

COM S/SE 319 : Construction of User Interfaces

Fall 2021

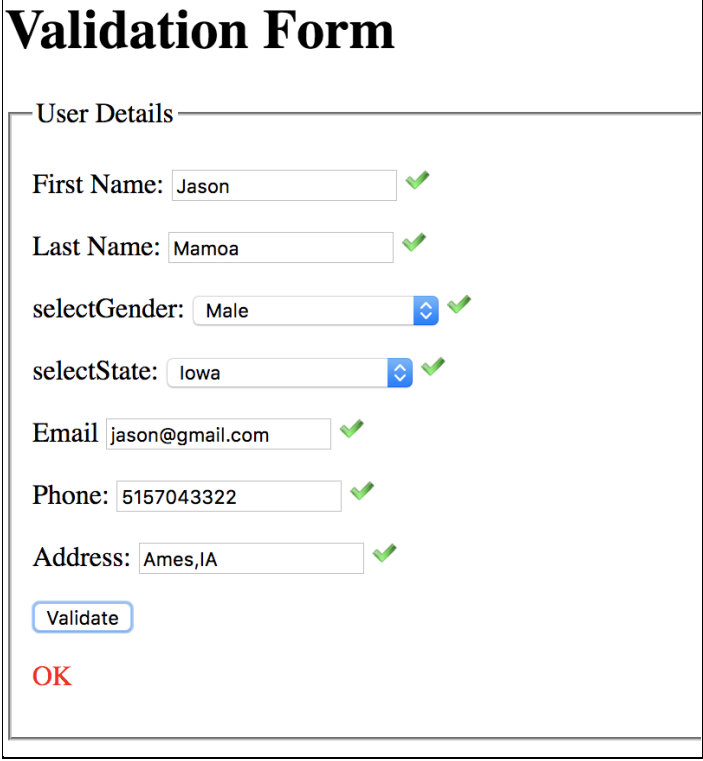
Homework 4

[Total Points: 30]

Assignment Due: Monday, November 15th, 2021, 11:59 PM

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

Task 1 [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". Inside this section, there are several input fields, each followed by a green checkmark indicating successful validation:

- First Name: Jason
- Last Name: Mamoia
- selectGender: Male (dropdown menu)
- selectState: Iowa (dropdown menu)
- Email: jason@gmail.com
- Phone: 5157043322
- Address: Ames,IA

At the bottom of the form, there is a "Validate" button and a red "OK" message.

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>
```

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]

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Please find the attached HW 6 zip files **HW4-Files.zip** on Canvas.

Submit requirement [5 points]

Submit via Canvas a **compressed file (.zip)** [rename it with your LAST NAME] 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 for the task.