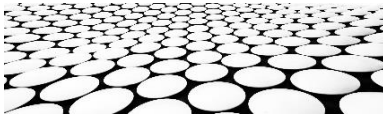SEG3125 User Interface
Design and Analysis

PROJECT 2 - *Site of your choice*

Step 5 – High-fidelity interactive prototype (final version)

GOALS

The current document focuses on Step 5 of your project, in which you must implement in JavaScript (with React framework) a fully functional High-Fidelity Interactive Prototype, which corresponds to an enhanced version of your JavaScript draft version on which you received heuristic evaluations.

This last development step will allow you to:

- Continue your learning/exploration of React, as a very in-demand skill in web design industry
- Reflect on the compliance of your design to all 10 heuristics given the feedback received during the heuristic evaluation phase (step 4)
- Reflect on internationalization of your UI design
- Reflect on accessibility in UI design

TUTORIALS / TECHNOLOGIES

Internationalization / Accessibility

To help you incorporate in your design elements of Internationalization OR Accessibility, you can watch the video lectures.

- Module 5 contains a series of 3 videos on internationalization
- Module 5 contains a series of 8 videos on the UI of the future, in which part 7 discusses accessibility

High-Fidelity Interactive Prototype

- The use of React is mandatory in this Step 5 (final implementation).
- I recommend, again, the Net Ninja video tutorials, Full React Tutorial, I think he is really good. Also, to combine what you've learned in Project 1 (Bootstrap), you can look at Bootstrap-React, which is an integration of Boostrap for React. It is not mandatory, but it would be a good choice for your project.

Prototype Hosting

You can continue using Github pages to host your site. Many students have found Netlify to be an easier choice for hosting their preliminary version of their site. Some tutorials on Netlify have been suggested in the document for Step 3 of this project.

REQUIREMENTS

1. Generate a fully functional high-fidelity interactive prototype

It is required that your UI development be using JavaScript React.

At this point, you have gone through 2 cycles of peer evaluation. One for general feedback on your mockups (Step 2) and one to obtain heuristic evaluations of your first version of your UI (step 4).

Your site should follow theses requirements:

a. Be a full implementation (with navigation and interaction) of your site taking into consideration the general feedback obtained at step 2, as well as the heuristic evaluation obtained at step 4. Your final version of your site should be different from your preliminary version provided the heuristic evaluations you received.

b. Show a particular attention to the organisation patterns and navigation patterns, as well as the layout, the typography, and the color theme chosen. Make sure you watched the Module 2 videos on visual/verbal communication and human cognition.

c. Be without a full backend, but still have all the proper text elements (titles, button text, descriptions, menu text, etc), all the icons, all the images that would be required to make your site "real". There should not be "place holders" anywhere.

d. Allow all 5 interactive processes (3 you defined + 2 provided by your peers). Those will be functional and will be tested by the Tas.

e. Contain an internationalization OR an accessibility component:
   o Internationalization (choice 1):
      ▪ There must be the possibility to select one of 2 languages (English + any language you want). There will be no validation of the accuracy of the translations. Use Google Translate to do your translations. The goal in this lab is to experience the design of a bilingual site, not to have the elements of the language correct.
      ▪ Part of your site must be in another language. The whole site if possible, or if you run out of time, make at least 1 page which includes selection items (menu, buttons, etc) bilingual.
   o Accessibility (choice 2):
      ▪ Your site should be usable by screen readers. Here is an article to help you out: How to Write HTML Code for Screen Readers: 6 Best Tips | OPTASY

2. Host your prototype on a platform

Your website UI should be accessible to the public (or, if you prefer, password protected with the password provided in your report). The TA must be able to test your UI without having to communicate with you.

3. Write a report describing the different steps of your project

The purpose of the report is to illustrate the whole process followed during this Project 2. Your report should include, in this order, and well separated in sections:

1. **General information**
   a. Report title, Name, student number.
   b. Your previous experience in JavaScript development, and what you did as tutorial videos/readings to acquire the necessary skills to do the current project.
   c. Site you decided to do. Its title and overall description.
   d. Inspiration sites (sites you looked at to be inspired for your mockups and/or final UI).
2. **First iteration (mockups & personas)**
   a. Original mockups/sketches (what you submitted in Peergrade).
   b. A description of the two personas/goals you chose to take into consideration in your UI.
3. **Second iteration (JavaScript draft & Heuristic Evaluation)**
   a. Link to your preliminary version of your site, so it can be compared by the TAs with your final one.
   b. A description of elements that will be changed/replaced in your final version and why.
4. **Code for final version**
   a. A link to your final site
   b. A link to your code (on Github or other accessible development site).
5. **Interactive processes**
   a. A list of the 5 interactive processes contained in your site (your 3 original ones + 2 suggested) and some instructions for the TAs to be able to go through each one.
6. **Your own heuristic evaluation of your site**
   a. For each of the 10 heuristics, describe (in words or with screen shots) what you have included in your site to comply to such heuristic.
7. **Appendix 1 – Personas contributions**
   a. At the end of your report, add an appendix in which you describe the 3 personas that you suggested to your peers.
8. **Appendix 2 – Heuristic evaluations**
   a. At the end of your report, add an appendix in which you describe the heuristic evaluations you did for your colleagues. Give just 2 examples of suggestions for each site you evaluated. No need to provide the full evaluations.

SUBMISSION DEADLINE

- Submission: **Thursday, July 21, noon**

☆☆☆ EVALUATION

1. Overall report quality (10%)
2. Mockups + personas suggested (10%)
3. First version of site (link to site + descriptions) (10%)
4. Final version of site (40%)
   a. Utilisation de React (no use of fill-in templates will be accepted)
   b. Overall design of site including modifications from previous versions + elements of internationalization or accessibility
   c. TAs will do their own heuristic evaluation
   d. Interactive processes fully functional
5. Good explanation of elements to comply to a heuristic evaluation (10%)
6. Appendix 1 – Personas contributions (10%)
7. Appendix 2 – Heuristic evaluations provided to 3 peers (10%)

SUBMISSION CONTENT / PLATFORM

You must submit your report, PDF version (see all its requirements above) on Brightspace, under the Assignment section, Project 2 submission.

QUESTIONS

- You can ask your questions within the Project topic of the discussion forum on Brightspace.
- Also, please refer to the *TA-Consultation-Schedule.pdf* file where you can find which TA to write to (depending on your last name) and when zoom consultation hours are provided.