# 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.**

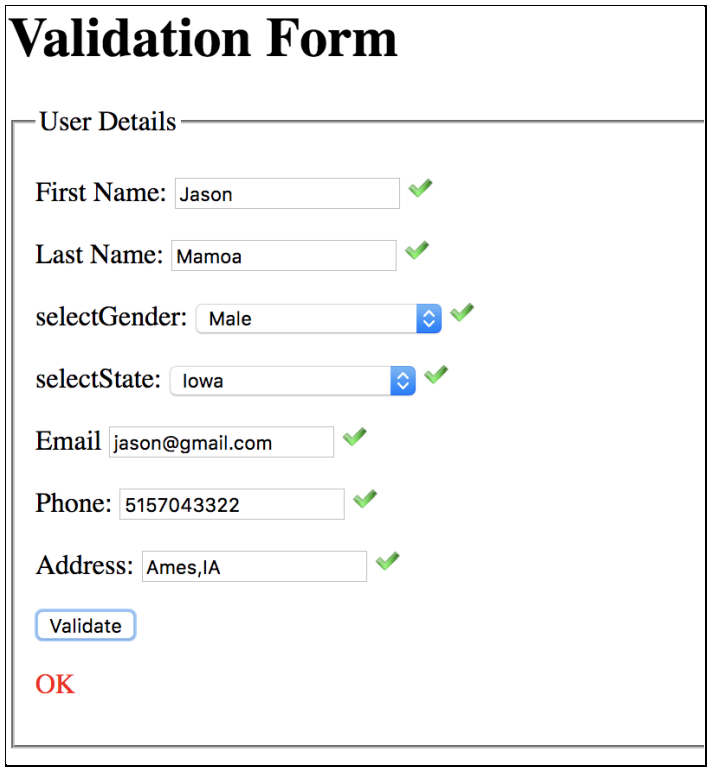


**Figure 1. User inputs correctly.**

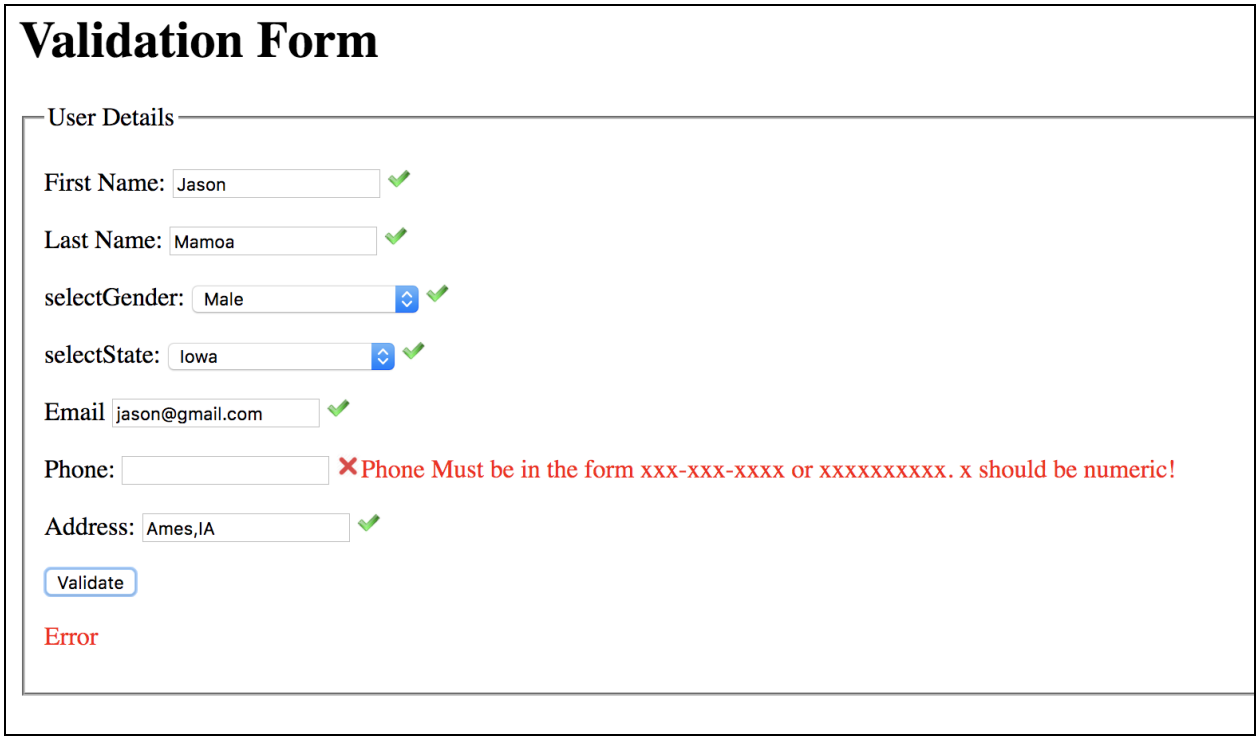


Figure 2. User inputs incorrectly.

**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.

```
<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.