUM Sprint 3, SCRUM Sprint 4" and covers the period from February 10 to 16. A task titled "SCRUN-1 1 - Verify EMAIL Functionality" is listed under Sprint 1. The left sidebar provides navigation links for PLANNING (Summary, Timeline, Backlog, Board, Forms, Goals), DEVELOPMENT (Code), and Project pages/Settings.

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The screenshot shows the JIRA Timeline view for the 'SEPM DEMO' project. 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 table of issues:

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

The screenshot shows the JIRA Timeline view for the 'SEPM DEMO' project. 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 table of issues with varying priority levels:

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

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Plans / SEPM DEMO

### Timeline

Give feedback    Unsaved changes (4)

Summary    Filters    Basic view    Warnings    TIMELINE    LIST    View settings

Issue	+ Create issue	Fields						
#	Priority	Start date	Due date	Status	Progress (days)			
Story - 6 issues								
<input type="checkbox"/> SCRUM-2	2 - Verify login F...	High	04 Feb 2025	S	11 Mar 2025	DONE	<div style="width: 100%;"></div>	
<input type="checkbox"/> SCRUM-3	3 - Sent Email	Medium	02 Feb 2025	S	09 Feb 2025	DONE	<div style="width: 100%;"></div>	
<input type="checkbox"/> SCRUM-5	5 - Debug Code	High	12 Feb 2025	S	26 Feb 2025	IN PROGRESS	<div style="width: 100%;"></div>	
<input type="checkbox"/> SCRUM-4	4 - Do coding	Highest	12 Feb 2025	S	26 Feb 2025	IN PROGRESS	<div style="width: 100%;"></div>	
<input type="checkbox"/> SCRUM-6	6 - Make report	Medium	19 Feb 2025	S	26 Feb 2025	PLANNED	<div style="width: 100%;"></div>	
<input type="checkbox"/> SCRUM-7	7 - Submit report	Medium	19 Feb 2025	S	26 Feb 2025	PLANNED	<div style="width: 100%;"></div>	

What are plans?

Plans / SEPM DEMO

### Calendar

Give feedback    Unsaved changes (4)

Search issues    Project    Type    Status    Assignee    More +    February 2025    <    >    Today    0-5

Mon	Tue	Wed	Thu	Fri	Sat	Sun
27	28	29	30	31	Feb 1	2
3	4	5	6	7	8	9
SCRUM Sprint 2						
	SCRUM Sprint 1					
	<input checked="" type="checkbox"/> SCRUM-2 - Verify login Functionality					
10	11	12	13	14	15	16
<input checked="" type="checkbox"/> SCRUM-2 - Verify login Functionality		SCRUM Sprint 3				
		<input checked="" type="checkbox"/> SCRUM-4 4 - Do coding				MS
		<input checked="" type="checkbox"/> SCRUM-5 5 - Debug Code				MS
17	18	19	20	21	22	23
SCRUM Sprint 3						

What are plans?

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The screenshot shows the JIRA Calendar view for the project "SEPM DEMO". The calendar displays tasks across several sprints:

- SCRUM Sprint 1:** Contains the task "SCRUM-2 - Verify login Functionality".
- SCRUM Sprint 2:** Contains the task "SCRUM-2 - Verify login Functionality".
- SCRUM Sprint 3:** Contains the tasks "SCRUM-4 4 - Do coding" and "SCRUM-5 5 - Debug Code".
- SCRUM Sprint 4:** Contains the task "SCRUM-3".
- SCRUM Sprint 5:** Contains the task "SCRUM-4".

The calendar also shows various dates from 3 to 23, with some days having multiple tasks assigned. A legend indicates the status of tasks: green for completed, yellow for in progress, and orange for pending.

The screenshot shows the JIRA Summary view for the project "SEPM DEMO". It displays the following statistics:

- 1 unassigned issue
- 1 highest priority issue
- 0 overdue issues
- 0 blocked issues

Below these statistics is a "Status overview" section with a donut chart and a table:

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

The chart shows that 17% of the issues are 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.**

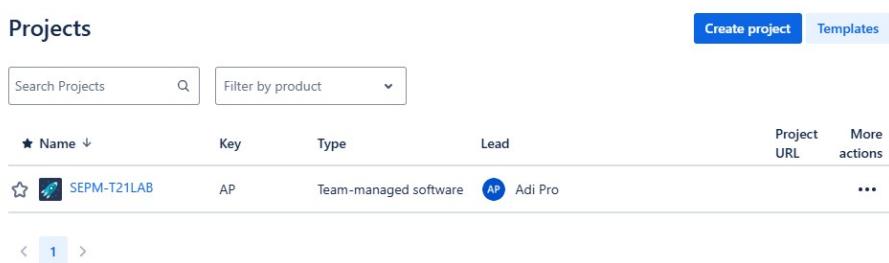
The screenshot shows the JIRA Scrum Board interface for the project "SEPMT21 VAPM". The left sidebar includes options like Planning, Backlog, Board (which is selected and highlighted in blue), Forms, Goals, Add view, Development, Code, Project pages, and Project settings. The main area displays a board with three columns: PLANNED, IN PROGRESS, and DONE. The PLANNED column contains two items: "6 - Make report" and "7 - Submit report", both assigned to "SCRUM-6" and "AP". The IN PROGRESS column contains two items: "5 - Debug Code" and "4 - Do coding", both assigned to "SCRUM-5" and "MS". The DONE column contains one item: "3 - Sent Email", assigned to "SCRUM-3" and "VP". A search bar and filter buttons for "Sprint" and "Issue" are at the top of the board area.

# Software Engineering & Project Management Lab

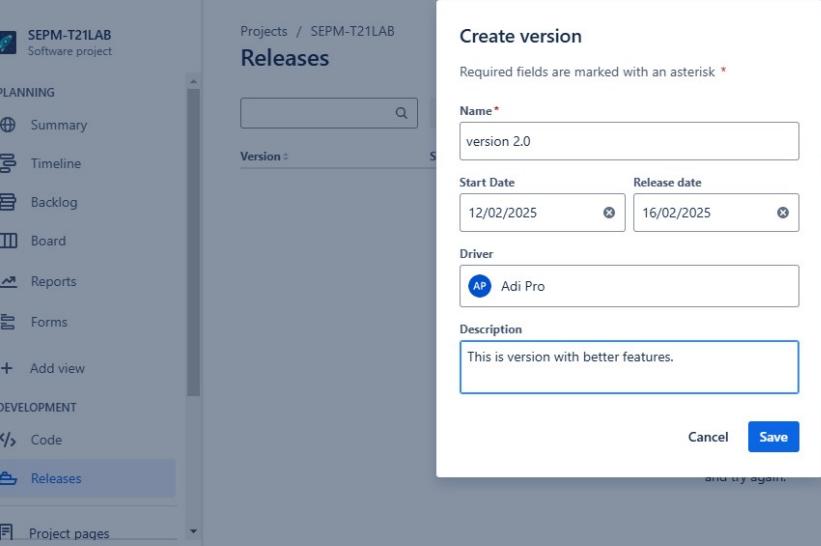
## Experiment No :- 06 & 07

**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 project details are: Name: SEPM-T21LAB, Key: AP, Type: Team-managed software, Lead: Adi Pro. There are buttons for 'Create project' and 'Templates' at the top right. A sidebar on the right lists various project templates: Advanced IT service (TRY), Work requests (TRY), Scrum, and Top-level planning (PREMIUM). A link to 'More templates' is also present.

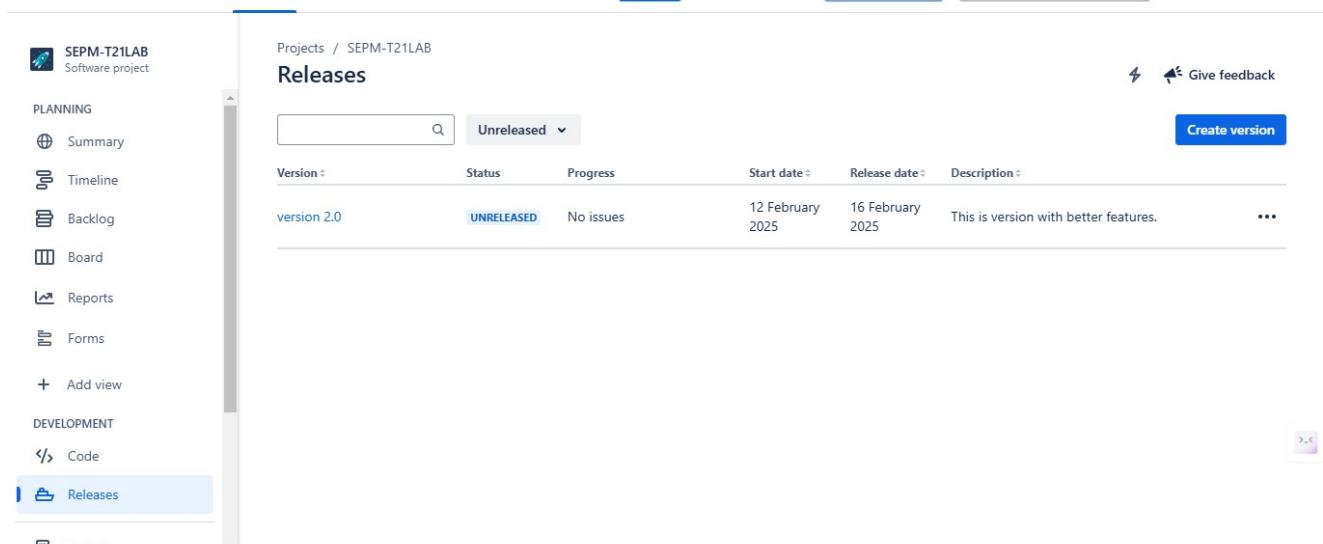


The screenshot shows the JIRA 'Releases' page for the 'SEPM-T21LAB' project. A modal dialog box titled 'Create version' is open. The form fields are: Name\* (version 2.0), Start Date (12/02/2025), Release date (16/02/2025), Driver (Adi Pro), and Description (This is version with better features.). Buttons for 'Cancel' and 'Save' are at the bottom. The background shows the 'Releases' list with one item: 'Version 1'. The left sidebar includes links for Summary, Timeline, Backlog, Reports, Forms, Add view, Code, and Project pages.

# 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.



Projects / SEPM-T21LAB

**Releases**

Version : Status Progress Start date : Release date : Description :

version 2.0 UNRELEASED No issues 12 February 2025 16 February 2025 This is version with better features. ...

Give feedback

Create version

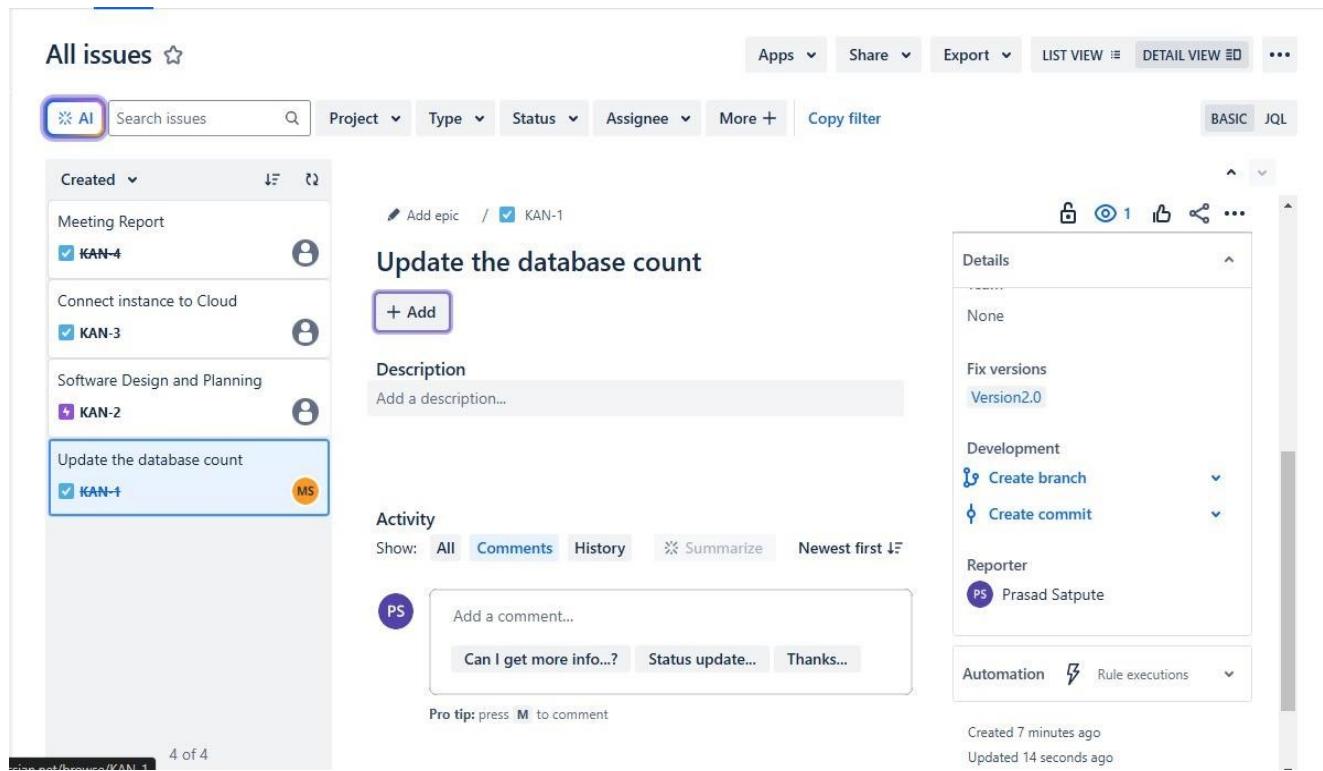
PLANNING

- Summary
- Timeline
- Backlog
- Board
- Reports
- Forms
- + Add view

DEVELOPMENT

- Code
- + Releases

### 9) Creating Issues for new Version



All issues star

Apps Share Export LIST VIEW DETAIL VIEW ...

AI Search issues Project Type Status Assignee More + Copy filter BASIC JQL

Created

- Meeting Report
- KAN-4**
- Connect instance to Cloud
- KAN-3**
- Software Design and Planning
- KAN-2**
- Update the database count
- KAN-1**

Add epic / KAN-1

**Update the database count**

+ Add

Description

Add a description...

Activity

Show: All Comments History Summarize Newest first

Add a comment... Can I get more info...? Status update... Thanks...

Pro tip: press M to comment

Details

None

Fix versions

Version 2.0

Development

Create branch

Create commit

Reporter

Prasad Satpute

Automation Rule executions

Created 7 minutes ago Updated 14 seconds ago

# 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", and a "Create" button. A "30 days left" badge is visible. The search bar contains "Search". The main content area shows the "GitHub for Jira" app by Atlassian, which is free. It has an overall rating of 2.7/4 based on 456 reviews. The app has 155,211 installs and is a Cloud Security Participant. Below the app details, there are tabs for "Overview", "Privacy & Security", and "Support". A large callout box highlights "Streamline GitHub connections" with a screenshot of the Jira interface showing GitHub integration. Text below the screenshot says "Connect GitHub to Jira Software" and "Seamlessly integrate GitHub with Jira for a streamlined workflow".

**GitHub Repo Link :- <https://github.com/shubhampandey78/SEPM-70-SHUBHAM/tree/main/EXP%2006%20%26%2007>**

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