

05b Surprise Challenge #3

Due: **THURSDAY before 6:00 PM**

Instructions: **COMPLETE** this exercise together as a team and
SUBMIT one PDF copy of this completed document to D2L and
SUBMIT a .side file for your Selenium IDE Test Script

Estimated Duration: 8 hours

This deliverable will be marked out of **10**. Consult the rubric on D2L for grading criteria.

Ensure these **TWO ADDITIONAL ELEMENTS** are implemented before 6:00 PM on Thursday:

1. (5 marks) **Post to social media!**

Having plenty of ways to log into your application isn't enough. We'd like to be able to post about your app from your app, too. We want to share what we're doing and/or what we think with our online community.

Pick one or more social media platforms. **Make it easy for your users to post/tweet/meow or otherwise rave about your app and what they're doing.** Ensure these messages can be sent to their online community from inside your app.

Redirecting the user with a simple link to facebook, twitter or other social media site is NOT the same as implementing the API.

This is **not** sufficient:

```
<a
href="https://twitter.com/intent/tweet?hashtags=mytag&ref_s
rc=twsrc%5Etfw&text=Hello%20world&tw_p=tweetbutton&
url=https%3A%2F%2Fexample.com%2Ffoo&via=twitterdev"
class="btn" id="b"><i></i><span class="label"
id="l">Tweet</span></a>
```

For full marks, you should keep the social media experience on your site without redirects.

How can a user post to social media from your application (at least 2)?

- Go to <https://team-35-ddc6a.web.app/about.html> and click **Share** button to share our website to your Facebook.
- Also on our about page, at the bottom, you could see our Facebook Page, you can post a post, leave a comment or message us.

2. (5 marks) **Implement your test plan using Selenium IDE**

That's right. We want you to implement your test plan.

Start by downloading the Selenium IDE plugin/extension for Chrome and/or Firefox.

Then **create at least 40 tests** which test both positive and negative flows¹ in your site:

- a. Ensure all your tests **pass**
- b. Save your Selenium test script to a **.side** file
- c. Ensure your **.side** file is correct and works
- d. Submit your **.side** file to D2L
- e. Instructors will be opening and running your **.side** file against your hosted site.

What is the difference between a negative flow and a positive flow?

A **negative flow** is where you test the correct handling of **'bad' data** or 'bad' user interaction.

Your site should handle this **gracefully!**

An **example** of negative flow: an email form field should only accept valid email addresses². Your app should properly reject input that is not an email.

An **example negative test**: our user inputs into the email field something that is not a correct email address, like a phone number. Our negative test will pass if the email address is properly rejected and the app responds with a user-friendly error message.

Another **example negative test**: our user attempts to login to an existing user's account with the wrong password. Prove that this fails! Our negative test will pass if our user is rejected at login. Our negative test will fail if our user successfully logs in with an incorrect password, because the user is supposed to provide the correct password before being logged in!

A **positive flow** is where you test the flow of your website assuming the user enters only **valid** data.

An **example** of positive flow: our user always inputs valid email addresses into email fields.

Another **example** of positive flow: our user always logs in using an existing user account with the correct password.

¹ We define this on the next page

² Regex. Did someone say regex? I thought I heard someone say regex...

An **example positive test**: our user logs in as an existing user and they can verify that the correct name is displayed on the profile page.

Another **example positive test**: our user navigates to the about us page and they can see a picture and a name for each member of the team.

Remember: 40 is the MINIMUM. We didn't say 40 would confer complete coverage -- depending on the complexity of your app, 40 may not be nearly enough. Be thoughtful in your deconstruction of the user stories, and expect users to test the limits of your app!

Good luck, and have fun!