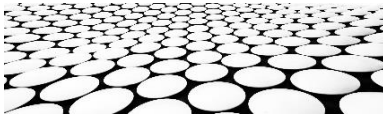SEG3125 User Interface Design and Analysis

MODULE 9 – TUTORIAL/LAB

Implementation of a Web/Mobile Application

GOALS

The goal of Labs 8 and 9 is to implement the application you designed in Lab 7, using React and React Native technologies. In Lab 8, you had to choose between 2 options:

1. Make a web application with the React framework (level 1)
2. Make a mobile application with the React Native framework (level 2 – if you already know React)

Depending on the option chosen, you have already started your web / mobile application, and the purpose of this laboratory is to complete this application, taking into account the requirements listed in the *Coding* section.

Among these requirements, internationalisation is one of the themes of this week, so I ask you to make part of your site bilingual. Do not worry if you are not bilingual, you can choose any language (Italian, English, German, Mandarin, etc.) and simply use Google Translate to do your translations.

SUBMISSION DEADLINE

● Tuesday, July 21, 11:30pm

SUBMISSION METHOD

- In Brightspace, the Module 9 checklist contains a link for your submission.
- Submit two links:
  - a link to your GitHub site which contains the code for your application.
  - a link to a video demonstrating your application and especially explaining how it contains UI elements for each heuristic.
- Be specific and concise. Your video should not be more than 15 minutes long.
- In your video:
  1. First, provide an overview (little guided tour) of your application.
  2. Then, show the bilingualism of your application (language selection method + elements of UIs in both languages).
  3. Finally, go through the 10 heuristics of the heuristic evaluation. For each heuristic, say (and show):
     - "In accordance to heuristic X, here is what I put in my UI."

INSTRUCTIONS / TUTORIALS

Suggestions for React and React Native tutorials were given in Lab 8.

DESIGN

In this laboratory 9, the only new requirement is to make your site bilingual. To do this, it will be necessary to provide in your design a way to select the desired language, and perhaps adapt your design given the variable size of the sentences or words in the menus and buttons (we discussed this variation in size in the videos).

STARTING POINT

Your starting point is your laboratory 8.

CODING

Requirements for Laboratory 9:

- Complete the implementation of your web/mobile application in React or React Native.
- Integrate Bootstrap (or another library if you prefer) to make your site not only functional but also pretty and inviting!
- Make your site consistent with usability heuristics because you will need to present your application in relation to these heuristics.
- Add an internationalization component to your site:
  - There must be the possibility to select one of 2 languages. Choose the languages 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.

☆☆☆ EVALUATION

- Please note: Lab 9 is worth 5.25% and will be marked on 15.

- The TA will listen to your heuristic evaluation. There will be 2 points for each understanding heuristic (consistency, simple and aesthetic design, and familiar language and metaphors), one point per action heuristic (freedom and control, flexibility, recognition over recall) and one point per guidance heuristic (clear status, error prevention, error recovery, help) that you demonstrate using UI components or using design ideas. Make sure your explanations are clear.

- There will be 2 points for internationalization (language selection + part of the site available in another language).

- Any delay beyond the deadline will have a penalty of 10% per day.

QUESTIONS

- You can ask your questions in the Module 9 discussion forum on Brightspace.
- There is a consultation schedule for the laboratories in the organization section of the course on Brightspace. That will tell you when a teaching assistant is available on the forum or by zoom.

- You can also send your questions directly to the TA you are assigned to. Refer to the lab consultation schedule to see which TA you are assigned to.