

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.

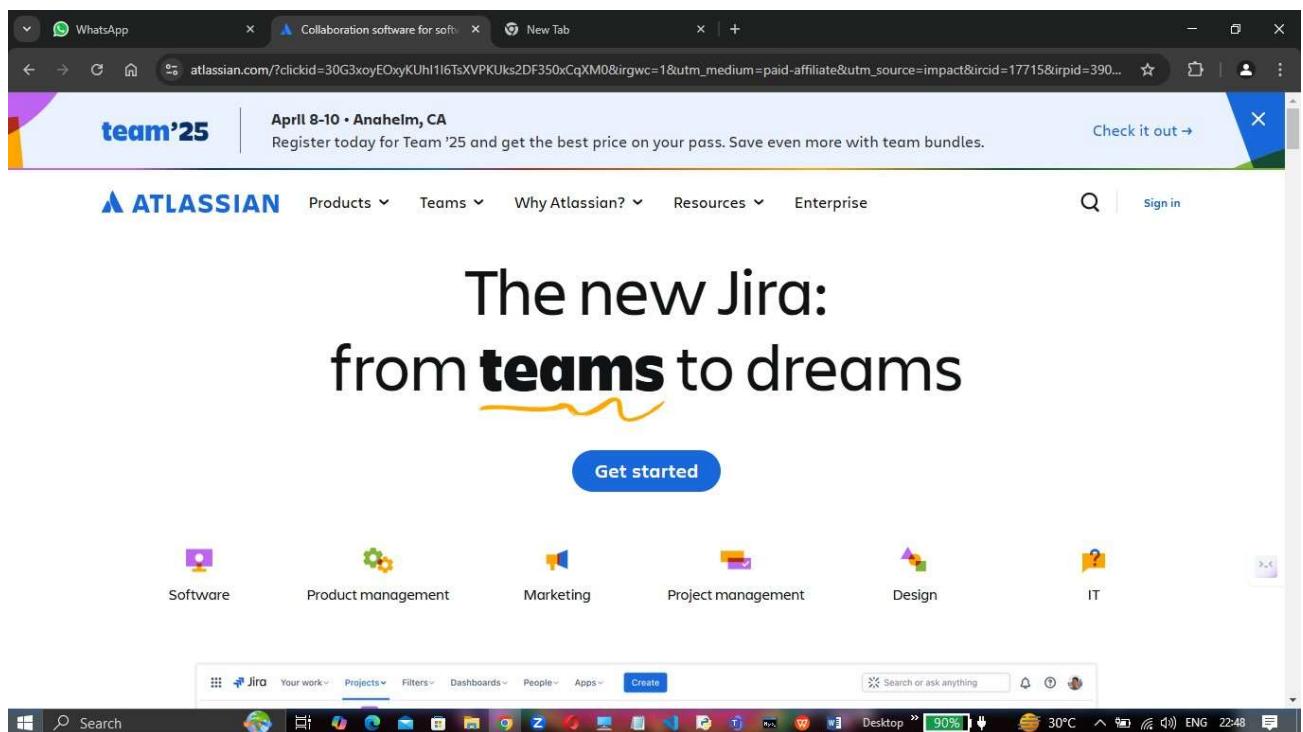
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➤ Implementation:

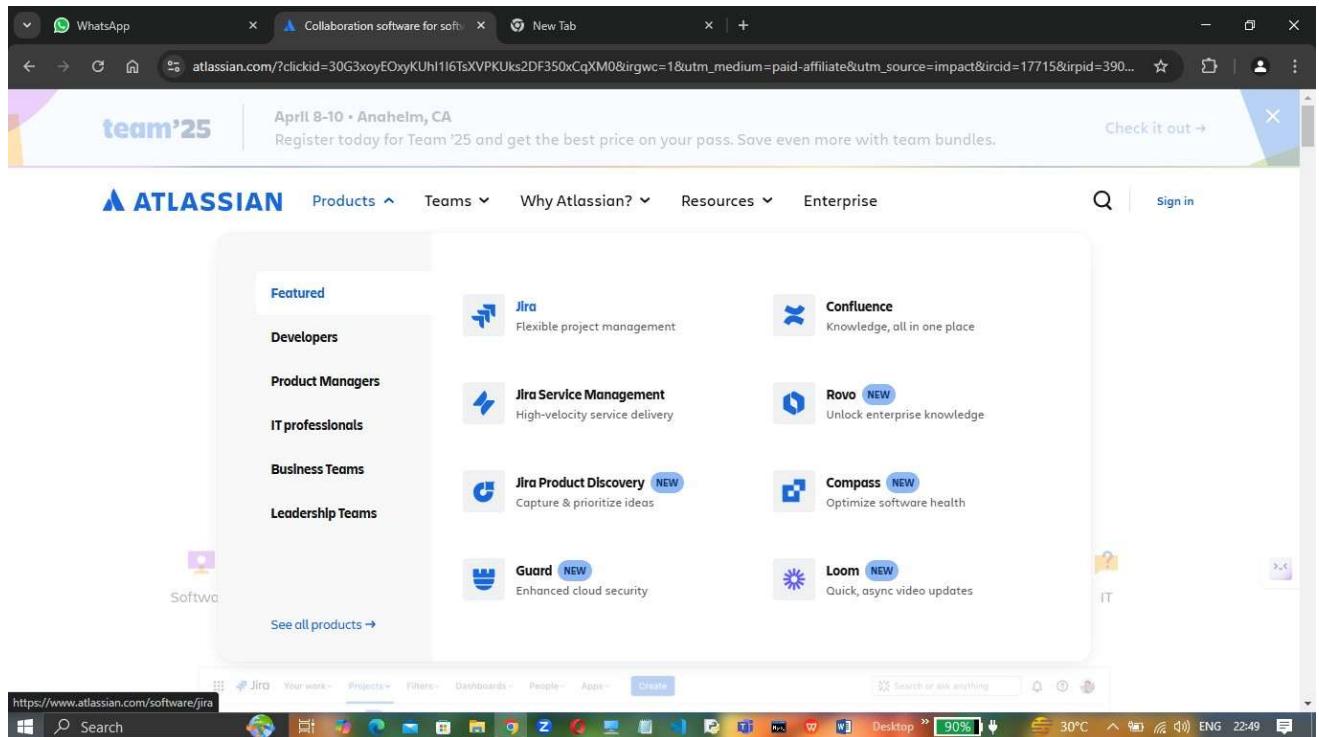
JIRA Account Creation:

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

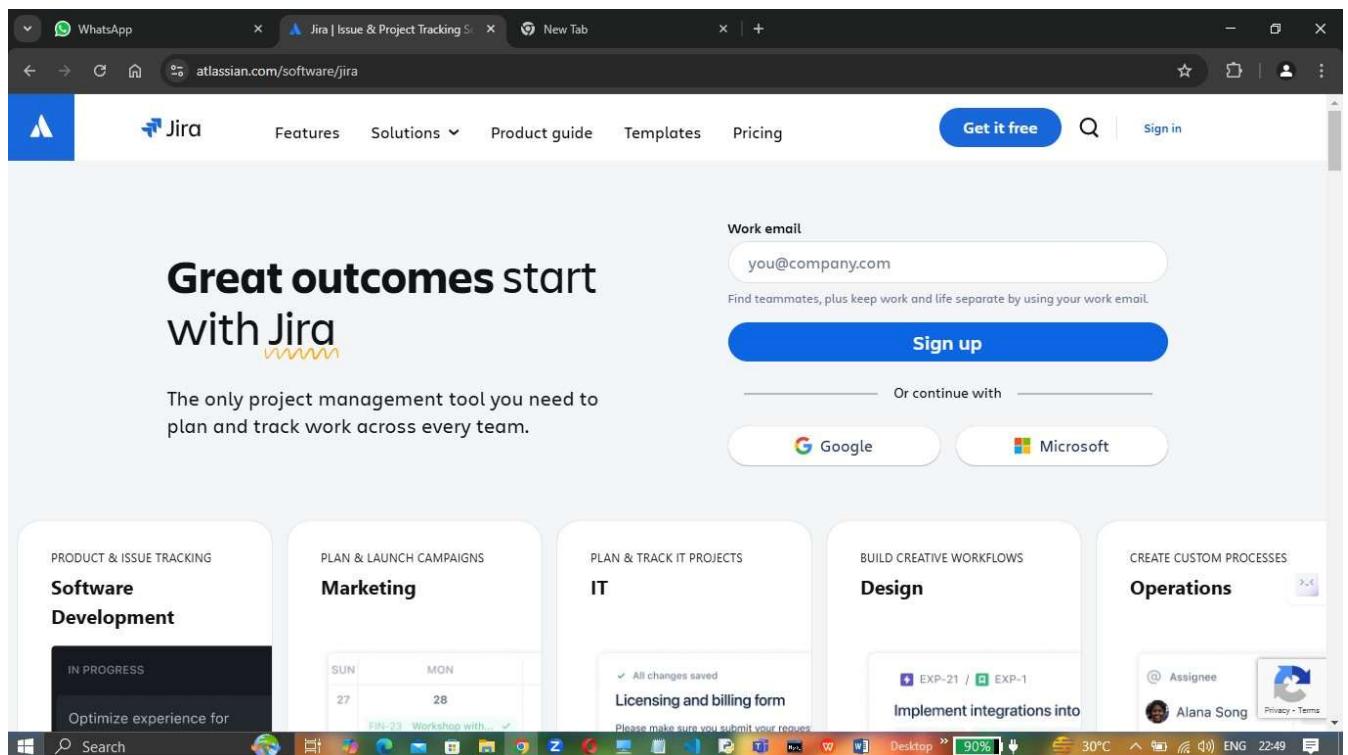


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4) Select Continue with Google



5) Give a name to your site.

3

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The screenshot shows a web browser window with the URL atlassian.com/try/cloud/signup?bundle=jira-software&edition=free&application=wac--otp-jira&social-signup-login=true. The page displays a welcome message for the user "Adi" and offers a free trial for up to 10 users. It asks for a site name, which is entered as "adityapar1845.atlassian.net". A checkbox for agreeing to the Atlassian Customer Agreement is checked. A prominent blue button at the bottom right says "Agree and start now".

Welcome back, Adi
Free for up to 10 users - no credit card required.
Your site
adityapar1845.atlassian.net ✓
I agree to the [Atlassian Customer Agreement](#), which incorporates by reference the [AI Product-Specific Terms](#), and acknowledge the [Privacy Policy](#).

Agree and start now

The screenshot shows a confirmation step with the URL atlassian.com/ondemand/signup/confirmation?ondemandurl=adityapar1845&products=jira-software.ondemand&edition=free&orchestrationId=2cab316d-be.... The main heading is "Select a template to get started" with the sub-instruction "You can always change this later. Selecting a template won't limit what you can do.". Three template options are shown in cards:

- 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.
- Scrum**: Plan, prioritize, and schedule sprints using scrum framework.

A blue "Continue" button is located at the bottom of the template selection screen.

Select a template to get started
You can always change this later. Selecting a template won't limit what you can do.

Project management

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

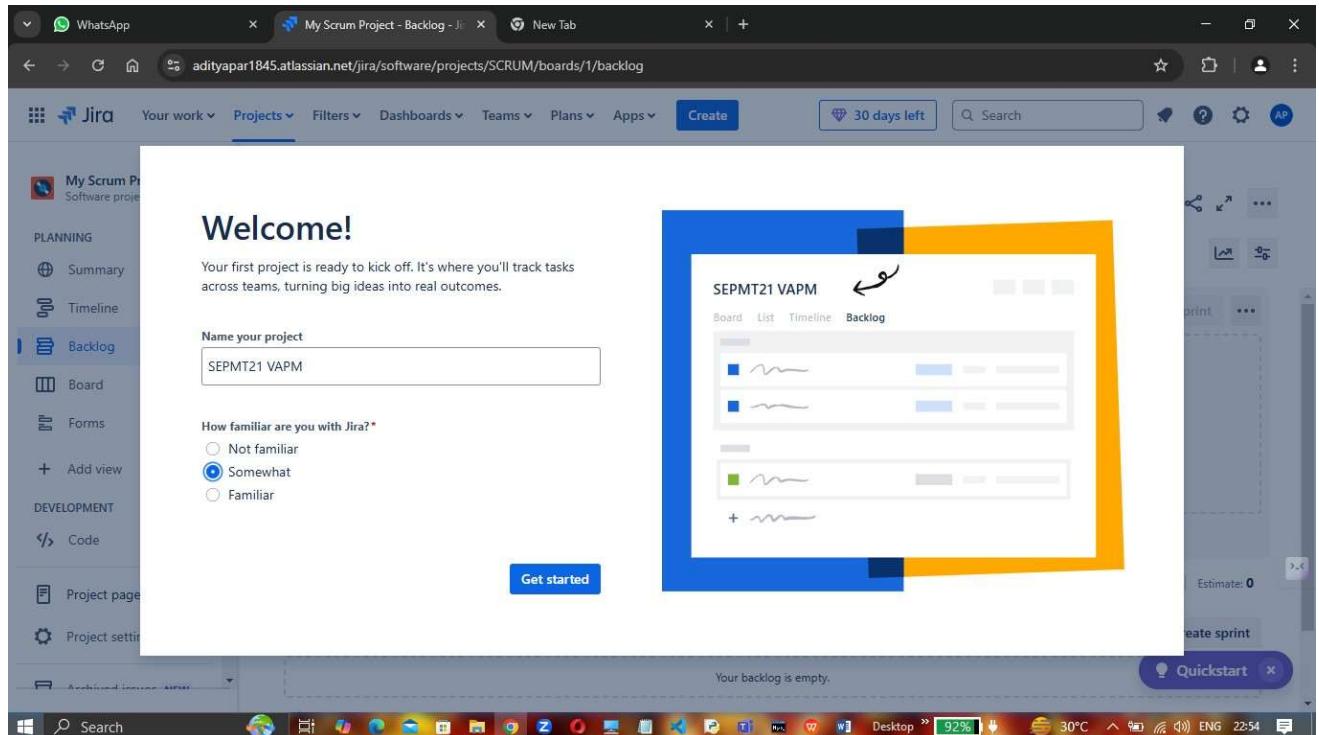
Scrum
Plan, prioritize, and schedule sprints using scrum framework

Continue

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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

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The image shows two screenshots of the Jira software interface. The top screenshot displays the 'SCRUM board' view for the project 'SEPMT21 VAPM'. It features three columns: 'TO DO', 'IN PROGRESS', and 'DONE'. A large circular icon with arrows indicates the flow from backlog to done. Below the columns, there is a section titled 'Get started in the backlog' with instructions to plan and start a sprint. The bottom screenshot shows the 'Backlog' view for the same project. On the left, a sidebar lists project management sections like Planning, Development, and Backlog. The main area shows a 'Plan your sprint' section with a map icon and a 'Create issue' button. A detailed modal window is open, showing the creation of a new issue titled '1 - Verify EMAIL Functionality'. The modal includes fields for Project (set to 'SEPMT21 VAPM (SCRUM)'), Issue type (selected as 'Epic'), Status ('TO DO'), Summary ('1 - Verify EMAIL Functionality'), and Description ('Words not enough? Type : to add emoji. 😊'). A 'Create' button is at the bottom right of the modal.

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The screenshot shows the Jira Summary page for the project "SEPM21 VAPM". The left sidebar is titled "Planning" and includes options like "Summary", "Timeline", "Backlog", "Board", "Forms", "Goals", and "Add view". The main summary section displays the following metrics:

- 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

The "Status overview" section shows a donut chart with 1 total issue, categorized as:

- To Do (1)
- In Progress (0)
- Done (0)

The "Recent activity" section shows a recent creation of an issue:

Today
AP Adi Pro created SCRUM-1: 1 - Verify EMAIL Functionality TO DO 1 minute ago

The "Priority breakdown" and "Types of work" sections are also visible.

The screenshot shows the Jira Summary page for the same project after two new issues have been created. The "Recent activity" section now lists three recent creations:

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

Two notifications are visible at the bottom left:

- You've created "SCRUM-5" issue
- You've created "SCRUM-4" issue

The "Priority breakdown" and "Types of work" sections are also present.

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The screenshot shows the Jira Software interface for a project named "My Scrum Project". The main area is titled "Summary" and displays the following information:

- Status overview:** A donut chart showing 7 total issues, broken down into:
 - To Do (6)
 - In Progress (1)
 - Done (0)
- Recent activity:** Shows three recent updates from "Adi Pro":
 - SCRUM-7: 7 - Submit report (TO DO) less than a minute ago
 - SCRUM-6: 6 - Make report (TO DO) 1 minute ago
 - SCRUM-5: 5 - Debug Code (TO DO) 1 minute ago
- Priority breakdown:** A section showing the prioritization of work.
- Types of work:** A section showing the breakdown of issues by type.

The sidebar on the left provides navigation links for Planning, Backlog, Board, and other project management tools.

The screenshot shows the Jira Software interface for the project "SEPMT21 VAPM". The main area is titled "Backlog" and displays the following information:

- SCRUM Sprint 1:** Contains one issue: "SCRUM-2 2 - Verify login Functionality" (Status: TO DO).
- SCRUM Sprint 2:** Contains one issue: "SCRUM-2 2 - Verify login Functionality" (Status: TO DO).
- Backlog:** Shows a total of 5 issues across all sprints.

The sidebar on the left provides navigation links for Planning, Backlog, Board, and other project management tools.

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The screenshot shows the Jira SCRUM Sprint 1 board for the project 'SEPMT21 VAPM'. The board has three columns: TO DO, IN PROGRESS, and DONE. Under 'TO DO', there is a task '2 - Verify login Functionality' with a checkmark next to 'SCRUM-2'. A tooltip message 'Sprint started' is displayed, stating 'We've filtered the board to show your new sprint. Good luck, team!'. The status bar at the bottom indicates '94%' battery, '30°C' temperature, and 'ENG' mode.

The screenshot shows the Jira Backlog screen for the project 'SEPMT21 VAPM'. A modal window titled 'Start another sprint' is open, prompting the user to enter details for the new sprint. The 'Sprint name' field contains 'SCRUM Sprint 2'. The 'Duration' is set to '1 week'. The 'Start date' is '02/02/2025' and the 'End date' is '09/02/2025'. The 'Sprint goal' field is empty. A 'Start' button is visible at the bottom right of the modal. The status bar at the bottom indicates '94%' battery, '30°C' temperature, and 'ENG' mode.

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The image shows two screenshots of the JIRA interface. The top screenshot displays the SCRUM Sprint 2 board. The sidebar shows 'Board' is selected. The board has three columns: 'TO DO', 'IN PROGRESS 1 OF 1', and 'DONE'. Under 'TO DO', there is a button '+ Create issue'. Under 'IN PROGRESS', there is one card: '3 - Sent Email' with a checked checkbox 'SCRUM-3'. A modal window titled 'Sprint started' says 'We've filtered the board to show your new sprint. Good luck, team!'. The bottom screenshot shows the 'Backlog' view. The sidebar shows 'Backlog' is selected. The backlog lists issues: '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 'Start sprint'.

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The image shows two screenshots of the JIRA software interface, illustrating the creation and management of a Scrum board.

Screenshot 1: All sprints (Top)

- Project:** SEPMT21 VAPM
- Sprint:** Complete sprint
- Tasks:**
 - TO DO 1: 2 - Verify login Functionality (checkbox checked, assigned to SCRUM-2)
 - PLANNED: (empty)
 - IN PROGRESS 1: 3 - Sent Email (checkbox checked, assigned to SCRUM-3)
 - DONE: (empty)

Screenshot 2: SCRUM Sprint 3 (Bottom)

- Project:** SEPMT21 VAPM
- Sprint:** 15 days
- Sprint Status:** Sprint 1 (started)
- Tasks:**
 - TO DO: + Create issue
 - PLANNED 2 OF 2:
 - 5 - Debug Code (checkbox checked, assigned to SCRUM-5)
 - 4 - Do coding (checkbox checked, assigned to SCRUM-4)
 - IN PROGRESS: (empty)
 - DONE: (empty)

A message box on the bottom board says: "We've filtered the board to show your new sprint. Good luck, team!"

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The image shows two screenshots of the Jira interface, illustrating the creation of a backlog and the start of a sprint.

Screenshot 1: Backlog View

This screenshot shows the Jira "Backlog" view for the project "SEPMT21 VAPM". The sidebar on the left is open, showing options like "PLANNING", "Backlog" (which is selected), "Board", "Forms", "Goals", and "Project settings". The main area displays a backlog of issues:

- SCRM-4 4 - Do coding (Planned)
- SCRM Sprint 4 (2 issues):
 - SCRM-6 6 - Make report (Planned)
 - SCRM-7 7 - Submit report (Planned)

At the bottom, it says "Your backlog is empty." with a "Plan on whiteboard" and "Create sprint" button.

Screenshot 2: Sprint Start Screen

This screenshot shows the "Start another sprint" dialog box. The sidebar is identical to the first screenshot. The dialog box contains the following fields:

- Sprint name***: SCRUM Sprint 4
- Duration***: 1 week
- Start date***: 19/02/2025 23:06
- End date***: 26/02/2025 23:06
- Sprint goal**: (empty text area)

At the bottom right are "Cancel" and "Start" buttons.

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The image shows two screenshots of the JIRA interface. The top screenshot displays the 'SCRUM Sprint 4 - SCRUM board' page for the project 'SEPMT21 VAPM'. It features a Kanban board with four columns: 'TO DO', 'PLANNED 2 OF 4', 'IN PROGRESS', and 'DONE'. Under 'TO DO', there is a '+ Create issue' button. In the 'PLANNED 2 OF 4' column, two issues are listed: '6 - Make report' (status: SCRM-6) and '7 - Submit report' (status: SCRM-7). A tooltip message 'We've filtered the board to show your new sprint. Good luck, team!' is visible. The bottom screenshot shows the 'Summary - My Scrum Project' page for the same project. It includes 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' donut chart showing 7 total issues, categorized by status: To Do (1), Planned (4), In Progress (2), and Done (0). The 'Recent activity' section lists three recent changes made by 'Adi Pro': changing issue statuses from 'To Do' to 'Planned' and 'In Progress', and updating the 'Sprint' field. The bottom of both screenshots shows a Windows taskbar with various icons and system status.

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

Top Screenshot: Timeline View

- Left Sidebar:** Shows project navigation with "Timeline" selected.
- Header:** "Projects / SEPMT21 VAPM Timeline".
- Search Bar:** "Search tim..."
- Filters:** "Status category" and "Epic".
- Table:** A grid showing sprints across months (JAN, FEB, MAR). Sprint 1 is labeled "SCRUM-1 1 - Verify EMAIL Functionality".
- Bottom:** Navigation buttons: Today, Weeks, Months (selected), Quarters, and a date range selector.

Bottom Screenshot: All sprints View

- Left Sidebar:** Shows project navigation with "Board" selected.
- Header:** "Projects / SEPMT21 VAPM All sprints".
- Search Bar:** "Search"
- Filters:** "Sprint" and "GROUP BY" set to "None".
- Table:** A Kanban board with four columns: "TO DO 1", "PLANNED 4", "IN PROGRESS 1", and "DONE".
 - TO DO 1:** "2 - Verify login Functionality" and "SCRUM-2".
 - PLANNED 4:** "5 - Debug Code" and "SCRUM-5"; "4 - Do coding" and "SCRUM-4"; "6 - Make report" and "SCRUM-6"; "7 - Submit report" and "SCRUM-7".
 - IN PROGRESS 1:** "3 - Sent Email" and "SCRUM-3".
 - DONE:** "+ Create issue".

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The image displays two screenshots of the Jira software interface. The top screenshot shows the 'Backlog' view for the project 'SEPM21 VAPM'. A modal window titled 'Complete SCRUM Sprint 1' is open, indicating 0 completed issues and 1 open issue. The bottom screenshot shows the 'All sprints' view, displaying four columns: 'TO DO', 'PLANNED 4', 'IN PROGRESS 1', and 'DONE'. The 'TO DO' column has a '+ Create issue' button. The 'PLANNED 4' column lists tasks 5 through 7, each associated with a checkmark and a user icon. The 'IN PROGRESS 1' column lists task 3 with a checkmark and a user icon. The 'DONE' column is currently empty. A notification bubble in the bottom-left corner says 'Nice one!' and 'Marked "SCRUM-2" as Done'.

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The screenshot shows the Jira software interface for a project titled "SEPMT21 VAPM". A modal dialog box is open, prompting the user to "Add people to SEPMT21 VAPM". The dialog includes fields for "Names or emails*" (with placeholder "e.g., Maria, maria@company.com") and "or add from" buttons for Google, Slack, and Microsoft. A purple banner in the center says "Connect and find people faster" with the subtext "Connect your Google, Microsoft, and Slack accounts to quickly find and add your teammates to this site." At the bottom right of the dialog are "OK" and "Cancel" buttons. The background shows a Scrum board with columns "TO DO", "IN PROGRESS", and "DONE". The "TO DO" column has two items: "6 - Make report" and "7 - Submit report", both with checkmarks. The "IN PROGRESS" column has one item: "SCRUM-6". The "DONE" column has one item: "SCRUM-7". The left sidebar lists project management sections like Planning, Development, and Backlog, with "Board" currently selected.

This screenshot is similar to the previous one, but the "Names or emails*" field now contains three entries: "meetstudynotebook@gmail.com", "potivaishnavi21@gmail.com", and "prasadsatpute244@gmail.com", each preceded by a small user icon. The "Role" dropdown is set to "Member". The "Add 3 people" button is visible at the bottom right of the dialog. The background Scrum board and sidebar are identical to the first screenshot.

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The screenshot shows a Jira interface for a project named 'SEPMT21 VAPM'. A modal dialog box 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), 'potvaishnavi21@gmail.com' (New to Jira), and 'prasadsatpute244@gmail.com' (New to Jira). At the bottom of the dialog, there are links to 'Manage access from the project settings.' and 'Manage Jira users in User management.', along with a 'Project settings' button and an 'OK' button.

The screenshot shows a Jira Scrum board for the same project. The board has four columns: 'TO DO', 'PLANNED 4', 'IN PROGRESS 1', and 'DONE'. In the 'TO DO' column, there is a task '6 - Make report' with a checkmark. In the 'PLANNED 4' column, there are three tasks: 'SCRUM-5' (assigned to 'MS'), '4 - Do coding' (assigned to 'MS'), and '6 - Make report' (assigned to 'PS'). In the 'IN PROGRESS 1' column, there is a task 'SCRUM-3' (assigned to 'VP'). The 'DONE' column is currently empty. At the top of the board, there are five circular icons representing team members: AP, MS, VP, PS, and another AP. The sidebar on the left includes options like 'Board', 'Forms', 'Goals', and 'Project settings'.

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The image displays two screenshots of the JIRA Software interface. The top screenshot shows a 'Scrum board' for a project named 'SEPMT21 VAPM'. The board has three columns: 'Planned', 'In Progress', and 'Done'. A tooltip is open over the 'In Progress' column, listing recommended apps like Atlas CRM, Easy Agile TeamRhythm, and BigPicture. The bottom screenshot shows a 'Summary' page for the same project, providing an overview of recent activity (1 completed, 7 updated, 7 created, 0 due) and a status overview donut chart showing 7 total issues across four categories: To Do (0), Planned (4), In Progress (2), and Done (1). The summary also includes sections for recent activity (changes made by Adi Pro) and types of work.

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

Timeline View: This view displays a timeline from February 3rd to 21st. It shows several sprints: "SCRUM Sprint 1" (FEB 4-9), "SCRUM Sprint 2" (FEB 10-16), and "SCRUM Sprint 3, SCRUM Sprint 4" (FEB 17-21). A task titled "SCRM-1 1 - Verify EMAIL Functionality" is listed under "SCRUM Sprint 1". The sidebar on the left includes options like Planning, Backlog, Board, and Timeline.

Summary View: This view provides an overview of the project's status. It includes a "Priority breakdown" chart showing work distribution across priority levels (Highest, High, Medium, Low, Lowest) with a single bar at the Medium level. It also shows a "Team workload" chart for four team members: Adi Pro, Meet Study, Prasad Satpute, and Vaishnavi V. P., each assigned 33% of the work. A "types of work" section shows the distribution of issues by type: Task (83%), Epic (17%), Bug, Story, and Subtask. An "Epic progress" section is also present.

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The screenshot shows the Jira Summary page for a project named "SEPMT21 VAPM". The left sidebar includes links for PLANNING (Summary, Timeline, Backlog, Board), DEVELOPMENT (Code), and Project pages. The main area displays a summary card with a donut chart showing 7 total issues (To Do: 0, Planned: 4, In Progress: 2, Done: 1). It also shows recent activity with three items from "Adi Pro": changing assignee to Vaishnavi V. Poti, sending an email, and changing assignee to Adi Pro. A priority breakdown and types of work sections are also present.

The screenshot shows the "Create a plan" page. It allows users to name their plan ("SEPM DEMO"), set access ("Private"), and add work to the plan ("SCRUM board"). A "Create" button is at the bottom. An inset window titled "SEPM DEMO" shows a Gantt chart with multiple tasks and team members assigned to them.

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The screenshot shows the Jira Timeline view for a project named "SEPM DEMO". The left sidebar includes options like Summary, Timeline (selected), Calendar, Program, Teams, Releases, Dependencies, and Plan settings. The main area displays a "Timeline" table with columns for Issue, Priority, Start date, Due date, Status, and Progress (days). Seven tasks are listed under a single story:

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	

The second screenshot shows the same Jira Timeline view, but the priority for task SCRUM-1 has been changed from Medium to High. The other tasks remain at Medium priority.

Issue	Priority	Start date	Due date	Status	Progress (days)
SCRUM-1 1 - Verify EMAIL F...	High			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	

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The screenshot shows the JIRA Timeline view for a project named "SEPM DEMO". The left sidebar includes options like Summary, Timeline (selected), Calendar, Program, Teams, Releases, Dependencies, and Plan settings. The main area displays a timeline grid with columns for Issue, Priority, Start date, Due date, Status, and Progress (days). A context menu is open over the first task, "SCRUM-1", which lists "IN PROGRESS", "TO DO", "PLANNED", "DONE", and "View workflow". The "Status" column for this task shows "IN PROGRESS". Other tasks listed include "SCRUM-2" (High priority, due 11 Mar 2025), "SCRUM-3" (Medium priority, due 09 Feb 2025), "SCRUM-5" (High priority, due 26 Feb 2025), "SCRUM-4" (Highest priority, due 26 Feb 2025), "SCRUM-6" (Medium priority, due 26 Feb 2025), and "SCRUM-7" (Medium priority, due 26 Feb 2025).

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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" project. 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 a "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 project. The sidebar includes Summary, Timeline (selected), Calendar, Program, Teams, Releases, Dependencies, and Plan settings. The main area shows a calendar for February 2025. Sprints are visualized as colored boxes spanning multiple days. The sprints shown are:

- SCRUM Sprint 2 (February 2-9)
- SCRUM Sprint 1 (February 10-16)
- SCRUM Sprint 3 (February 17-23)
- SCRUM Sprint 4 (February 24-30)

Issues are mapped to specific dates within these sprints, such as SCRUM-2 on Feb 10, SCRUM-4 on Feb 14, and SCRUM-5 on Feb 18.

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 and the project summary.

Top Screenshot (Calendar View):

- Left Sidebar:** Shows navigation links: Summary, Timeline, **Calendar** (selected), Program NEW, Teams, Releases, Dependencies, and Plan settings.
- Header:** Includes search, project, type, status, assignee, more filters, and a date range from February 2025 to Today.
- Content:** A calendar grid for February 2025. It highlights several sprints:
 - SCRUM Sprint 2:** Contains tasks like "SCRM-2 2 - Verify login Functionality".
 - SCRUM Sprint 3:** Contains tasks like "SCRM-4 4 - Do coding" and "SCRM-5 5 - Debug Code".
 - SCRUM Sprint 3:** Contains tasks like "SCRM-3 3" and "SCRM-4 4".
 - SCRUM Sprint 4:** Contains tasks like "4 more", "4 more", and "4 more".

Bottom Screenshot (Summary View):

- Left Sidebar:** Same as the top screenshot.
- Header:** Includes search, project, type, status, assignee, more filters, and a date range from February 2025 to Today.
- Content:** A summary dashboard with the following metrics:
 - 1 unassigned issue
 - 1 highest priority issue
 - 0 overdue issues
 - 0 blocked issues
- Status Overview:** A donut chart showing progress: 17% Done. Below it, a table details the issue status distribution:

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

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

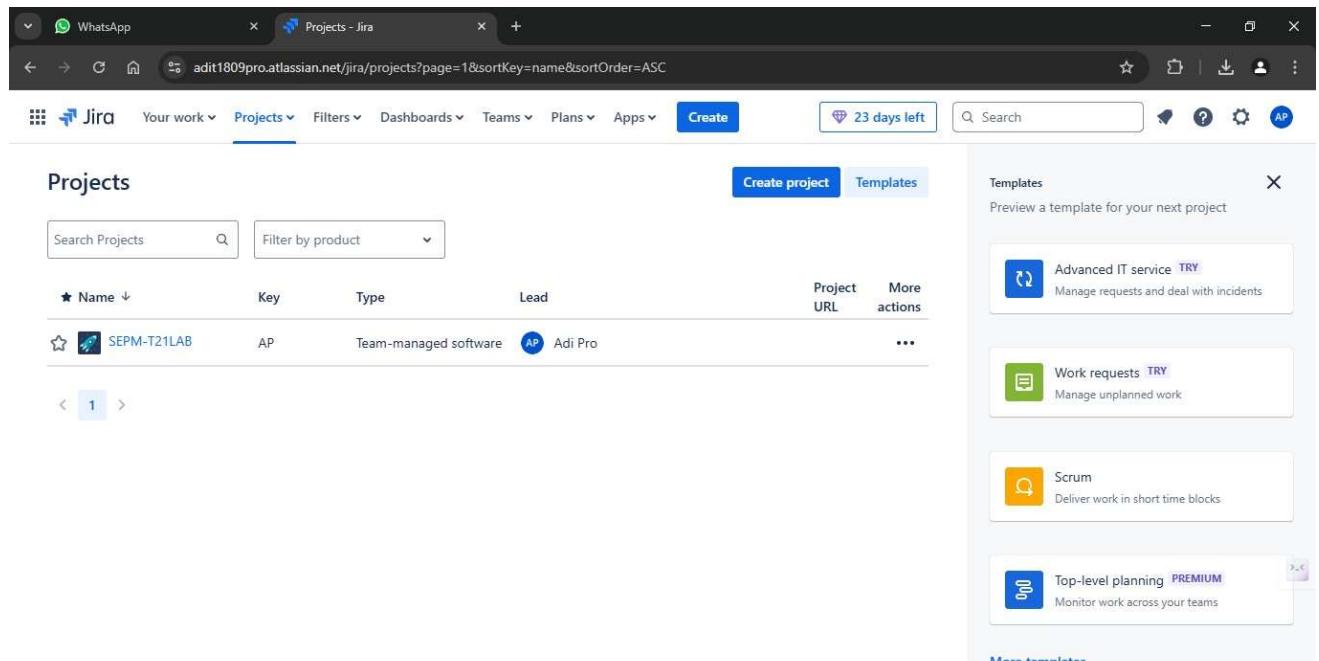
Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

The image shows two screenshots of the Jira Software interface. The top screenshot displays a Scrum board for the project 'SEPMT21 VAPM'. The board is divided into three columns: 'PLANNED 2', 'IN PROGRESS 2', and 'DONE 1'. Under 'PLANNED 2', there are two tasks: '6 - Make report' and '7 - Submit report', both associated with 'SCRUM-6'. Under 'IN PROGRESS 2', there are two tasks: '5 - Debug Code' and '4 - Do coding', both associated with 'SCRUM-5'. Under 'DONE 1', there is one task: '3 - Sent Email', associated with 'SCRUM-3'. The left sidebar shows navigation options like 'Board' (which is selected), 'Forms', 'Goals', 'Add view', 'Project pages', and 'Project settings'. The bottom screenshot shows the 'Explore apps for Jira' page in the Atlassian Marketplace. It features a search bar and filters for 'Pricing', 'Trust signals', 'Categories', 'Use cases', and 'More filters'. The results section shows three apps: 'ScriptRunner for Jira' (by Adaptavist, BESTSELLER, 3.7/4 stars, 797 reviews, 37.9k installs), 'Xray Test Management for Jira' (by Xblend, BESTSELLER, 3.5/4 stars, 482 reviews, 32.7k installs), and 'Timesheets by Tempo - Jira Time Tracking' (by Tempo Software, SPOTLIGHT, 3.3/4 stars, 808 reviews, 31.7k installs). Both screenshots are taken from a Windows desktop environment.

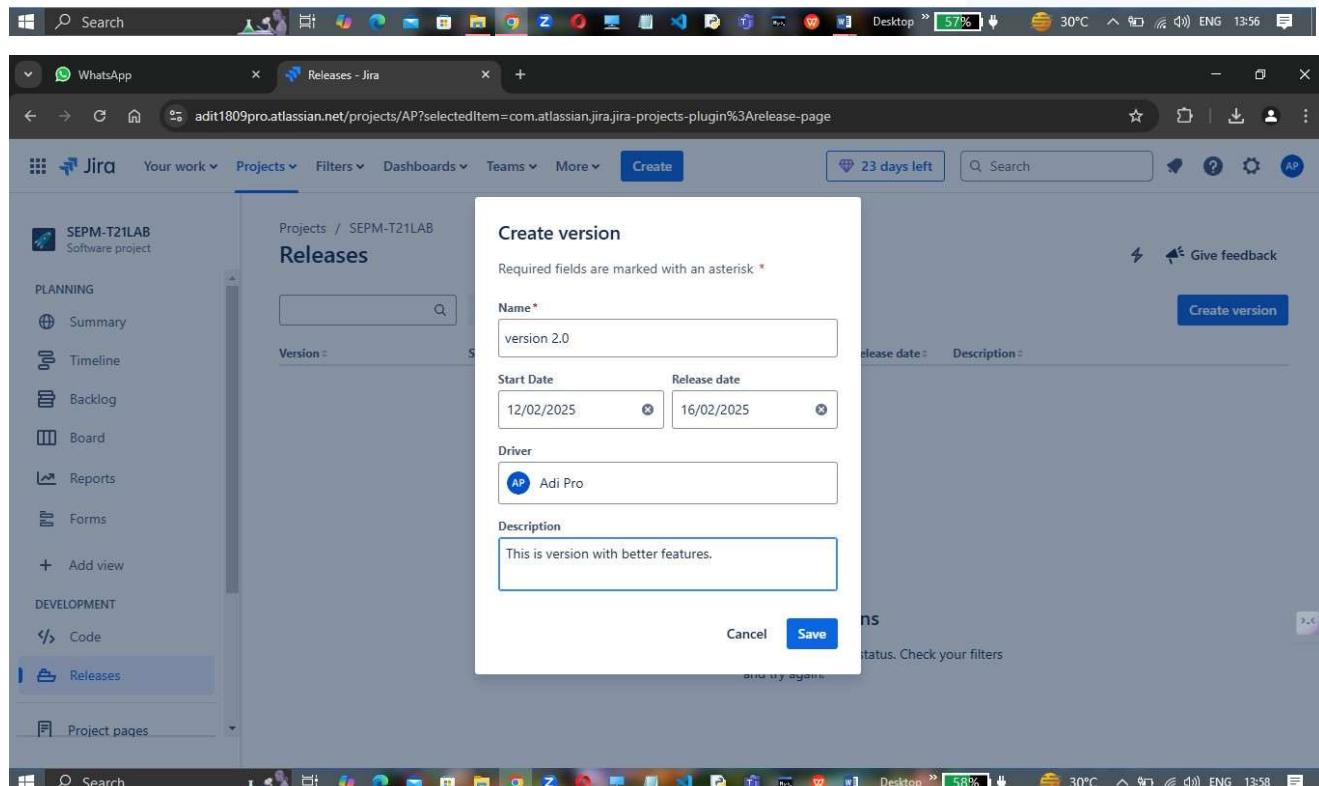
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Aim: To Study Agile Methodology and Test case Management using JIRA Tool & To Create Scrum Board for Scrum Master using JIRA Tool.

8) Version Creation



The screenshot shows the Jira Projects interface. At the top, there's a navigation bar with links like 'Your work', 'Projects', 'Filters', 'Dashboards', 'Teams', 'Plans', 'Apps', and a 'Create' button. A message '23 days left' is displayed. On the left, a sidebar titled 'Projects' shows a list of projects with columns for 'Name', 'Key', 'Type', 'Lead', 'Project URL', and 'More actions'. One project, 'SEPM-T21LAB', is listed with key 'AP', type 'Team-managed software', lead 'Adi Pro', and a 'More actions' button. Below the list are navigation arrows ('<', '1', '>'). To the right of the main content area is a sidebar titled 'Templates' with a preview for 'Advanced IT service' (TRY), 'Work requests' (TRY), 'Scrum', and 'Top-level planning' (PREMIUM). A link 'More templates' is at the bottom of this sidebar. The status bar at the bottom shows system information like battery level (57%), temperature (30°C), and time (13:56).



The screenshot shows the Jira Releases interface for the 'SEPM-T21LAB' project. The left sidebar includes 'Planning' (Summary, Timeline, Backlog, Board, Reports, Forms), 'Development' (Code, Releases, Project pages), and a 'Releases' section which is currently selected. The main area shows a 'Create version' dialog. The dialog has fields for 'Name*' (set to 'version 2.0'), 'Start Date' (12/02/2025), 'Release date' (16/02/2025), 'Driver' (Adi Pro), and a 'Description' box containing 'This is version with better features.' There are 'Cancel' and 'Save' buttons at the bottom. The status bar at the bottom shows system information like battery level (58%), temperature (30°C), and time (13:58).

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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.
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Create version

9) Creating Issues for new Version

All issues ★

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

Version2.0

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 banner at the top right indicates "30 days left". The main content area shows the "GitHub for Jira" app by Atlassian. It features a rating of 2.7/4 based on 456 reviews, 155,211 installs, and a Cloud Security Participant badge. Below this, there are tabs for "Overview", "Privacy & Security", and "Support". A large callout box highlights "Streamline GitHub connections" with a screenshot of a browser window showing the GitHub for Jira connection interface. Text below the callout reads "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_Exp6-7.git](https://github.com/AdityaParulekar18/SEPM_Aditya-T21-72_Exp6-7.git)

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