

Lab Assignment



Lab Assignment

- In this week's assignment, you will build a basic shopping cart app using React.
- You are expected to utilize the concepts you have learned this week
- The Todo List app from this week's homework has similar principles that you can apply to this app.
- As a web developer, you are also expected to problem solve by doing your own research on concepts and techniques. Give yourself a 10 to 15 minutes to problem solve before asking for assistance.
- There are plenty of React and Javascript resources and documentation out there. Be selective where you get your resource from. Documentation like <https://reactjs.org/docs> are great resources. But of course, you should venture outside of this as well. Some of the things you should look out for: date of article/post, reputation, is it resolved, tested and reviewed.








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- This is what you will be building this week:

Note:

PDF available in the zip file.

Shop to React		 0 items
Unisex Cologne		<input type="text" value="0"/> quantity
Apple iWatch		<input type="text" value="0"/> quantity
Unique Mug		<input type="text" value="0"/> quantity
Mens Wallet		<input type="text" value="0"/> quantity



Lab Assignment

- To start, create a folder **m5-lab-assignment** in the WESTCLIFF folder.
- Launch VS Code and navigate to **m5-lab-assignment**.
- In your bash terminal, scaffold a basic react app:
npx create-react-app shopcart
- This will create the basic file structure setup in a new project folder name **shopcart**.
- Next, download **m5-assignment.zip** from GAP Week 1 Day 3, unzip and drop the content into **shopcart/public**.
- In VS Code, CD to this app folder: **cd shopcart**
- Open the **.gitignore** file and make sure **node_modules** is in there. If not add **/node_modules**



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- Install the following packages:

- **Bootstrap:**

`npm install bootstrap`

- **Reactstrap:**

`npm install reactstrap`

- **Font-Awesome:**

`npm i --save @fortawesome/fontawesome-svg-core`

`npm install --save @fortawesome/free-solid-svg-icons`

`npm install --save @fortawesome/react-fontawesome`

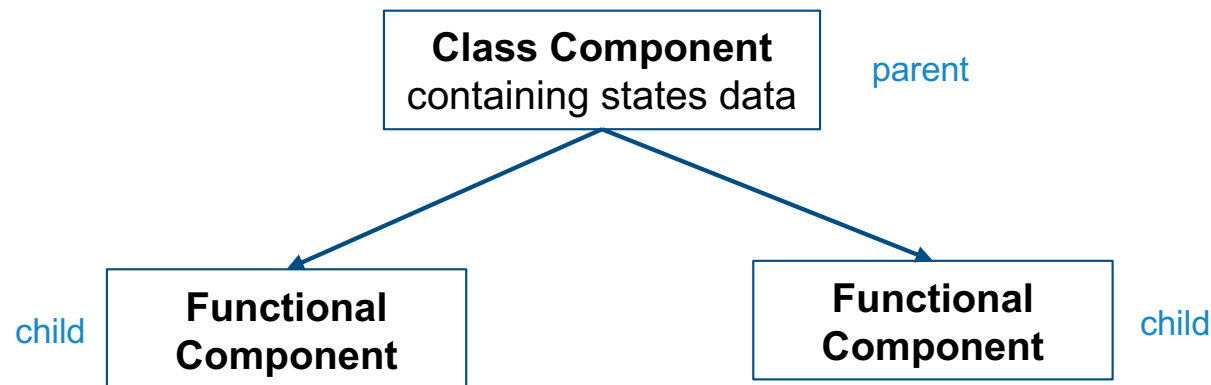
<https://fontawesome.com/how-to-use/on-the-web/using-with/react>

When finished, check dependencies in package.json to verify installation



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- As a recap of how the app structure should be broken down:



- Your app will have this structure. All components are to be created in **App.js**.
- Note: child components should be rendered in the parent component.



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- Build this app in small progressions. Here are the steps I recommend:
 1. Import all required library components

```
import React, { Component } from "react";
import "bootstrap/dist/css/bootstrap.min.css";
import { faShoppingCart } from "@fortawesome/free-solid-svg-icons";
import { FontAwesomeIcon } from "@fortawesome/react-fontawesome";
```

(<https://fontawesome.com/icons?d=gallery&p=2>)
 2. Get images to display
 3. Get quantity from data to display for each product
 4. Get site name to display
 5. Get shopping cart icon to display
 6. Get total quantity to display (chain array map and reduce methods)



Homework

- **DUE:**

Today 10.30PM PT

- **Submission:**

Post Github URL on GAP Week 1 Day 3 Lab Assignment

- **Quiz Reminder:**

Don't forget to take the quiz while in lab today. Closes tomorrow at 11.59PM.



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End of Presentation