

## Module 7 - Description

Tested on both the systems below-

Macbook Pro (13 inch, 2017, Two Thunderbolt 3 ports)

Operating system: mac Catalina (10.15.7)

Processor: 2.3 GHz Dual-Core Intel Core i5

Memory 8GB 2133 MHz LPDDR3

Graphics Intel Iris Plus Graphics 540 1536 MB

Safari Version 14.0

Terminal 2.1.0

Operating system: Windows 10 home (20H2) – created on this system

OS build:19042.662

Experience: Windows feature experience pack 120.2212.551.0

HP ENVY X360 convertible 15-DS1XXX

Processor AMD Rizen 5 4500U with Radeon graphics 2.38GHz

Memory 16GB

Browser version: Microsoft edge (87.0.664.57)

Tested using windows CMD terminal

**TypeScript – 4.1.2**

**Node.js version (v14.15.1)**

Compilation of .jsx files to .js files depends on having done beforehand

1. npm install --save-dev @babel/core @babel/cli
2. npm install --save-dev @babel/preset-env
3. npm install @babel/preset-react --save-dev
4. npm install --save-dev @babel/plugin-proposal-class-properties

There must be a .babelrc file with atleast following contents:

```
{
  "presets": [ "@babel/preset-react" ],
  "plugins": [ "@babel/plugin-proposal-class-properties" ]
}
```

To compile mainEdited.jsx file to mainEdited.js file type command **npx babel mainEdited.jsx --out-file mainEdited.js**

**React file: mainEdited.js**

All the react code is written in this file. Its main purpose is to keep a **src** of an image as state, and to cycle through a pre-determined list of images, as we press the View Course Images button. This emulates showing a portfolio of course images to clients.



```
<h2> View Class Photos</h2>

<p> Browse here to see the class photos.</p>

</article>
```

Expected behaviour:

1. On opening mainpage.html with a browser, it shows the main courses page and presents a button at the bottom left allowing the user to click and browse through course photos.

**React features used:**

1. We are maintaining state of the React component using state variables of src and imagenumber. We also update the state on button click.
2. We only update part of the html page on button click, not the whole UI, which makes It very swift.
3. We are passing props/properties to React components to set their values with HTML elements. In our case this is title, src.
4. We are compiling JSX into JS using babel and simplifying React development.

### Screenshot of mainpage.html



