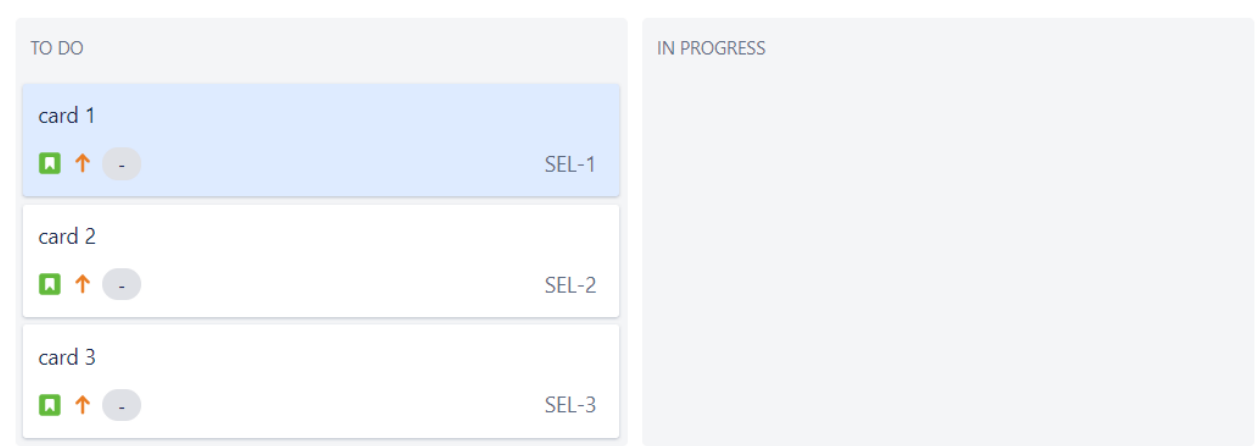# COURSEWARE

Actions

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Overview

Actions in Selenium allow interactions to be chained together.

This can be useful for user actions which require multiple movements - using a volume slider might, for instance, might involve clicking a mouse button, holding it down, moving the mouse, and then releasing the mouse button.

Actions can also be very useful for drag and drop functionality, such as when dragging cards in Jira:

Tutorial

In this tutorial we will be testing the drag and drop functionality of Jira cards. You will need to create a free account with Jira and then create a Jira site.

(Note: if you need a refresher on Jira, the introduction module can be accessed [with this link](#).)

When you progress to the board URL in Selenium, it will take you to the login screen. The reason for this is because when you create a new driver, it will not contain any stored cookies or login information.

Since we need to login first before progressing to the board, at least two Web pages are needed to perform this task.

[We'll use the POM Design Pattern to do this](#).

The first is the login page:

▶ JiraLoginPage

We also have a page for the board:

▶ JiraBoardPage

1) `FindBy`s are used to apply multiple condition. Here we are looking for all list items (`li`) in the `"ghx-column"` classes.

2) Here, we can now list the number of cards on the screen.

3) Here we are able to create a chain of actions to do with clicking and holding, moving the elements, releasing the click and pausing. This follows the Builder Pattern using method-chaining, which will only build and execute when

ending the chain with the `perform()` method.

Once the pages are completed, the test class can then be created:

▶ JiraTest

1) When we go to the `JiraBoardPage` URL we will be automatically redirected to the login page. If this wasn't meant to be tested, it is possible to manually add cookies and web storage to the driver - for brevity we do not attempt this here.

2) Once logged in, we will be taken to the board page. Here the number of cards are counted, a card is moved into that list, and then rechecked to make sure that the number of cards in that list has increased.

Exercises

1. Go to the YouIDraw Web site
2. Draw out your initials
3. Automate this task using actions