



College of Engineering, Construction and Living Sciences  
Bachelor of Information Technology  
IN608: Intermediate Application Development Concepts  
Level 6, Credits 15  
**Practical 17 React 2: Components & Props**

**Due Date:** /09/2020 at 5pm

In this practical, you will complete a series of tasks covering today's lecture. This practical is worth 1% of the final mark for the IN608: Intermediate Application Development Concepts course.

Before you start, in your practicals repository, create a new branch called **17-practical**.

## Task

Create a React app called `practical17components`. `cd` to `practical17components` & install the following packages:

- Material Design for Bootstrap - `npm i mdbreact`
- React router - `npm i react-router-dom`

Optionally, you can install all of them at once, i.e., `npm i mdbreact react-router-dom`.

Create a directory called `components`. Move `App.js` into `components`. Create three files called `Login.js`, `Signup.js` & `Error.js`.

Implement the following:

- In `Login.js`, create a function based component called `Login` which returns a login form using the `mdbreact` package
- In `Signup.js`, create a function based component called `Signup` which returns a signup form using the `mdbreact` package
- In `Error.js`, create a function component which returns the message `404: Not Found.` in an `h1`

If you are confused, please refer to the **Material Design for Bootstrap** resource link & expected output below.

In `App.js`, call the `Login`, `Signup` & `Error` components in the appropriate routes using `react-router-dom`. Your `App.js` file should look like the following:

```
import React from 'react'
import { Route, Switch } from 'react-router-dom'
import Error from './Error'
import Login from './Login'
import Signup from './Signup'

const App = () => {
  return (
    <div className='main-container'>
      <Switch>
        <Route path='/' component={Login} exact />
        <Route path='/signup' component={Signup} />
        <Route component={Error} />
      </Switch>
    </div>
  )
}

export default App
```

In `index.js` declare the following imports:

```
import { BrowserRouter } from 'react-router-dom'
import '@fortawesome/fontawesome-free/css/all.min.css'
import 'bootstrap-css-only/css/bootstrap.min.css'
import 'mdbootstrap/dist/css/mdb.css'
```

This is just a reference to a CSS files in the `mdbootstrap` & `bootstrap-css-only` packages.

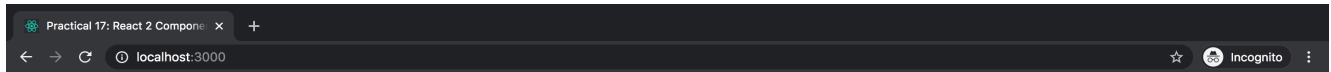
In `ReactDOM.render()`, wrap `BrowserRouter` around `App`. Your `ReactDOM.render()` should look like the following:

```
ReactDOM.render(
  <React.StrictMode>
    <BrowserRouter>
      <App />
    </BrowserRouter>
  </React.StrictMode>,
  document.getElementById('root')
)
```


**Note:** `className='main-container'` refers to the `index.css` style used in the code examples.


## Expected Output

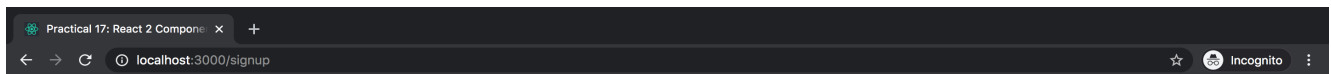
Run the command `npm start` then navigate to <http://localhost:3000/>




## Login


 Email Address


 Password




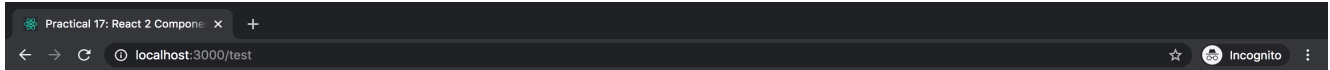
## Sign Up

 Username

 Email Address

 Password

 Confirm Password



404: Not Found.

**Deployment link:** <https://int-app-dev-practical-17.herokuapp.com/>

## Resources

- [Material Design for Bootstrap](#)
- [Material Design for Bootstrap - npm](#)
- [React router DOM](#)
- [React router DOM - npm](#)