

## CSE183 Fall 2020 - Assignment 6

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In this assignment you will write a React and Material-UI Web App based on wire-frame designs given to you by a supposed client.

**This assignment is worth 7% of your final grade.**

**Submissions are due NO LATER than 23:59, Thursday November 12, 2020 (1 week)**

### Installation

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See instructions in Assignment 3 and ensure you are running the current LTS version of Node.js.

### Setup

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Download the starter code archive from Canvas and expand into an empty folder. I recommend, if you have not already done so, creating a folder for the class and individual folders beneath that for each assignment.

The starter code archive contains one file that you will modify:

```
src/App.js  
public/index.html
```

And some files that you should not modify:

```
public/favicon.ico  
src/data/emails.json  
src/index.js  
package.json  
.eslintrc.js
```

To setup the development environment, **navigate to the folder where you extracted the starter code** and run the following command:

```
$ npm install
```

This will take some time to execute as `npm` downloads and installs all the packages required to build the assignment.

To start the dev server, run the following command:

```
$ npm start
```

A new browser window will open:

The screenshot shows a web browser window with the URL `localhost:3000`. The page displays a table with columns for sender, subject, and timestamp. The data is as follows:

Let's make this look way better with Material-UI, eh?		
Eryn Ballendine	nisl nunc	2020-01-10T04:58:41Z Inbox
Abby Rolin	pellentesque eget	2020-04-10T00:56:46Z Trash
Jonis McBrady	lobortis vel	2020-07-04T13:54:10Z Inbox
Ellyn McCleverty	sit amet nunc viverra	2019-12-09T23:20:11Z Inbox
Emmaline Cobbled	quis orci nullam molestie nibh	2020-03-05T06:41:32Z Inbox
Lorena Babon	massa id nisl venenatis lacinia	2020-09-25T21:12:37Z Inbox
Erek Phetiplace	ultrices vel	2020-02-13T21:23:22Z Trash
Carlina O'Kinneally	sodales sed tincidunt eu	2020-10-14T21:41:01Z Trash
Karen Kleinhaus	morbi sem mauris	2020-08-04T16:38:44Z Inbox
Elnora Reimers	ante ipsum primis	2019-12-06T11:08:40Z Trash
Hermenia Nichols	feugiat et eros	2020-09-13T19:02:56Z Trash
Ruth Pourvoireur	pellentesque eget	2020-08-26T11:51:35Z Inbox
Grayce Bosden	nulla suspendisse potenti	2020-04-19T22:34:56Z Inbox
Nelli Shailer	etiam justo etiam	2020-09-22T19:23:22Z Inbox

## Requirements

A client has given you a set of wireframes / mock-ups for an e-mail reader they want you implement in React and Material-UI. Your client has a number of requirements...

### Desktop 1:

The wireframe shows a desktop application window titled "CSE183 Mail - Inbox". On the left is a sidebar with "Inbox" and "Trash" buttons. The main area displays a list of emails from various senders like Bob Dylan, Lt. Dish, Big Bird, Kermit, Steve Martin, and Dianne Chambers. Each email includes the subject, recipient, and timestamp. A red arrow points from the sidebar to the "Inbox" button. Another red arrow points from the sidebar to the "Trash" button. A third red arrow points from the list area to the timestamp column. A fourth red arrow points from the list area to the bottom right corner of the main content area. Handwritten notes provide specific requirements:

- Title : Shows if we're in Trash or Inbox
- Button Bar: Click items to switch between Trash and Inbox in the E-mail list
- List of E-Mails in Trash or Inbox sorted by received date - most recently received at the top
- Show time if received today, Month and Day if in last year, Year only if more than a year ago — thanks!

.../.

### Desktop 2:

The wireframe shows the same desktop application window. The sidebar buttons are visible. The main area displays the same list of emails. A red arrow points from the list area to the timestamp column. A second red arrow points from the list area to the bottom right corner of the main content area. A third red arrow points from the list area to the "X" icon in the viewing box. A fourth red arrow points from the viewing box to the bottom right corner of the main content area. Handwritten notes provide specific requirements:

- Click an E-Mail in the list and the full message appears in a viewing box below the list
- Click this 'X' and the viewing box goes away — Also hide the viewing box if the user switches from Inbox to Trash and visa-versa

### Desktop 3:

When the window is reduced in width to the point where the message titles are getting too short, hide the Button Bar and replace it with a Menu Icon to the left of the title



CSE183 Mail - Inbox		
Bob Dylan	Fancy a brew tonight?	10:32
Lt. Dish	Meet me in the supply room	09:20
Big Bird	Have you seen my car keys?	Nov 4
Kermit	Fall Bookings	Nov 4
Steve Martin	Banjo, Banjo, Banjo, Banjo, Banjo, ...	Oct 23
Dianne Cha...	Good evening Dr Crane	1986

If the menu icon is clicked, show the Button Bar over the top of the E-Mail List.

Clicking on the list or Title or Menu Icon should hide the Button Bar again. Clicking a Button Bar item should select the appropriate list AND close the button bar ☺



CSE183 Mail - Inbox		
 Inbox	Fancy a brew tonight?	10:32
 Trash	Meet me in the supply room	09:20
	Have you seen my car keys?	Nov 4
	Fall Bookings	Nov 4
	Banjo, Banjo, Banjo, Banjo, Banjo, ...	Oct 23
	Good evening Dr Crane	1986

## Mobile 1:

Show a menu icon next to the Title

Show the Trash or Inbox E-Mails using the full width of the phone screen

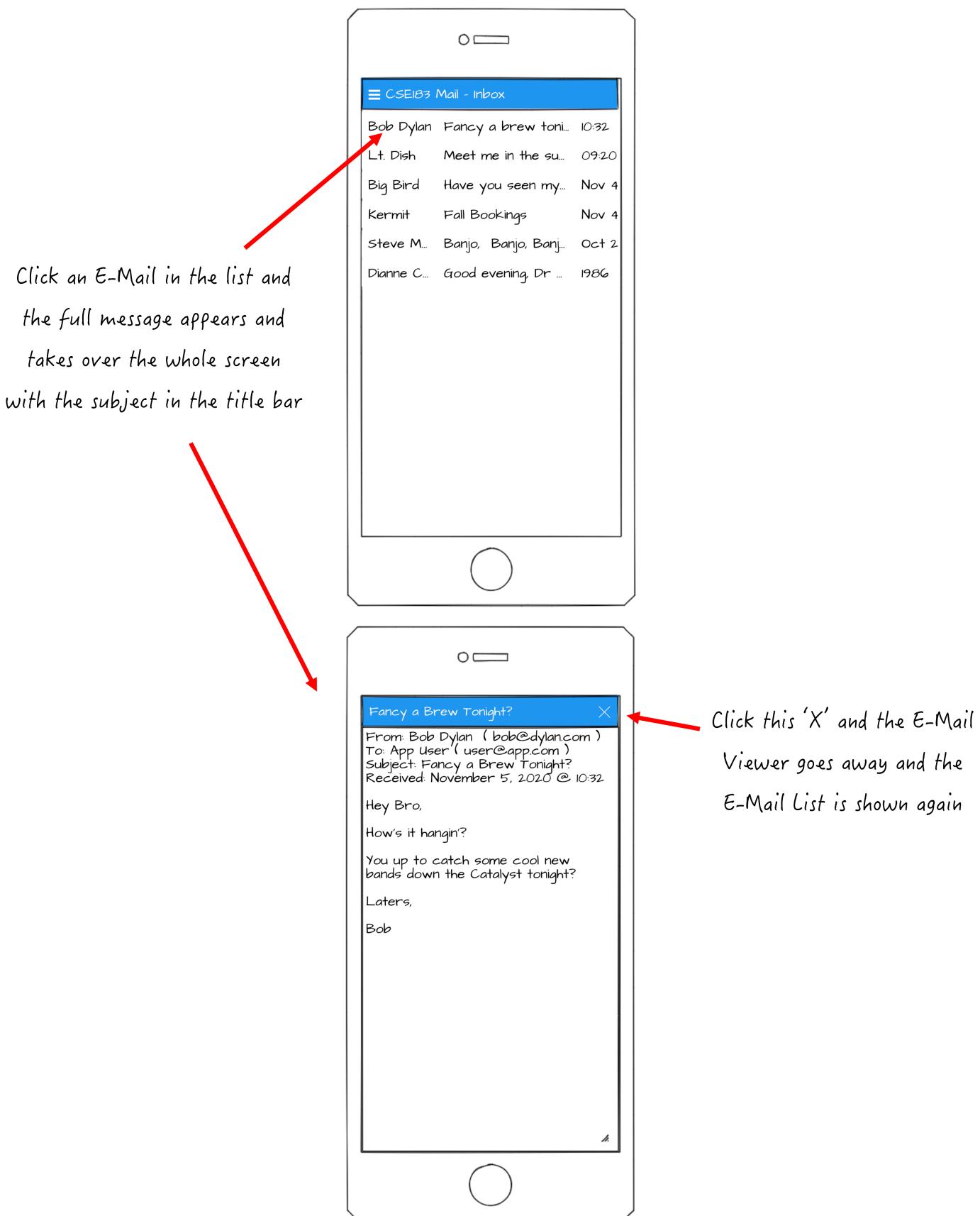


If the menu icon is clicked, show the Button Bar over the top of the E-Mail List.

Clicking on the list or Title or Menu Icon should hide the Button Bar again. Clicking a Button Bar item should select the appropriate list AND close the button bar — woo-hoo!



## Mobile 2:



## What steps should I take to tackle this?

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Study the examples at <https://material-ui.com/>, play with their code in the provided sandboxes, then use some of it as started code for your Web App. Don't be alarmed if you end up throwing a few attempts away, that's perfectly normal and very good experience.

You'll probably find you don't understand all the code you use, but that's ok. Get it running then modify so it does what you want. Don't struggle for too long with something you can't get to work. Find another example and try that.

## Lint-as-you-type

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You'll notice that the assignment has been configured so your React Web App will not run if your code fails any of the linter checks. Your code will therefore need to be super clean and tidy before you can manually test it 😊

**Much of the code you find on-line will fall foul of the linter checks - so fix it!**

## How much code will I need to write?

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Potentially very little. Use the examples at <https://material-ui.com/> and anywhere else you can find code that helps you meet the requirements. Remember to give credit to the original authors.

## Grading scheme

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The following aspects will be assessed:

1. (100%) **Does it work?**

- a. Desktop 1 ( 2 points )
- b. Desktop 2 ( 2 points )
- c. Desktop 3 ( 1 point )
- d. Mobile 1 ( 1 point )
- e. Mobile 2 ( 1 point )

2. (-100%) **Did you give credit where credit is due?**

- a. Your submission is found to contain code segments copied from on-line resources and you failed to give clear and unambiguous credit to the original author(s) in your source code (-100%). You will also be subject to the university academic misconduct procedure as stated in the class academic integrity policy.
- b. Your submission is determined to be a copy of a past or present student's submission (-100%)
- c. ~~Your submission is found to contain code segments copied from on-line resources that you did give a clear and unambiguous credit to in your source code, but the copied code constitutes too significant a percentage of your submission:~~
  - <80% copied code No deduction
  - 33% to 66% copied code (-50%)
  - >66% copied code (-100%)

**In this assignment you are encouraged to use as much code as you can find on-line - but remember to give credit to the original authors.**

## **What to submit**

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Make a Zip archive of your `src` folder such that the Zip looks something like this:

```
public
    index.html          ( modified )
src
    SomeCompoent.js    ( new )
    SomeOtherCompoent.js ( new )
    App.js              ( modified )
```

**\*\*\*\* UPLOAD THIS ZIP ARCHIVE TO THE CANVAS ASSIGNMENT AND SUBMIT \*\*\*\***