



# JIRA AGILE TOOL

Long Q Truong



# Agenda

- I. JIRA Introduction**
- II. JIRA Agile Introduction**
- III. Scrum with JIRA Agile**
- IV. Practice**
- V. Q & A**



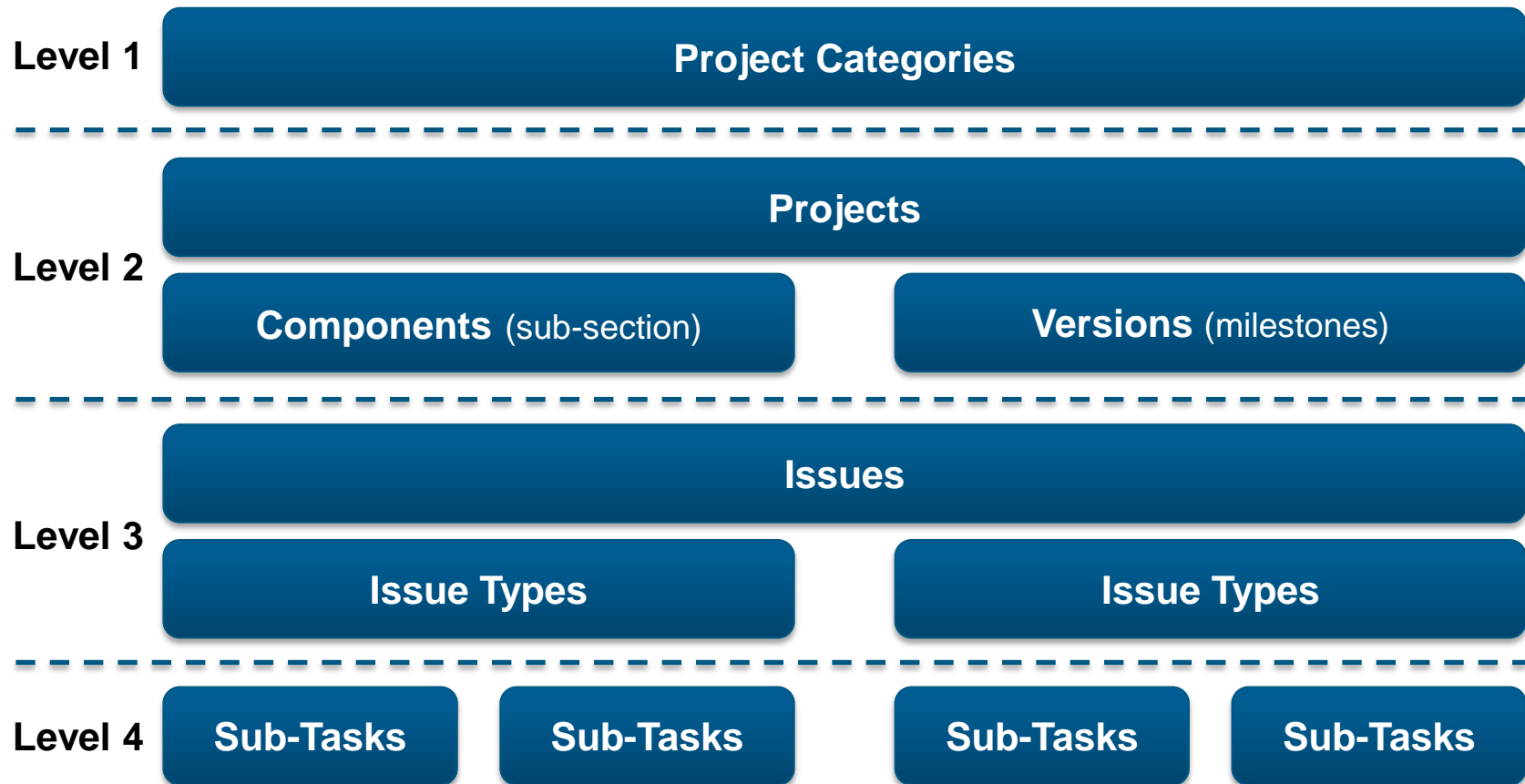


# JIRA Introduction

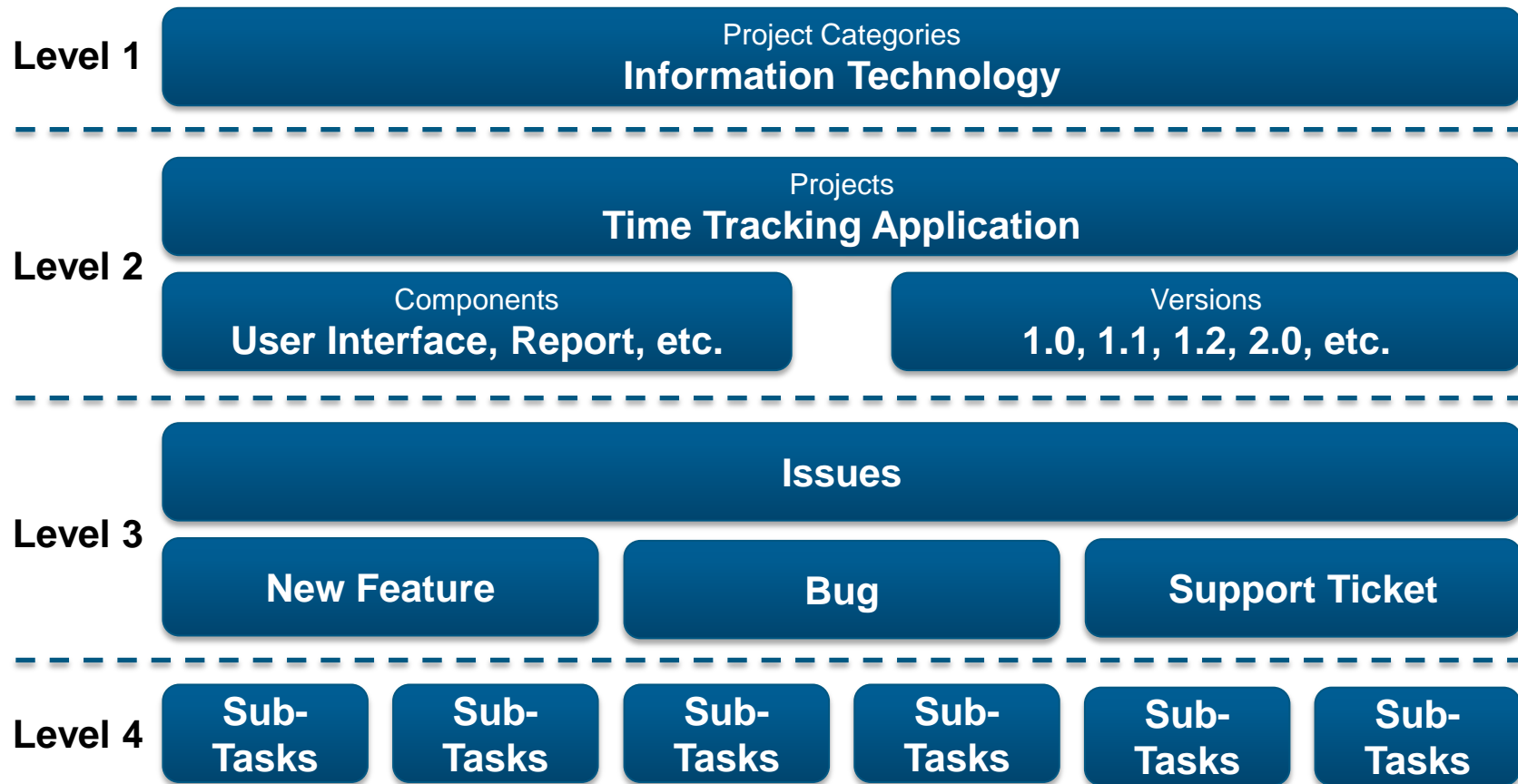
# JIRA Overview

- JIRA lets you **prioritize**, **assign**, **track**, **report**, and **audit** your '**issues**', from software bugs and helpdesk tickets to project tasks and change requests
- More than just an issue tracker, JIRA is **an extensible platform** that you can customize to match your business processes
- JIRA **improves productivity** by cutting down on time wasted on tracking issues and coordination
- JIRA **improves quality** by ensuring all tasks are recorded down with all the details and followed up till completion

# JIRA Concepts: Projects, Issues, and Sub-Tasks



# JIRA Concepts: A Software Development Example







# JIRA Agile Introduction

# JIRA Agile Overview

- An add-on of JIRA
- Agile project management for Scrum or Kanban teams
- Creates and estimates stories, builds a sprint backlog, identifies team commitment and velocity, visualizes team activity, reports on team progress
- Integrates with JIRA, Confluence and Dev Tools of Atlassian or other vendors (Bamboo, Jenkins, Git, Stash, Crucible, etc.) for a seamless developer experience
- Supports both Scrum and Kanban methods
- Available as a downloadable package and on-demand service



# Glossary

- Product Backlog
- Sprint Backlog
- Sprint
- Active Sprint
- Future Sprint
- Epic
- Story
- Task
- Burndown Chart
- Velocity

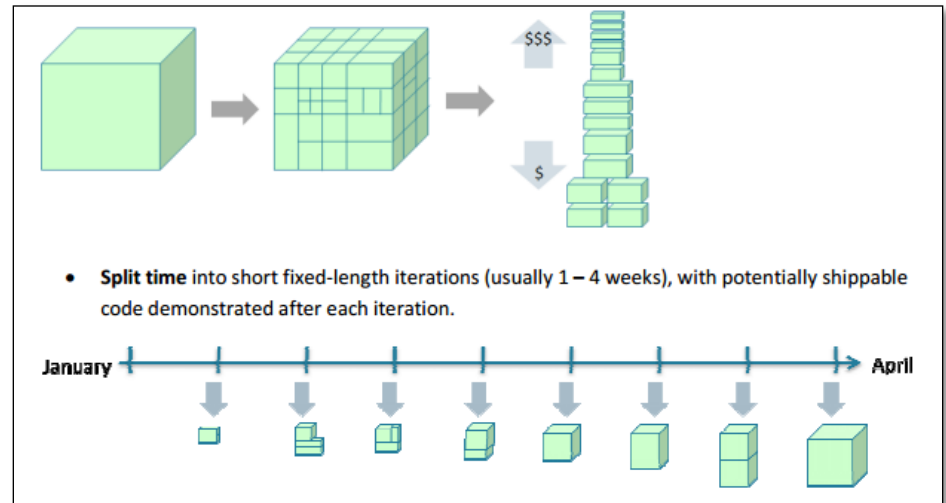
# Installation

1. Log in to JIRA as a user with the '**JIRA System Administrators**' global permission
2. Click the '**cog**' icon on the top bar (or click Administration if using an older version of JIRA) and select Add-ons
3. On the **Find new add-ons** page, type '**JIRA Agile**' in the search box.
4. The JIRA Agile add-on will appear in the list below the search box
5. Click the **Buy Now** or **Free Trial** button to start the installation process

# Scrum vs. Kanban

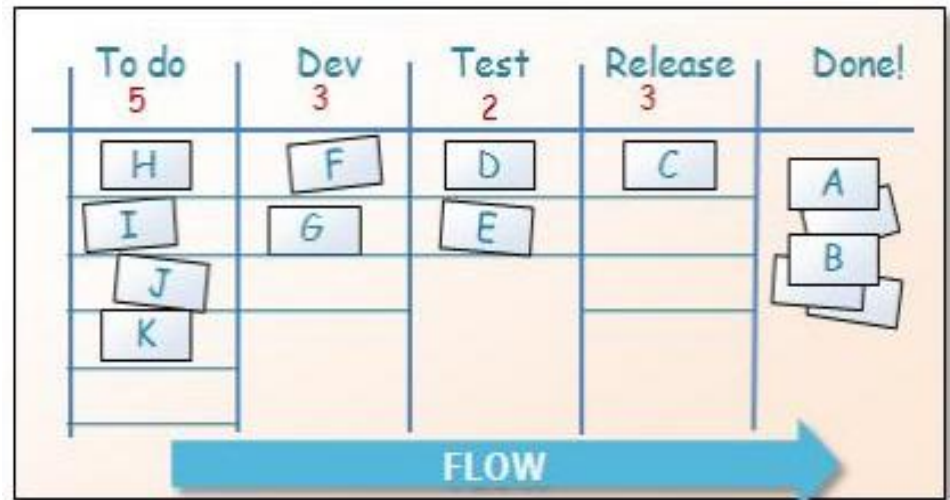
- **Scrum**

- Teams with target deadlines
- Organizes a prioritized list in batches call Sprints



- **Kanban**

- Flow based team: Support and Service teams
- Works from a prioritized list as fast as you can
- No sprint



# Sample Scrum Board

## Sample Scrum Project

PlanWorkReport⚙

🔍 QUICK FILTERS: Only My IssuesRecently Updated

Epics

VERSIONS

All issues

Version 2.0

Version 3.0

Issues without versions

Sample Sprint 26

26/Apr/13 4:22 AM • 10/May/13 4:42 AM

🔍 ⬆ SSP-10 As a developer, I can update story and task status with drag and drop (click the triangle Version 2.0 5

🔍 ⬇ SSP-13 As a developer, I can update details on an item using the Detail View >> Click the "SSP- Version 2.0

🔍 ⬆ SSP-14 As a user, I can find important items on the board by using the customisable "Quick Filters" above >> T 3

🔍 ⬆ SSP-15 As a scrum master, I can see the progress of a sprint via the Burndown Chart >> Click "Report" at the t 4

🔍 ⬆ SSP-16 As a team, we can finish the sprint by clicking the cog icon next to the sprint name above the "To Do" c 2

🔍 ⬆ SSP-17 Instructions for deleting this sample board and project are in the description for this issue >> Click the ' 0

Backlog8

Create Sprint

🔍 ⬆ SSP-1 As an Agile team, I'd like to learn about Scrum >> Click the "SSP-1" link at the left of this r Version 2.0 2

🔍 ⬆ SSP-2 As a product owner, I'd like to express work in terms of actual user problems, aka User St Version 2.0 2

🔍 ⬇ SSP-3 As a product owner, I'd like to rank stories in the backlog so I can communicate the propo Version 3.0 5

🔍 ⬆ SSP-4 As a team, I'd like to estimate the effort of a story in Story Points so we can understand th Version 3.0 5

🔍 ⬆ SSP-5 As a team, I'd like to commit to a set of stories to be completed in a sprint (or iteration) >> Click "Create 1

🔍 ⬆ SSP-6 As a scrum master, I'd like to break stories down into tasks we can track during the sprint >> Try creating 1

🔍 ⬆ SSP-8 As a product owner, I'd like to include bugs, tasks and other issue types in my backlog >> Version 2.0

🔍 ⬆ SSP-9 As a developer, I'd like to update story status during the sprint >> Click the Work link at the top right of t 3



# Sample Kanban Board

## Sample Kanban Project

PlanWorkReport⚙️

QUICK FILTERS: Only My Issues Recently Updated

Backlog4	Selected for Development1	In Progress2Max: 1	Done3Release...
<div>▼ Expedite2</div> <div><div>📌 SKP-1</div><div>🚫 Kanban cards represent work items &gt;&gt; Click the "SKP-1" link at the top of</div><div>📌 SKP-2</div><div>🚫 Kanban boards are often divided into streams of work, aka Swimlanes. By</div></div>			
<div>▼ Everything Else8</div> <div><div>📌 SKP-3</div><div>⬆️ Add work items with "+ Create Issue" at the top right of the screen &gt;&gt; Try</div><div>📌 SKP-4</div><div>⬇️ Work items are ranked in priority order (from top to bottom) &gt;&gt; Try dragging</div><div>📌 SKP-5</div><div>⬆️ Work items flow through different stages from left to right &gt;&gt; Try dragging</div></div>		<div><div>📌 SKP-6</div><div>⬆️ Work In Progress (WIP) limits highlight delays. This column's limit is 1...</div><div>📌 SKP-7</div><div>⬆️ ... so 2 work items violate the limit and cause the column to be highlighted</div></div>	<div><div>📌 SKP-8</div><div>⬆️ Filters at the top of the board allow you to quickly cut down the shown items</div><div>📌 SKP-9</div><div>⬆️ As teams develop with Kanban they get better at reducing average</div><div>📌 SKP-10</div><div>⬆️ Instructions for deleting this sample board and project are in the</div></div>

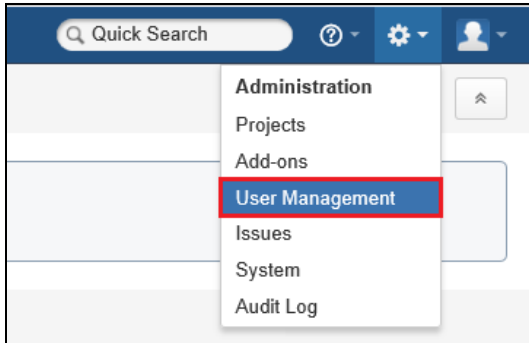
# Simplified Workflow

- Has three default steps for Scrum boards: ***To Do, In Progress, Done***
- Has four default steps for Kanban boards: ***Backlog, Selected for Development, In Progress, Done***
- Allows issues to be dragged freely between columns
- Displays no screens on any transitions – all transitions will happen instantly
- Automatically sets a resolution of 'Done' when issues are transitioned to the 'successful' column



# Scrum with JIRA Agile

# Create User



The screenshot shows the 'Create New User' dialog box in JIRA. The dialog has a title bar 'Create New User' and a message: 'There are currently 9 total user(s) set up in JIRA, of which 9 are active and count towards your license limit.' The form contains the following fields and options:

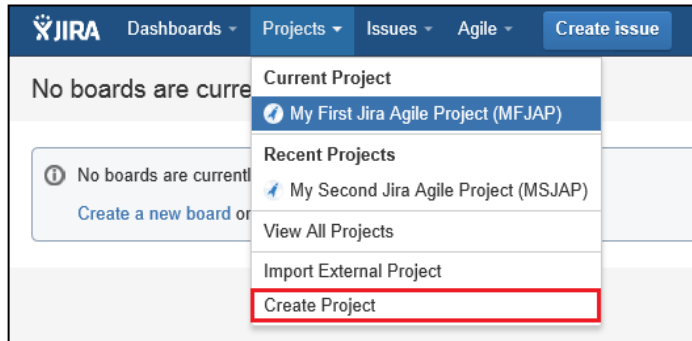
- Username:
- Password:   
If you do not enter a password, one will be generated automatically.
- Confirm:
- Full Name:
- Email:
- ☐ Send Notification Email  
Send an email to the user you have just created, which will allow them to set up their password (if applicable).

At the bottom right of the dialog are 'Create' and 'Cancel' buttons. In the background, the 'Users' page is visible, showing a table of users and a 'Filter Users' section.







Username	Full Name
dev01	Developer 01 dev01@test.com
dev02	Developer 02 dev02@test.com
dev03	Developer 03 dev03@test.com
dev04	Developer 04 dev04@test.com
dev05	Developer 05 dev05@test.com



# Create Project



## Select Project Type

 <b>Simple Issue Tracking</b> Track your issues with a basic workflow using a few issue types.	 <b>Project Management</b> Track the issues in your project from start to finish.
 <b>Agile Software Development - Scrum</b> Manage your product development with backlogs, stories, and sprints	 <b>Agile Software Development - Kanban</b> Constrain work-in-progress and manage your task flow
 <b>Software Development</b> Track development tasks and bugs. Optionally connect your source and build managers.	 <b>JIRA Default Schemes</b> Create a JIRA project using the shared JIRA default schemes.

[Import from external system](#) [Next](#) [Cancel](#)

# Create Project (cont.)

## Agile Software Development - Scrum

Manage your product development with backlogs, stories, and sprints.

Issue Types

- ☐ Bug
- ☒ Task
- ☐ Sub-task
- ☐ Story
- ☐ Epic

Back **Select** Cancel

## Agile Software Development - Scrum

Name   
Max. 80 characters.

Key  ?  
Max. 10 characters.

[Agile Software Development - Scrum](#)  
You are creating a project for a Scrum team. You may want to name this project after the product or development team that will use it.

Back **Submit** Cancel

# Create Issue

**JIRA** Dashboards ▾ Projects ▾ Issues ▾ Agile ▾ **Create** Search ? ? ? ? ?

---

Create Issue

Configure Fields ▾

Project\*

My First Scrum Project (MF... ▾

Issue Type\*

Story ▾ ?

Task

Summary\*

Bug

Epic

Priority

Medium ▾ ?

Component/s

Start typing to get a list of possible matches or press down to select.

Fix Version/s

Start typing to get a list of possible matches or press down to select.

Assignee

Automatic ▾






Assign to me

Reporter\*

Long Truong

Start typing to get a list of possible matches.

Description

Style ▾ B I U A ▾ <sup>A</sup> ▾  ▾  ▾  ▾  ▾  ▾ + ▾ ≡

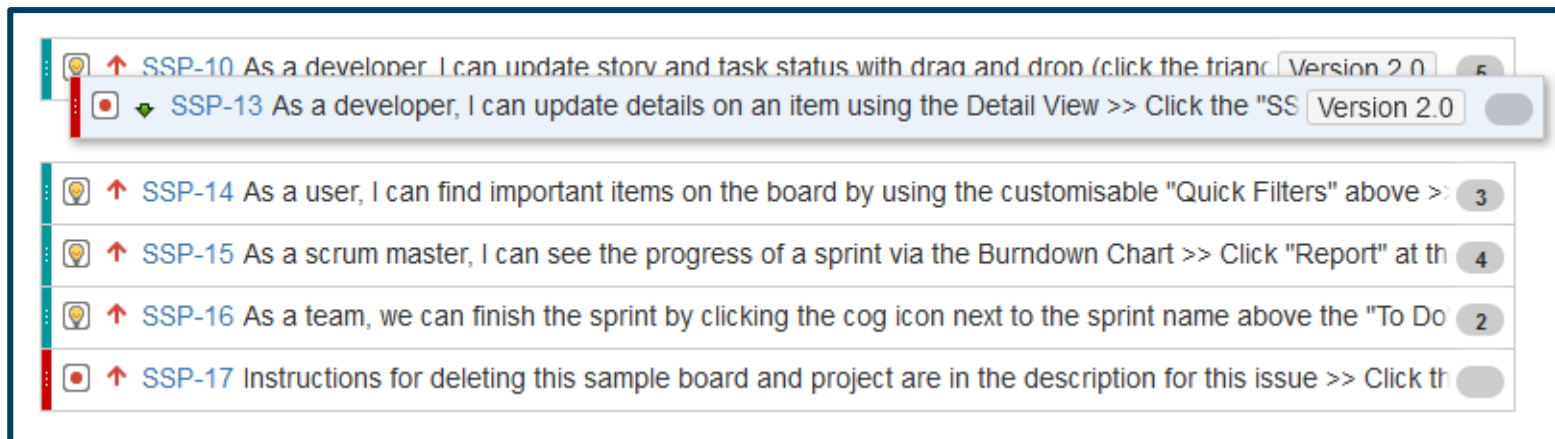
☐ Create another

Create

Cancel

# Rank (Prioritize) Issue

- Rank issues in the backlog in the order they should be implemented, starting from the top
- Drag and drop an issue to a higher or lower position within the backlog to prioritize it





# Estimate Issue

- Estimating stories in the backlog helps to predict how long portions of the backlog might take to be delivered
- To enter an Estimate for each issue, click the issue key to display the issue details at the right of the screen, then type in the Estimate field.


The screenshot displays a Scrum project interface. On the left, a sidebar shows two sprints: 'Sample Sprint 2' with 6 issues and 'Sample Sprint 3' with 3 issues. A 'Start Sprint' button is next to the second sprint. The main area shows a list of issues under 'Sample Sprint 3':

- Issue 1: SSP-1 As an Agile team, I'd like to learn about Scrum >> Click the "SSP-1" link at the left of this row to see detail in the Description tab on the right. Version 2.0, Estimate 2.
- Issue 2: SSP-3 As a product owner, I'd like to rank stories in the backlog. Version 3.0, Citrus, Estimate 5.
- Issue 3: SSP-2 As a product owner, I'd like to express work in terms of a user story. Version 2.0, Estimate 2.


At the bottom of the issue list, it shows 'Issues 3' and 'Estimate 9'. On the right, a details panel for 'Sample Scrum Project / SSP-1' is open. It contains the following information:

- Description: As an Agile team, I'd like to learn about Scrum >> Click the "SSP-1" link at the left of this row to see detail in the Description tab on the right.
- Estimate: 2 (with an edit icon).
- Details tab selected.
- Status: To Do.
- Component/s: None.









# Create Sprint

 Dashboards ▾ Projects ▾ Issues ▾ Agile ▾ **Create**

Search 🔍 ? ⚙️ 👤 ▾

 **Backlog** Board ▾ ⬆️


🔍 QUICK FILTERS: Only My Issues Recently Updated


        >>


**VERSIONS**  
All issues  
Version 1.0 ▾  
Issues without versions


**EPICS**  
All issues  
Create a Passenger Cabin ▾  
Create Two Wings ▾  
Create a Landing Gear ▾  
Create Tail ▾  
Create a Cockpit ▾  
Create Two Engines ▾  
Create Two More Engines ▾


**Sprint 1** 5 issues  
17/Aug/15 5:27 PM • 31/Aug/15 5:27 PM  

 ⬆️ **MFSP-8** As an aircraft vendor I want my passenger cabin to Create a Passenge... 3

 ⬆️ **MFSP-9** As an aircraft vendor I want my passengers to boar Create a Passenge... 2

 ⬆️ **MFSP-10** As an aircraft vendor I want my airliners to have t Create a Passenge... 5

 ⬆️ **MFSP-11** As an aircraft vendor I want my airliners to have t Create a Passenge... 3

 ⬆️ **MFSP-12** As an aircraft vendor I want to have my airline na Create a Passenge... 1

**Backlog** 0 issues Create Sprint  

There are currently no issues in the backlog

+ Create issue

# Create Sprint (cont.)

The screenshot shows the JIRA Backlog interface. The top navigation bar includes 'Dashboards', 'Projects', 'Issues', 'Agile', and a 'Create' button. The main header area shows 'Backlog' and a 'Board' dropdown. The left sidebar contains navigation icons, with the 'Backlog' icon highlighted by a red box. The main content area is divided into sections: 'VERSIONS' (All issues, Version 2.0, Version 3.0), 'Sample Sprint 2' (1 issue, Start Sprint button), and 'Backlog' (10 issues, Create Sprint button). The 'Sample Sprint 2' section is highlighted with a red box. It contains a list of issues: 'SSP-2' (As a product owner, I'd like to express work in...), 'SSP-3' (As a product owner, I'd like to rank stories in the backlog so I can communicate the proposed implementation order >> Try dragging this story up above the previous...), and 'SSP-4' (As a team, I'd like to estimate the effort of a s...). The 'SSP-3' issue is highlighted with a red box, showing its details: 'Version 3.0' and '5' points. The right sidebar shows the issue details for 'Sample Scrum Project / SSP-3', including a description, comments, attachments, and sub-tasks.

# Start Sprint

The screenshot displays the JIRA Backlog interface. At the top, the navigation bar includes 'JIRA', 'Dashboards', 'Projects', 'Issues', 'Agile', and a 'Create' button. A search bar is on the right. The main header shows 'Backlog' and a 'Board' dropdown. Below this, a search bar and 'QUICK FILTERS' (Only My Issues, Recently Updated) are present. The left sidebar contains the 'EPICS' section with a red box around the 'Start Sprint' button. The main content area shows 'Sample Sprint 2' with 4 issues. The issues are listed with their IDs, descriptions, and versions. The 'Start Sprint' button is highlighted in a red box. The right sidebar shows details for 'Sample Scrum Project / SSP-1', including a description, estimate, comments, attachments, and sub-tasks.

**JIRA** Dashboards ▾ Projects ▾ Issues ▾ Agile ▾ **Create** Search 🔍 ? ⚙️ 👤 ▾

**Backlog** Board ▾ ⬆️

🔍 QUICK FILTERS: Only My Issues Recently Updated

**EPICS**

- VERSIONS Create version | ✕
  - All issues
  - Version 2.0 ▾
  - Version 3.0 ▾
  - Issues without versions

**Sample Sprint 2** 4 issues **Start Sprint** ⋮

👤 ⋮

- 🔦 ⬆️ **SSP-10** As a developer, I can update story and task  
Version 2.0 👤 5
- 🔦 ⬆️ **SSP-13** As a developer, I can update details on an it  
Version 2.0 👤
- 🔦 ⬆️ **SSP-14** As a user, I can find important items on the t  
👤 3
- 🔦 ⬆️ **SSP-1** As an Agile team, I'd like to learn about Scrum  
Version 2.0 2

+ Create issue

4 issues Estimate 10

**Backlog** 7 issues Create Sprint

- 🔦 ⬆️ **SSP-2** As a product owner, I'd like to express work in  
Version 2.0 2
- 🔦 ⬆️ **SSP-3** As a product owner, I'd like to rank stories in t

**Sample Scrum Project / SSP-1** ⋮ ✕

As an Agile team, I'd like to learn about Scrum >> Click the "SSP-1" link at the left of this row to see detail in the Description tab on the right

Estimate: 2

**Comments**

Comment

There are no comments

**Attachments**

Attach Files

There are no attachments

**Sub-Tasks**

Create Sub-Task

There are no sub-tasks



# Complete Sprint

**JIRA** Dashboards ▾ Projects ▾ Issues ▾ Agile ▾ **Create** Search ? ⚙️ 👤 ▾

Active sprints: **Sample Sprint 2** ⌚ 4 days remaining **Complete Sprint** Board ▾ ⬆️

QUICK FILTERS: Only My Issues Recently Updated

**Complete Sprint**

**Sample Sprint 2**

3 issues were Done.  
3 incomplete issues will be returned to the top of the backlog.

Sub-tasks are not included in the total(s) above, and are always included in the same sprint as their parent issue.

**Complete** Cancel

**SSP-13**  
As a dev, I can find an item on the board by using the customisable "Quick Filters" above >> Try clicking the

**SSP-14**  
As a user, I can find important items on the board by using the customisable "Quick Filters" above >> Try clicking the

**SSP-16**  
As a team, we can finish the sprint by clicking the cog icon next to the sprint name above the "To Do" column then

**SSP-17**  
Instructions for deleting this sample board and project are in the description for this issue >> Click the "SSP-17" link

# Report



Dashboards ▾

Projects ▾

Issues ▾

Agile ▾

Create

Search

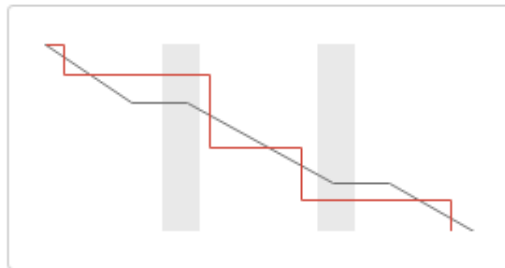


...



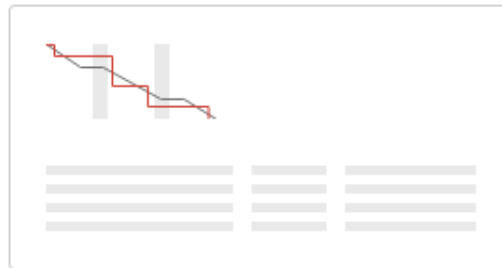
## Reports: All reports ▾

### Agile



#### Burndown Chart

Track the total work remaining and project the likelihood of achieving the sprint goal. This helps your team manage its progress and respond accordingly.



#### Sprint Report

Understand the work completed or pushed back to the backlog in each sprint. This helps you determine if your team is overcommitting or if there is excessive scope creep.



#### Velocity Chart

Track the amount of work completed from sprint to sprint. This helps you determine your team's velocity and estimate the work your team can realistically achieve in future sprints.



# Practice

# Environment

- URL: <http://cscapphcm001:8080>
- Account:
  - Username: student<1-20>
  - Password: student<1-20>
- Project: My Student Project

# Exercise

- Backlog Management
  - Create epics
  - Create user stories from an epic
  - Estimate user stories
  - Prioritize user stories
  - Create sub-tasks from a user story
  - Estimate sub-tasks
  - Assign sub-tasks to team member
- Sprint Management
  - Create sprint
  - Assign user stories to a sprint
  - Start a sprint
  - Plan for future sprint
  - Update sub-task status
- Tracking / Monitoring
  - Update user stories / sub-tasks details
  - Transit sub-tasks through its statuses
- Version Management
  - Create version
  - Assign user stories to a version
- Report
  - Complete a sprint
  - View Burndown chart
  - View Velocity report
- Others





**Q & A**





**Thank You**



BUSINESS SOLUTIONS  
TECHNOLOGY  
OUTSOURCING