



Faculty of Computers and Artificial Intelligence

Cairo University

Spring - 2024

## Software Testing

### Selenium + Spring unit Test - Assignment#2

#### Deadline & Submission:

1. Teams: Form a team of 3 students
2. Zip Part1, Part2 folders and upload them on Classroom with a file named:  
**A2\_student1ID\_student2ID\_student3ID\_GroupName.zip**  
e.g., A2\_20130001\_20130002\_20130005\_S1\_S2.zip
3. Cheating could lead to severe consequences.
4. The assignment Deadline is **Friday, the 19th of May 2024, at 11:59 pm**

#### Assignment Description:

##### Part 1:

Given the below three scenarios, you're required to create one Test Suite containing 2 Test cases and one separate test case for each scenario, where you should add the suitable test scripts that can confirm the success of these scenarios using any of the automation frameworks (Selenium or Robot).

#### Deliverables

If you choose Robot:

Folder named Part1 containing one TestSuite.robot file.

If you choose Selenium:

Folder named Part1 containing java project using selenium to cover the below scenarios.

### Scenario 1: Verify user can search for a movie on the IMDb homepage

- **Given** that the user is on the IMDb homepage "https://www.imdb.com/"
- **When** the user enters a search query "The Shawshank Redemption" (or any other movie name) in the search bar.
- **And** clicks the search button
- **Then** the search results page should display movies related to the search query.
- And the first search result should be "The Shawshank Redemption" movie i.e. the name written in the search query.

### Scenario 2: Verify user can access the top-rated movies section

- **Given** that the user is on the IMDb homepage "https://www.imdb.com/"
- **When** the user clicks on the "Top 250 Movies" link in the header.
- **Then** the user should be directed to the Top 250 Movies movies section page.
- **And** the page should display a list of the Top 250 Movies.
- **And** the first movie in the list should be "The Shawshank Redemption"

### Scenario3: Verify user can search for movies released in a specific year on IMDb (bonus)

- **Given** that the user is on the IMDb homepage "https://www.imdb.com/"
- **When** the user clicks on the "Advanced Search" link in the search bar filter
- The user would then be redirected to a page containing "Advanced Title Search" link, which he should click.
- **And** selects "Feature Film" as title type
- **And** selects the "Action" genre from Genres.
- **And** enters a start year and end year in the "Release Date" fields (2010 - 2020).
- **And** clicks the "Search" button
- **Then** the search results page should display a list of Action movies released between 2010 and 2020, sorted by User Rating (Higher ratings appear first, i.e. descendingly).

## Part 2:

For the second part of the assignment you will find a zip file containing code for a TODO list developed in spring boot.

write unit test cases using Junit, and any necessary libraries you need, to

make test coverage for the applicaion, and use any of the coverage techniques we studied to ensure more coverage for the provided code.

And make sure that there is no overlap between test cases, or redundant ones.

**Coverage should be at least 80% of the code.** Also, if any code changes are required that will help you in writng test cases, feel free to do it, and highlight these changes either in comments or in a separate .txt file

## Deliverables

You will write the test cases in the same project in the test packages, and put it in folder named Part 2