

## **Practical 7**

### **INTRODUCTION TO JIRA SOFTWARE**

1. Write steps to create a project and assign access rights.
2. Which functionalities are provided by JIRA for any Project? List and explain the purpose of each.
3. How many default issues are available in JIRA? Write steps to create new issues with primary and secondary fields in detail.
4. Write steps to create a sprint and assign issues and people to tasks.
5. Explain Epic and User Story in detail with examples.

## **Introduction to SCRUM**

- Scrum wants you to fail. In fact, it's known for the slogan "fail **fast**".
- Traditionally, project managers and developers would work for months or years before seeing the results.
- Agile is a broad umbrella of many methodologies that follow the same principles. Scrum is one of them.
- Scrum took it a step further by creating a framework to help teams stay focused and protect them from distractions. Essential to Scrum are two key roles, the Product Owner and the Scrum Master.
- Scrum takes the Agile manifesto and its key principles boils them down to a very simple framework that encourages small-scale focus and rapid learning cycles.
- In Scrum Framework, the client is constantly involved during the course of development, reviewing bits and pieces created, time and over.

**Agile:** It is a set of software development practices designed to help developers work together and adapt to changes quickly and easily.

**Customer:** Whoever has engaged the team to create a product.

**Developer:** A person responsible for creating and maintaining the product.

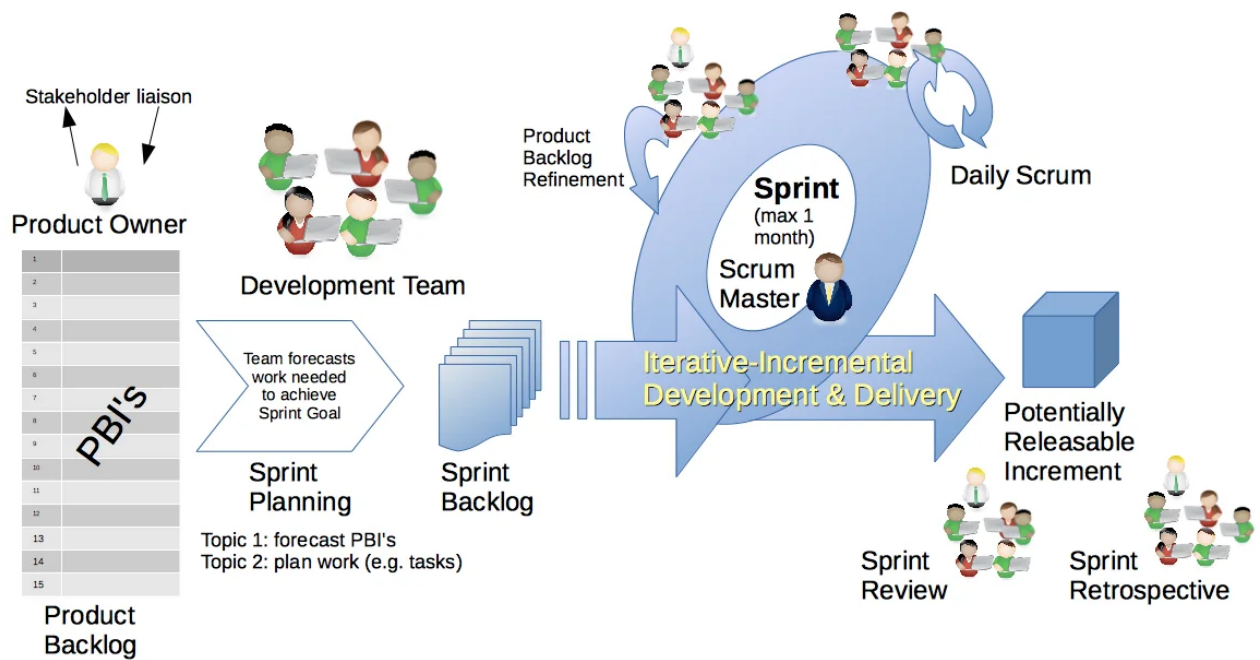
**Product Backlog:** A constantly evolving list of potential features or changes for a project.

**Product Owner:** A person who helps define the product for the team.

**Scrum Master:** A person responsible for maintaining the artifacts and overseeing the rituals of scrum.

**Sprint:** A fixed number of days during which the team can work together to produce an agreed upon set of changes to the product.

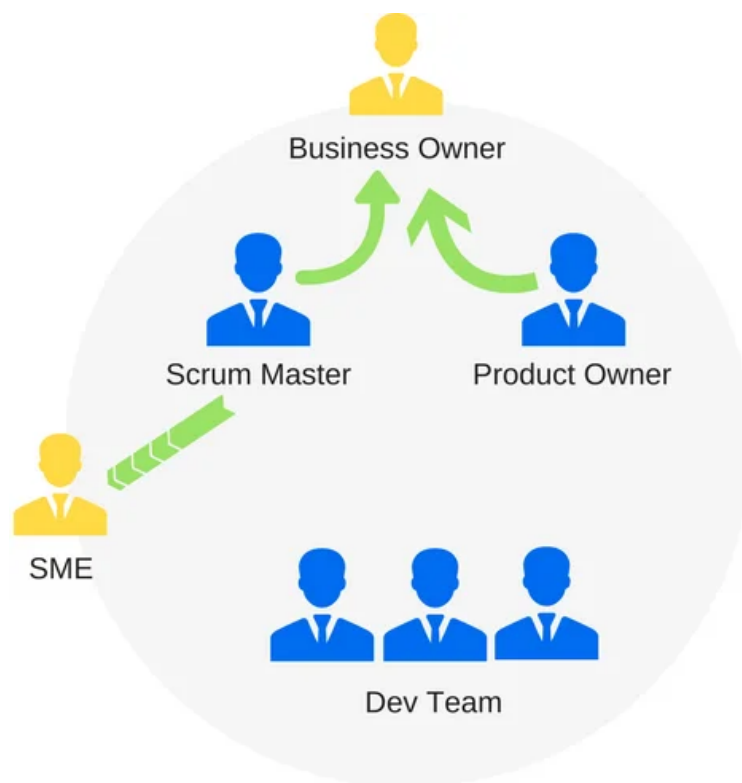
**Story:** A clear and consistent way of dividing, phrasing, and discussing work the team may need to do on the product.



- There are two main important roles that exist on every Scrum team: the Product Owner(PO) and the Scrum Master(SM).
- Product Owner(PO)
  - The PO is the business representative of the team. They're not part-time team members. They're contributing to the final product every day.
  - They review all the work the team completes and either accepts it or asks the team to make changes to ensure the highest value is being delivered.
  - On a Scrum team, the PO is always ordering the work and ensuring that the team members clearly understand the details of the request, but that's only one part of their job. They're also interacting on a daily basis with the stakeholders.
  - It's not enough for the PO to interact with the team, they must also be in tune with all the changes that are occurring in the business context.
  - As a result, the PO is the keeper of the product vision. He or she defines and manages the backlog of work to be done and the prioritization of those work items.

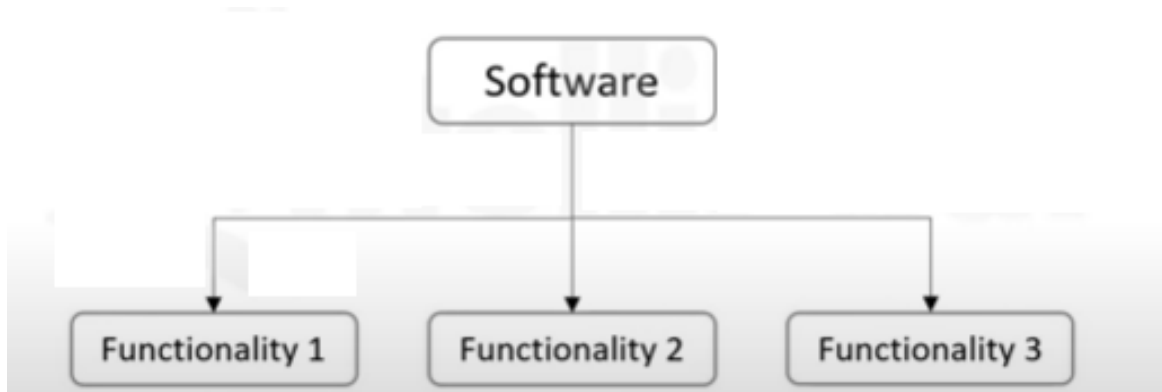
- Scrum Master

- The Scrum Master is the most visible spokesperson for the team. They'll devise charts and boards to share the team's progress with anyone who's curious or interested in knowing how they're doing.
- They're also the first escalation point when something gets in the way for the team.
- The Scrum Master will work to remove any blockers until they're out of the way and the team can continue on.
- While the Product Owner keeps eyes on what needs to be done, the Scrum Master focuses on how the team does the work.
- The Scrum Master also holds the team accountable for their commitments to the Product Owner.
- They show trends in team performance over time to help the team improve their processes and practices.



## Introduction to JIRA

- JIRA is a software testing tool developed by the Australian Company Atlassian.
- It is a bug tracking tool that reports all the issues related to your software or mobile apps.
- The word JIRA comes from the Japanese word, i.e., "Gojira" which means Godzilla.



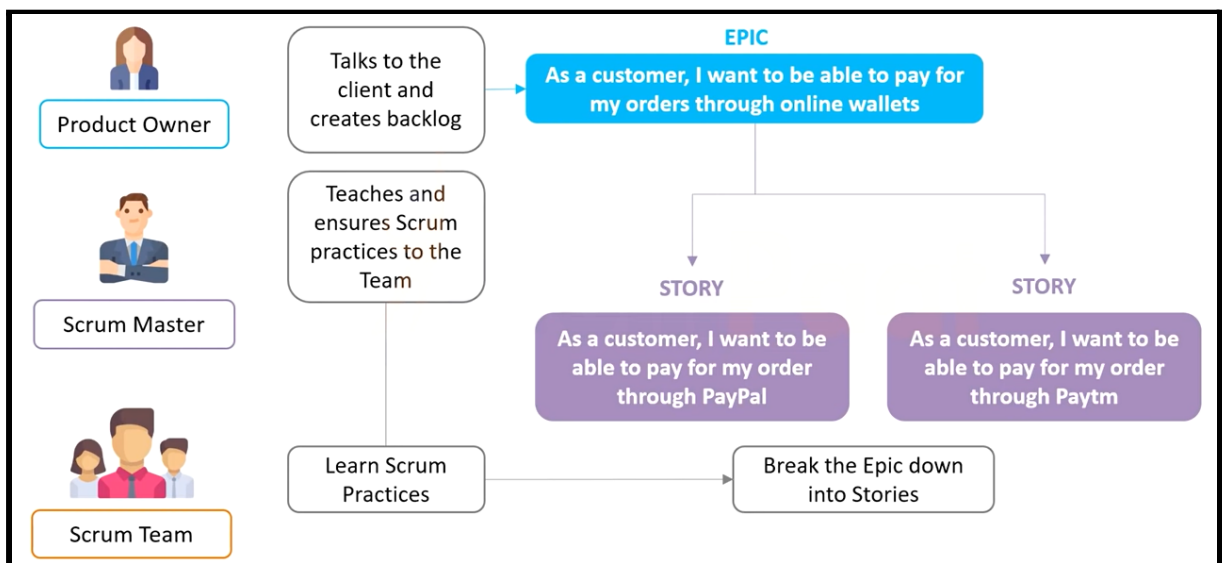
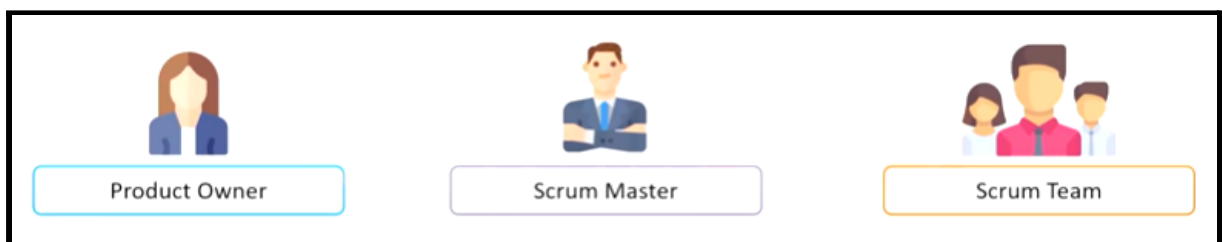
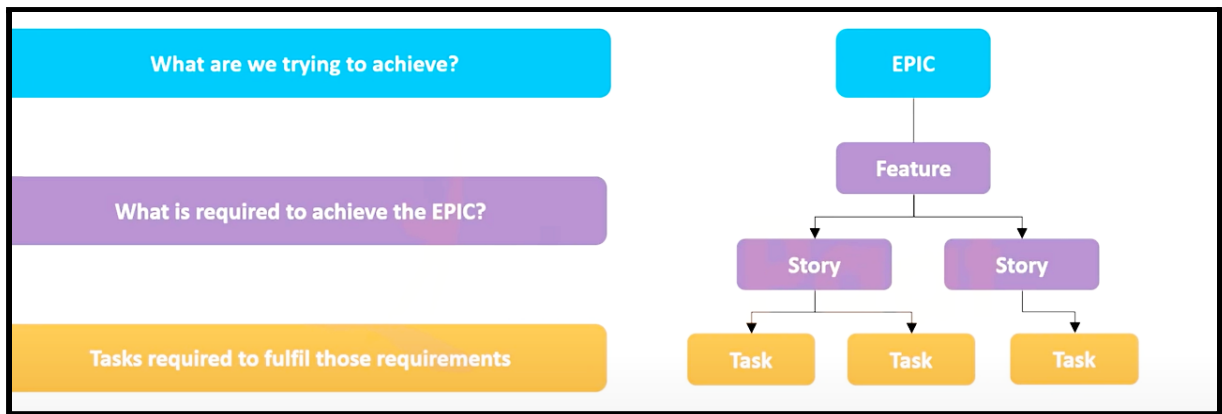
**Projects:** It is used to manage the defects very effectively.

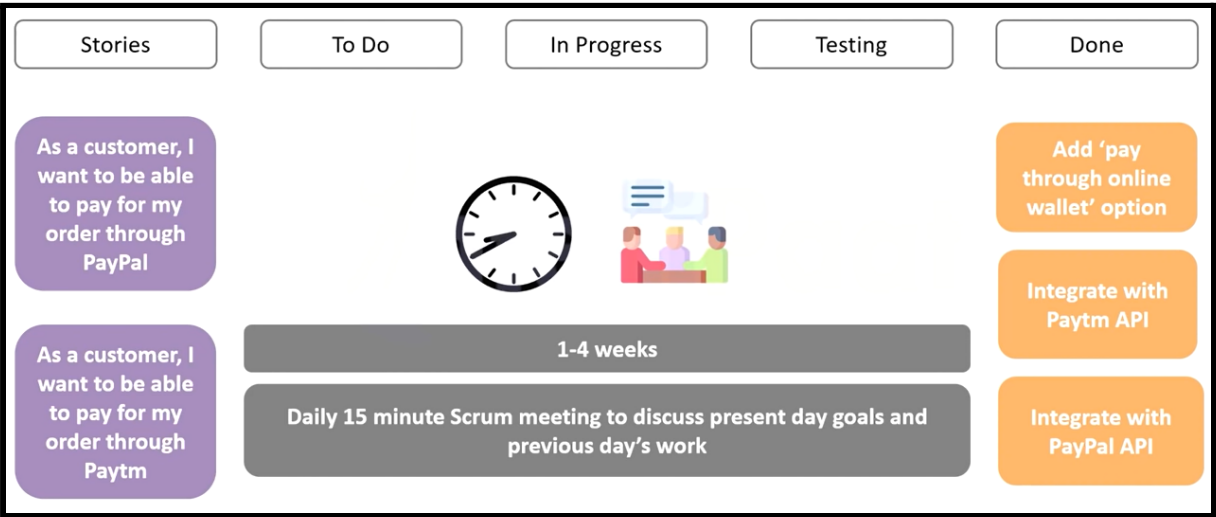
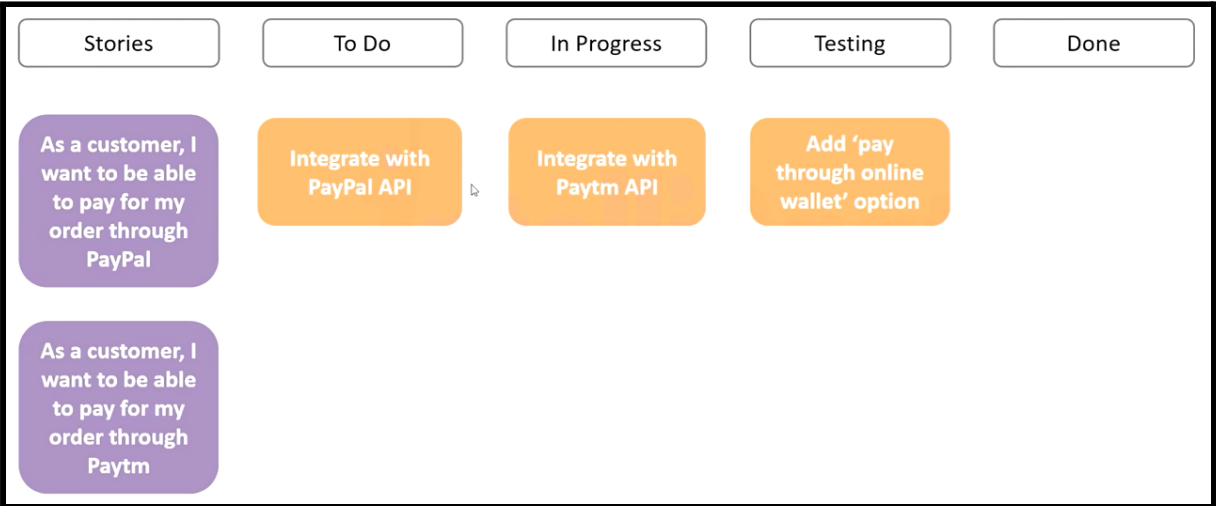
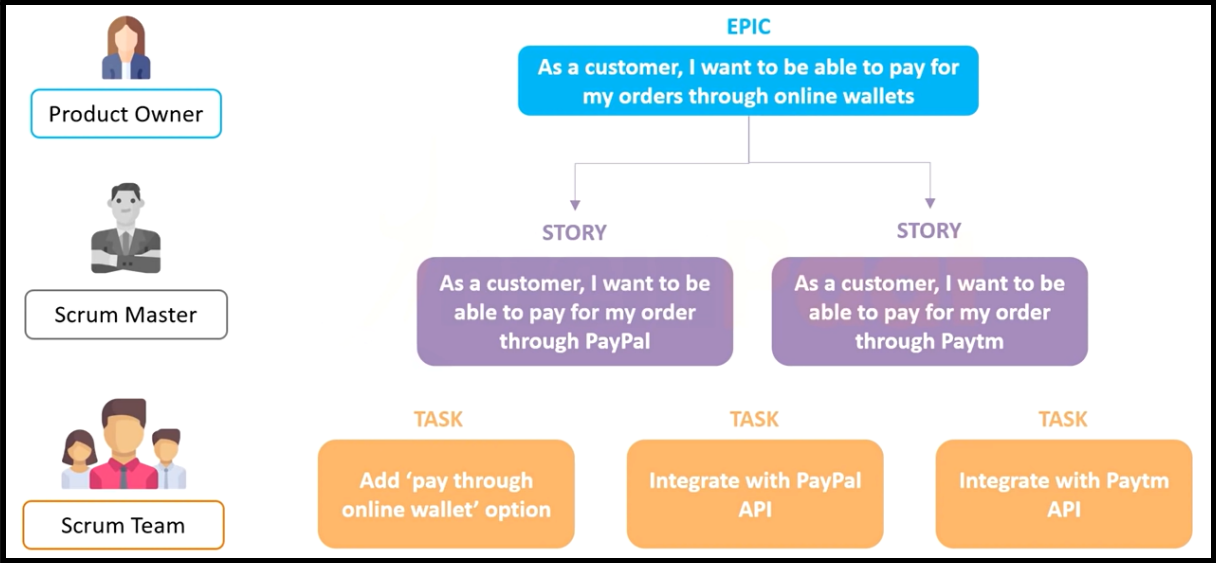
**Issue:** It is used to track and manage the defects/issues.

**Workflow:** Processes the Issue/Defect life cycle. Suppose we have a business requirement, we create the technical design and from the technical design, we create the test cases. After creating the test cases, coding is done, and then testing is performed on the project. This design workflow is possible by using Jira.

**Search:** Find with ease. Suppose we have done with a project at the beginning of December and its version is 1.0. Now, we move to version 1.1 and complete at the end of December. What we are doing is that we are adding new versions. Through Jira, we can get to know what happened in the earlier versions, how many defects occurred in the earlier projects and the learning we achieve from the earlier projects.

**Dashboards:** Dashboard is a display which you see when you log in to the Jira. You can create multiple dashboards for multiple projects. You can create the personal dashboard and can add the gadgets in a dashboard so that you can keep track of the assignments and issues that you are working on.





Jira is a project management tool and an issue tracker developed by Atlassian



Bug Tracking



**Agile**  
Project Management

Creating Backlogs

Creating Sprints

Creating Tasks

Updating status on the board

Managing releases

Code integration

Managing workflows



## JIRA SOFTWARE SCREENS:

- Create a free account on atlassian jira. use the signup with email option.
- Validate your account from email.

<https://www.atlassian.com/try/cloud/signup?bundle=jira-software-confluence&edition=free>

← → ↻ atlassian.com/try/cloud/signup?bundle=jira-software-confluence&edition=free

# Jira Software + Confluence

Cloud Free

Trusted by over 65,000 teams worldwide

✓ Scale agile practices  
✓ Consolidate workflows  
✓ Expand visibility  
✓ Plan, track, and release

Wellcome back, Himanshu

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## Projects

Create project

🔍 Jira Software ✕ ⌵

★ Name : Key : Type Lead :



You don't have any software projects

Create a new software project to plan, track, and release great software with your team.

Create project



## Project templates

Software development

Service management

Work management

Marketing

Human resources

Finance

Design

Personal

Operations

Legal

Sales

PRODUCTS

🔍 Jira Software

Project templates

### Software development

Plan, track and release great software. Get up and running quickly with templates that suit the way your team works. Plus, integrations for DevOps teams that want to connect work across their entire toolchain.



#### Kanban

Visualize and advance your project forward using issues on a powerful board.



#### Scrum

Sprint toward your project goals with a board, backlog, and roadmap.




#### Bug tracking

Manage a list of development tasks and bugs.



← Back to project templates

## 1 Project template



**Scrum**  
Sprint toward your project goals with a board, backlog, and roadmap.

Change template

## 2 Choose a project type

⚠ You'll need to create a new project if you decide to switch project types later.

Team-managed	Company-managed
<b>Set up and maintained by your team.</b> For teams who want to control their own working processes and practices in a self-contained space. Mix and match agile features to support your team as you grow in size and complexity.	<b>Set up and maintained by your Jira admins</b> For teams who want to work with other teams across many projects in a standard way. Encourage and promote organizational best practices and processes through a shared configuration.
Select a team-managed project	Select a company-managed project

← → ↺ 🏠 🔒 https://testitemca.atlassian.net/jira/projects?selectedProjectType=software ☆ ⌵ ⌵ ⌵ 🇬🇧 ☰

← Back to project types

## Add project details

You can change these details anytime in your project settings.

Name \*

Test Project Management

Access Anyone with access to testitemca can access and administer this project. [Upgrade your plan](#) to customize project permissions.


Key ⓘ \*

TPM

☐ **Connect repositories, documents, and more**  
Sync your team's work from other tools with this project for better visibility, access, and automation.

Template


Change template



**Scrum**  
Sprint toward your project goals with a board, backlog, and roadmap.

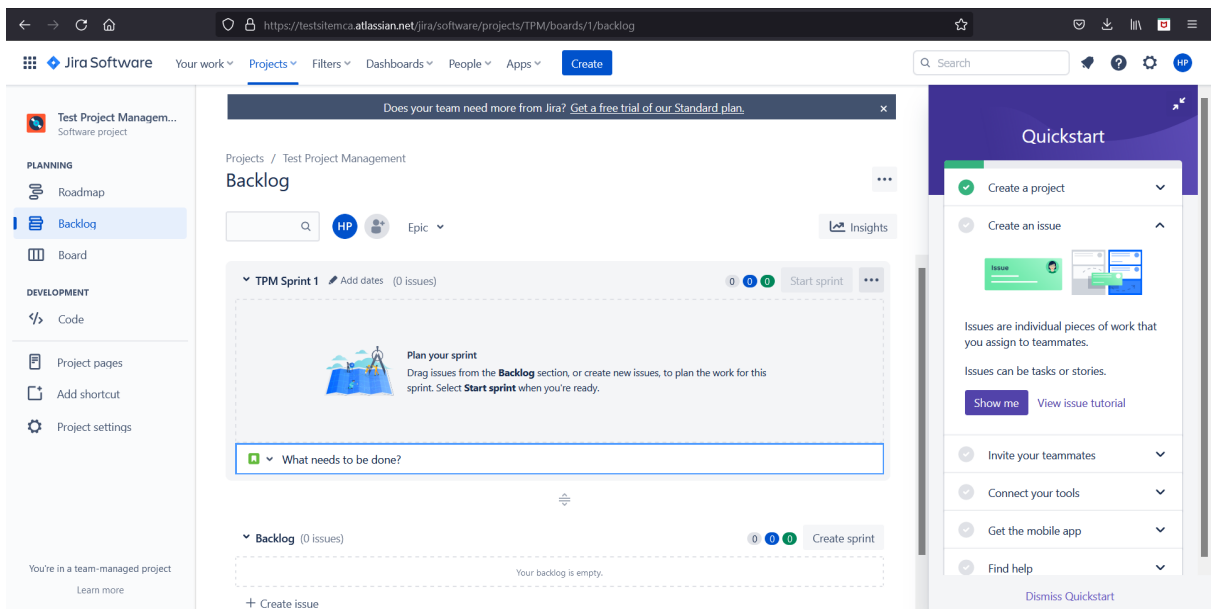
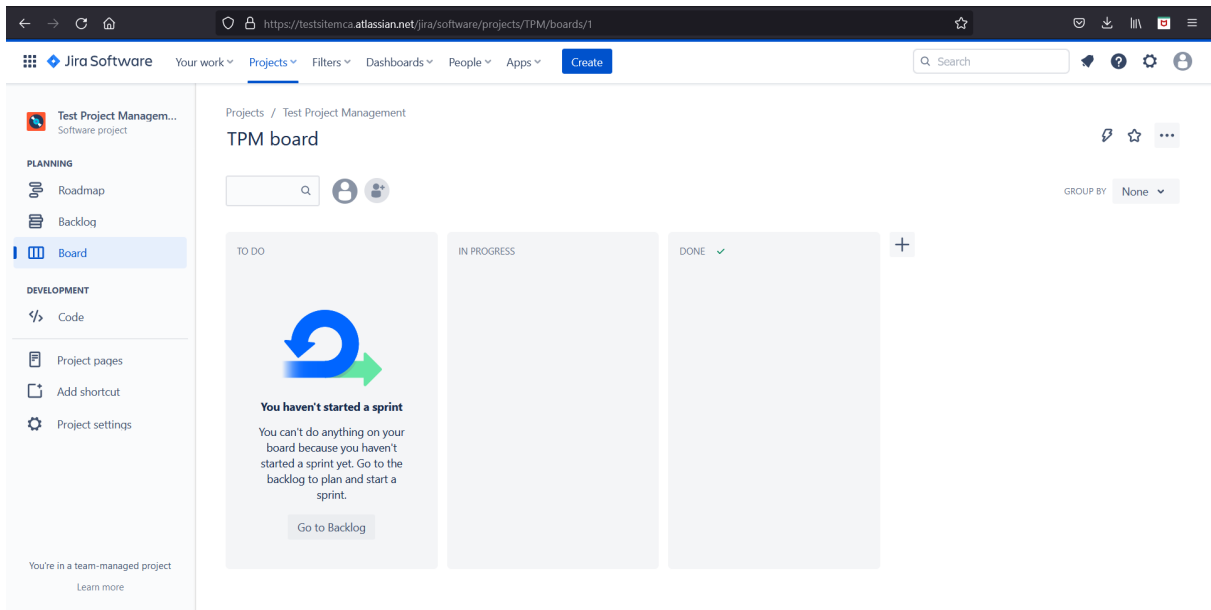
Type

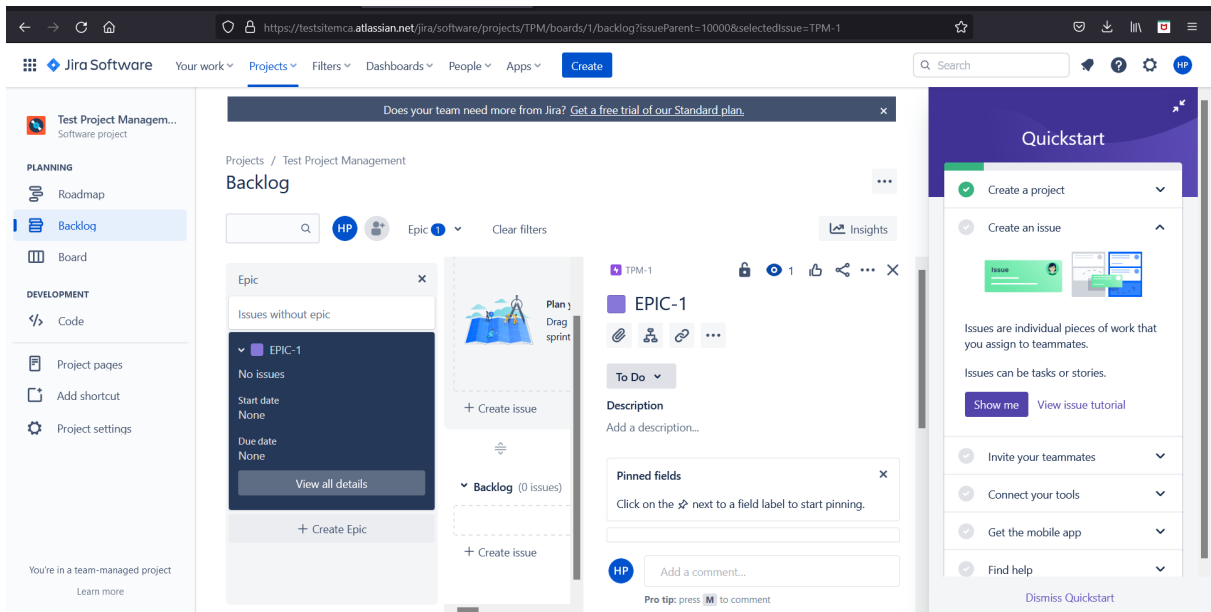
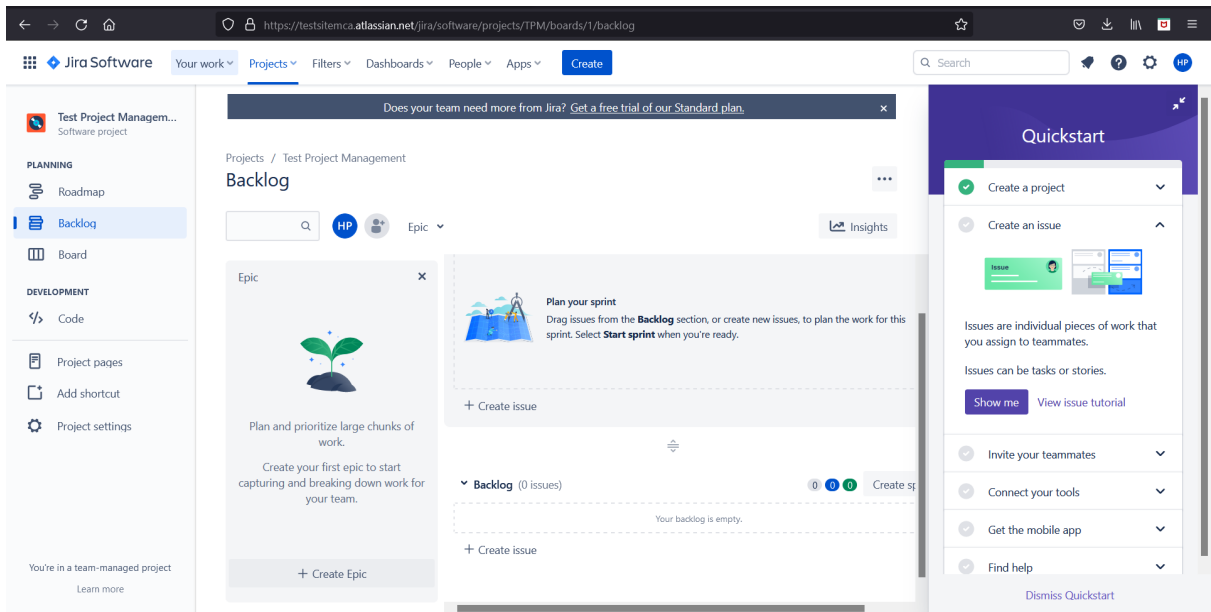
Change type



**Team-managed**  
Control your own working processes and practices in a self-contained space.

Cancel Create project





Test Project Managem...

Software project

PLANNING

Roadmap

Backlog

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

You're in a team-managed project

Learn more

Does your team need more from Jira? Get a free trial of our Standard plan.

Projects / Test Project Management

Backlog

HP

HP

HP

HP

Epic 1

Clear filters

Insights

Epic

Issues without epic

EPIC-1

Start date

None

Due date

None

View all details

+ Create Epic

Plan

Drag sprint

+ Create issue

TPM-1

To Do

Description

Add a description...

Child issues

Order by

0% Done

TPM-2

Story-1

TO DO

TPM-3

Story-2

TO DO

Task

Task-1

HP

Add a comment...

Pro tip: press **M** to comment

Quickstart

Create a project

Create an issue

Issues are individual pieces of work that you assign to teammates.

Issues can be tasks or stories.

Show me

View issue tutorial

Invite your teammates

Connect your tools

Get the mobile app

Find help

Dismiss Quickstart

Test Project Managem...

Software project

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HP

HP

HP

HP

Epic 1

Clear filters

Insights

Epic

Issues without epic

EPIC-1

Start date

None

Due date

None

View all details

+ Create Epic

TPM Sprint 1

Add dates (2 issues)

0 0 0

Start sprint

TPM-2

Story-1

EPIC-1

TO DO

TPM-3

Story-2

EPIC-1

TO DO

+ Create issue

Backlog (0 issues)

0 0 0

Create sprint

Your backlog is empty.

+ Create issue

Quickstart

Create a project

Create an issue

Issues are individual pieces of work that you assign to teammates.

Issues can be tasks or stories.

Show me

View issue tutorial

Invite your teammates

Connect your tools

Get the mobile app

Find help

Dismiss Quickstart

## Start Sprint

2 issues will be included in this sprint.

Sprint name\*

TPM Sprint 1

Duration\*

2 weeks

Start date\*

4/12/2022

8:04 AM

End date\*

4/26/2022

8:04 AM

Sprint goal

Start

Cancel