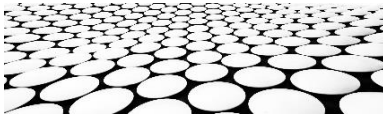


SEG3125 User Interface  
Design and Analysis



## 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 or React Native technologies. In Lab 8, you had to choose between 2 options:

1. Make a web application with the React framework (if you were beginner in React)
2. Make a mobile application with the React Native framework (if you already knew 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, considering the requirements listed in the *Coding* section.

Among these requirements, internationalisation is one of the themes of this week, 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](https://www.google.com/translate) to do your translations.



#### SUBMISSION DEADLINE

- Submission opens: Thursday July 8, 12pm
- Submission closes: Sunday, July 18, 11:30 pm
- Peer review opens: Monday, July 19, 12pm
- Peer review closes: Thursday, July 22, 11:30pm



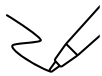
## SUBMISSION METHOD

- In Peergrade, there is a link for your Lab 9 submission.
- Attention: even if you participated in the Live Session, you **MUST** submit in Lab 9 your FINAL web site. Your evaluation will be in Lab 9.
- Make sure you take a look at the evaluation rubrics before you submit. You will be evaluated through a heuristic evaluation.
- Submit 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. Provide an overview (little guided tour) of your application, providing the goal of the application and the targeted audience.
  2. Briefly show your GitHub (or some piece of code) showing that you used React or React Native to do your application.
  3. Show the bilingualism aspect of your application (language selection method + elements of UIs in both languages on at least one page).
  4. Go through the 10 heuristics. For each heuristic, say (and show):
    - “In accordance with heuristic X, here is what I put in my UI.”
    - Since your video has a limited time, choose only one or two elements of the UI for each heuristics, it’s enough.



## 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.

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## 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

- ATTENTION : This laboratory is worth 7%. Consult the peer evaluation rubrics to see how you will be evaluated.
- Take advantage of the Live Session (Lab 8) to submit a preliminary web site and get feedback. It is not mandatory, but it will help you.
- Any delay beyond the deadline will have a penalty of 10% per day.
- ATTENTION: Any modification to your website AFTER the submission deadline will result on a reduction of 50% of your grade.



## QUESTIONS

- You can ask your questions in the Module 9 discussion forum on Brightspace.
  - You can also send your questions directly to the TA you are assigned to. If your last name starts with a letter between A and J - please send mail to Abdorrahim ([abahr010@uottawa.ca](mailto:abahr010@uottawa.ca)), otherwise send an email to Xinyi ([xhe068@uottawa.ca](mailto:xhe068@uottawa.ca)).
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