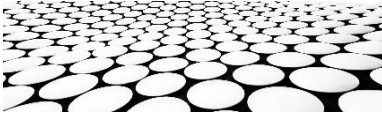


SEG3125 User Interface
Design and AnalysisMODULE 8 – TUTORIAL/LAB
Implementation of The Site of Your
Choice

GOALS

The goal of Labs 8 and 9 is to implement the site you designed in Lab 7, using React or React Native JavaScript libraries. React is a popular JavaScript framework in the industry, and you'll find it useful to learn about it. React Native, which requires knowledge of React, is a mobile application framework.

Learning these technologies is not trivial and requires an investment of time. So, I will give you 2 options for completing Labs 8 and 9 depending on your level of knowledge of JavaScript and React.

Your two options are:

1. Make a web application with the React framework (you are a beginner in React)
2. Make a mobile application with the React Native framework (you already know React)

No matter which option you choose, your application (web or mobile) should:

- Be an implementation of your Lab 7 design.
- Use React or React Native (this is mandatory)
- Be in agreement with the usability heuristics. Your final application (Lab 9) will be evaluated by heuristic evaluation through peer evaluation.
- Be a high-fidelity interactive prototype (everything must be functional without back-end - you can use false data)



SUBMISSION DEADLINE

This laboratory is over Module 8 and Module 9. Your submission in Module 8 is optional, but I strongly suggest you submit a draft of your site to obtain feedback. The peer review process during Module 8 will not count toward your grade, but your peers, will provide comments to help you.

- Submission/Review opens: July 1st, 12pm
- This submission will be run as a “live session”. This means, you can submit whenever you feel your draft is good enough and wish to obtain feedback to make it better. As soon as you submit, you will be able to provide feedback to others and obtain feedback from them.



SUBMISSION METHOD

- Do your submission in Peergrade. Lab 8 is listed there.
- Submit a video demonstration so that your colleagues can see your work so far. In your video demonstration, explain what you are doing, and show your different processes and different UI elements. Don't make it too long (max 10 minutes). Also, in your video, as you narrate your live demo, you can include specific questions to your reviewers. If there is something you are not sure about, you can ask.



INSTRUCTIONS / TUTORIALS

Here are some resources I suggest using:

Learning React:

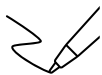
- I recommend Net Ninja videos! He has a very [good series of video tutorials on React](#). You can first get a taste for React and how it works by watching this [short video](#).

Integration of Bootstrap with React:

- To facilitate the layout of your site, you can integrate elements of Bootstrap in React. Look here to do the integration: <https://react-bootstrap.github.io/getting-started/introduction/>
- Some designers use [Materialize](#) to help with styling. But you do not need to.

Learning React Native (if you are doing Option 2)

- Listen to Net Ninja's [React Native Tutorial](#) videos. You'll see that the first video mentions that this series on React Native is aimed at people who are already familiar with React.



DESIGN

This is an implementation laboratory; your design should already be completed at Laboratory 7. **But** as we all know, sometimes when we start our implementation, we also modify our design. So don't hesitate to make any changes you find necessary.

Also, I am aware that if you choose option 1 (web application), you will not be implementing a mobile application within SEG3125. I find that the course is already heavy, and it is sufficient to ask you to make a good web application.

Nevertheless, I recommend that you think of your web application as if it were accessed using a phone. So do not hesitate to adapt the design of your site so that it is "mobile first". The reality today is that most websites are accessed mainly by mobile phones.



STARTING POINT

Since your projects are all different, I can't really provide a starting code that would help you all.

However, if you follow the Net Ninja course videos, you will see that the author gives a link to his GitHub directory in almost all of his videos.

Even if 32 videos in the Net Ninja [Full React Tutorial](#) may seem long to you I **highly recommend them!** The videos are between 3 and 8 minutes long, so in total, that's about a 3-hour tutorial. And with this 3-hour investment, since the author has his code available in a Github, you will already have a little code that you will understand and which will serve as your starting point.



CODING

Requirements for Laboratory 8:

- Your programming must be done with React or React Native. This is the first time in the semester that a JavaScript framework is **mandatory**.
- Your site should conform to your Lab 7 design. If you make changes, you can mention these changes in your submission.
- Concentrate on the 4 processes that you put in your design (Lab 7) and think about your application in terms of which React components will be associated with each process.
- Begin implementing the components planned in the previous step.
- Have a minimally functional site.

In order not to have any surprises, I also give you below the requirements of Lab 9 for next week:

Requirements for Laboratory 9:

- Complete the implementation of your site in React or application in React Native.
 - Integrate Bootstrap (or another library if you prefer) to make your site not only functional but also aesthetically pleasing.
 - Make your site consistent with usability heuristics because it will be evaluated by a heuristic evaluation.
 - Include an internationalization component in your site. (To be better explained next week)
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EVALUATION

- ATTENTION: This laboratory is worth 7%. It is over 2 weeks, and therefore counts as 2 labs. The final evaluation is in Lab 9. The current submission is optional.
- A first peer review will be available to give you comments. Take advantage of it. Only students who provide reviews to others can see the reviews they obtain. Please take part in the process. Take a look at the evaluation rubrics before you submit.



QUESTIONS

- You can ask your questions in the Module 8 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), otherwise send an email to Xinyi (xhe068@uottawa.ca).
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