

# Atlassian Tools

## Lesson 1: Introduction



SOFTWARE-GUILD

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# Atlassian Tools

## Java Cohort

### Lesson 1: Introduction

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#### Overview

In this part of the course, we will look at **issue tracking**, **source code management**, and **code review** tools that you will use to manage your coding assignments.

These types of tools are widely used by professional developers and can be obtained from many companies but we use these products from Atlassian:

- 1 Jira – Issue Tracking
- 2 BitBucket – Source Code Management
- 3 Crucible – Code Review

After reading the notes, watching the videos, and completing the exercise in this section of the course, you will know how to use the Atlassian tools to manage your work items, save your code, and submit your assignments for review and grading.

#### Objectives

- 1 Explain the purpose of Jira
- 2 Explain the purpose of BitBucket
- 3 Explain the purpose of Crucible
- 4 Explain how Jira, BitBucket, and Crucible are used in the course

#### Jira, BitBucket, and Crucible

Jira, BitBucket, and Crucible are web-based products made by Atlassian that are designed to help software developers efficiently track, work on, review, and complete software projects.

#### Jira

Jira is what is known as an **issue tracker**. Software development teams use issue trackers to keep track of all work items needed to complete a project, which items have been completed, which items are still outstanding, and who is working on what.

#### BitBucket

BitBucket is a **source code management** tool. BitBucket is familiar to you from the course pre-work. All of the code you write during the course will be stored in BitBucket and will be accessed using git.

## Crucible

Crucible is a **code review** tool. Software development teams use code reviews as a means to ensure quality and consistency across all of the code in the project. Putting your code through the review process is similar to a writer sending his/her book or essay through the editorial process. Code reviews should be viewed as learning opportunities. During the cohort, code reviews are the mechanism you will use to turn in all code projects so your instructor can grade them and give you feedback.

## Using Atlassian Tools In Class

Each section of the course has several coding assignments. You will use the following process in completing your assignments for each section:

- 1 Create a Jira work item for each assignment in the section.
- 2 Work on your assignments and associate each assignment with its Jira work item when you check code into BitBucket.
- 3 At the end of each section, submit a code review containing all of the code you wrote for that section. Your instructor will review your code and give you one grade for the section.

The videos and remaining notes for this section outline the details of this process.