

# COM S/SE 319 : Construction of User Interfaces

## Spring 2022

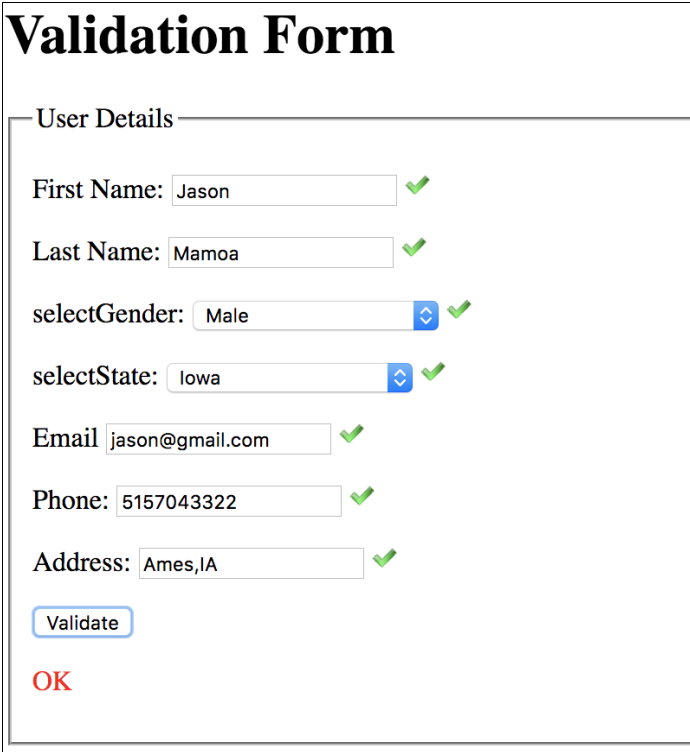
### Homework 4

[Total Points: 30]

**Assignment Due: Monday, March 14, 2022, 11:59 PM**

In this homework, you will do automated testing for an HTML form.

**Task [25 points]:** Validating functions of the **validation.html** in the source code file. You should provide 2 tests that automatically open a **Chrome** browser, one validates the use case that users input correctly and one verifies the use case that users input incorrect. The scenario of 2 use cases are shown in Figure 1 and Figure 2. In JUnit test, you **should make the tests pass**.



The screenshot shows a web form titled "Validation Form". Below the title is a section labeled "User Details" which contains several input fields, each followed by a green checkmark indicating successful validation:

- First Name: Jason ✓
- Last Name: Mamoa ✓
- selectGender: Male ✓
- selectState: Iowa ✓
- Email: jason@gmail.com ✓
- Phone: 5157043322 ✓
- Address: Ames,IA ✓

At the bottom of the form is a "Validate" button and a red "OK" label.

**Figure 1. User inputs correctly.**

## Validation Form

User Details

First Name:  ✓  
Last Name:  ✓  
selectGender:  ✓  
selectState:  ✓  
Email:  ✓  
Phone:  ✗ Phone Must be in the form xxx-xxx-xxxx or xxxxxxxxxx. x should be numeric!  
Address:  ✓  
  
Error

Figure 2. User inputs incorrectly.

### Hint:

- To perform the click button, use Selenium to interact with button with ID **"btnValidate"**.
- To check the status of input for users, you can use Selenium to check the value of **"labelNotifytxtFinalResult"** variable. This label has value "OK" and "Error" with correct and incorrect input.

```

validate
  <p id="FinalResult">
    <label id="labelNotifytxtFinalResult" class="errorMessage">Error</label> == $0
  </p>

```

You have to implement this task using **Html, Javascript, Selenium and JUnit Testing**. We will use **Chrome** web browser to test your solution

Please find the attached HW 4 zip files [HW4-UITesting-Files.zip](#) on Canvas.

**Check list:**

1. Test for validating correct input **[10 pts]**.
2. Test for validating incorrect input **[10 pts]**.
3. In the report, you should specify a brief description about how you make the tests passed in your implementation **[5 pts]**
4. Submit requirement **[5 points]**  
Submit via Canvas a **compressed file (.zip)** [name it as FirstName\_LastName\_HW4] containing the following folders and files:
  - **src**: Attaching your project (which includes the source code) of your implementation
  - **README** file explaining how to compile and run your program
  - **Report** (.docx or .pdf) file describing your solution approach and **screenshots** of every required output.