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Construction of User Interfaces

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Homework 4: Selenium

For my solution to this assignment, I based much of my work off of LoginTest.java from Lab 05. However, there were a few ways that I deviated from my solution to the Selenium checkpoint of Lab 05. This included: electing to find my HTML elements using 'By.id()' as opposed to 'By.xpath()', as it seemed more intuitive and made more sense to me, and having to use the Select object to handle automatically selecting items from the dropdown menus for a user's gender and state. For the Select elements to work using 'By.id()', I had to add an ID to both select elements in the HTML file.

In terms of how I make the test pass in my solution, I simply provide the input shown in the two figures of the homework's directions for each case (figure one's information for the validation test that succeeds, and figure two's information for the validation test that fails). Once I have supplied this information to the validation form using Selenium, I then get the text value of the success / error message from the validation page and compare it to the value that we are expecting ("OK" / "Error").

For specific struggles that I encountered during this lab, I had trouble getting Selenium properly imported into my Java project until I went back to the Lab 05 directions and imported all of the necessary JAR files. Additionally, I struggled for a long time trying to understand why Selenium was unable to open the validation.html file, and it was because I had not prefixed my path to the file using 'file://'.

Screenshot of required output below:

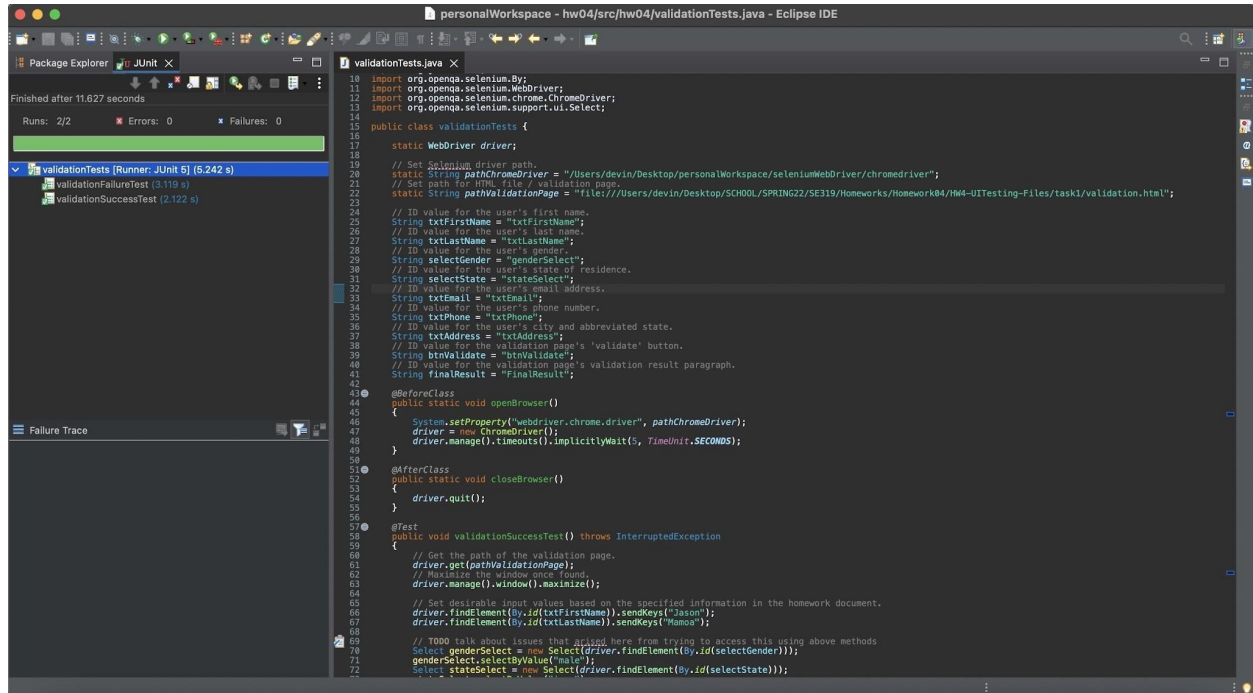


Figure 1.

Screenshot of both JUnit test cases passing. I am assuming that this is the only screenshot that is wanted for this assignment, as we were not responsible for coding the 'validation.html' file that handles validating the user's input.