

DMIT2008 Thinking in React Report

Introduction

For this assessment, you and your partner will need to prepare web report (a single web page) on Thinking in React and how the concepts of the React library can be applied to create a UI solution. Your report should be well thought-out and informative.

Important Note:

- **You can complete this as a pair or a single.**
- **If you are a pair you need display who worked on what.**
- **If you are working as a pair: send me an email (with both of you on it), so that you can show what's going on.**

Tasks

You are tasked with creating a short report on the use of React to create an interactive UI for one of two options:

1. The previous example application - the Stock Viewer
2. Choose an existing website or application (suggested to use a small site)

You may approach this problem with the assumption that the current solution is the starting point, or you may create an entirely new UI mock up to start from. Work through and apply the theory from section 12 of the React Main Concepts guide (<https://reactjs.org/docs/thinking-in-react.html>) to your solution. You do not have to build a working React solution for this assignment; **you need to document how you would go about building the React solution** and simply hard-code any 'moving parts' for the components you create.

Guide

The following list provides a basic guide for how your report *may* be structured; it is based on the content from section 12 of the Main Concepts page (see link above):

- Start with a mock:
 - As mentioned above, this mock can be based on your current solution or an existing website/application, or can be a new design mock.
 - Ensure that all previous requirements are met (e.g. any functionality that the app or website currently has)
- Break the UI into a component hierarchy
 - Identify components you will need and how they will relate to each other (will they be siblings, children, etc.)
 - Name your components appropriately.
- Build a **static mockup version** of your app in React
 - Follow the suggestions in this section of the guide, and don't worry too much (i.e. don't worry at all) about actual performance and functionality - **the intent here is to explore how your ideas will work, not if they work**
- Identify the minimal representation of state

- What in your app will best be represented as state vs. props (if anything)

Requirements

You will submit a ZIP archive that contains the report, README.md, and a small static mockup.

Deliverables

- Zip archive that contains:
 - research notes/planning docs
 - sample demo code
 - File of who worked on what (only if you're working as a pair).
 - the article/report
 - README.md file.
- A README.md file that describes the the following (in the zip)
 - Where to find the article describing findings
 - If you are a pair you need display who worked on what in a file.
 - Where to find Small static mockup Version of site and how to run it
- A single web page (or docx file) report/article will be delivered that describes the following (in the zip)
 - Component heirarchy
 - Where the minimal State should be and what is best be represented as state vs. Props.
 - Note: this should follow the same idea as
<https://reactjs.org/docs/thinking-in-react.html>
- Small static mockup Version (in the zip)
 - Follow the suggestions the guide, and don't worry to much (i.e. don't worry at all) about actual performance and functionality.
 - Should follow the ideas in your report.
- File of who worked on what (only if you're working as a pair).
 - I don't want one person doing the work.
 - **I don't want arguments about people not doing work.** Work as a single if you don't want to work in a group.
- **Bonus (no extra marks, just for fun)** identify in your research notes/planning notes (and/or at the end of the article) what packages/libraries/components the developers might have used, or packages that would be quite useful to improve and extend the project. You can take a look a list of components here to explore
<https://github.com/brillout/awesome-react-components>.

Note: This is a reasearch project, you don't need to create everything fully functional in your static App.

If you have any questions regarding this assignment, be sure to seek guidance from you instructor.