# Module 2 Labs

## Part 1 - Web skills

### **CSS-1** | Responsive CSS

* **CSS-1a** - [Example: Media queries](https://stackblitz.com/edit/css-example-media-queries?file=styles.css)
* **CSS-1b** - [Exercise: A responsive layout](https://stackblitz.com/edit/css-exercise-responsive-layout?file=exercise.css)

### **JS-1** | Let vs const

* **JS-1a** - [Exercise: Let vs const](https://stackblitz.com/edit/js-exercise-let-vs-const?devToolsHeight=33&file=index.js)

### **JS-2** | Arrow functions

* **JS-2a** - [Exercise: Arrow functions](https://stackblitz.com/edit/js-exercise-arrow-functions?devToolsHeight=33&file=index.js)

### **JS-3** | Destructuring

* **JS-3a** - [Example: Array destructuring](https://stackblitz.com/edit/js-example-array-destructuring?devToolsHeight=33&file=index.js)
* **JS-3b** - [Exercise: Array destructuring](https://stackblitz.com/edit/js-exercise-array-destructuring?devToolsHeight=33&file=index.js)
* **JS-3c** - [Example: Object destructuring](https://stackblitz.com/edit/js-example-object-destructuring?file=index.js)
* **JS-3d** - [Exercise: Object destructuring](https://stackblitz.com/edit/js-exercise-object-destructuring?devToolsHeight=33&file=index.js)

### **JS-4** | Ternary operator

* **JS-4a** - [Exercise: Ternary operator](https://stackblitz.com/edit/js-exercise-ternary-operator?devToolsHeight=33&file=index.js)

### **JS-5** | Callbacks

* **JS-5a** - [Exercise: Callbacks](https://stackblitz.com/edit/js-exercise-callbacks?devToolsHeight=33&file=index.js)
* **JS-5b** - [Example: Arrow functions as callbacks](https://stackblitz.com/edit/js-example-arrow-functions-as-callbacks?devToolsHeight=33&file=index.js)

### **JS-6** | Array filter()

* **JS-6a** - [Exercise: Array filter()](https://stackblitz.com/edit/js-exercise-array-filter?devToolsHeight=33&file=index.js)

### **JS-7** | Array map()

* **JS-7a** - [Exercise: array map()](https://stackblitz.com/edit/js-exercise-array-map?devToolsHeight=33&file=index.js)

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## Part 2 - React

### **React-1** | Components

* **React-1a** - [Example: A static page in React](https://stackblitz.com/edit/react-example-static-page?file=src/App.jsx)
* **React-1b** - [Exercise: Making your own components](https://stackblitz.com/edit/react-exercise-making-your-own-components?file=src/App.jsx)
* **React-1c** - [Exercise: Placing components in separate files](https://stackblitz.com/edit/react-exercise-placing-components-in-separate-files?file=src/App.jsx)
* **React-1d** - [Example: Embedding JavaScript expressions in JSX](https://stackblitz.com/edit/react-example-javascript-expressions-in-jsx?file=src/App.jsx)

### **React-2** | Props

* **React-2a** - [Exercise: Create a reusable component with props](https://stackblitz.com/edit/react-exercise-create-a-reusable-component-with-props?file=src/App.jsx)
* **React-2b** - [Example: The children prop](https://stackblitz.com/edit/react-example-children-prop?file=src/App.jsx)

### **React-3** | Conditional rendering

* **React-3a** -[Example: Conditional rendering](https://stackblitz.com/edit/react-example-conditional-rendering?file=src/App.jsx)
* **React-3b** - [Exercise: Conditional rendering](https://stackblitz.com/edit/react-exercise-conditional-rendering?file=src/App.jsx)

### **React-4** | Rendering lists

* **React-4a** -[Exercise: Render a list from data](https://stackblitz.com/edit/react-exercise-render-a-list-from-data?file=src/App.jsx)

### **React-5** | React Router basics

* **React-5a** - [Example: Simple static routing](https://stackblitz.com/edit/react-example-simple-static-routing?file=src/App.jsx)
* **React-5b** -[Exercise: Use React router to set up static routing](https://stackblitz.com/edit/react-exercise-use-react-router-static-routing?file=src/App.jsx)

### **React-6** | Component-scoped styling

* **React-6a** - [Example: CSS Modules](https://stackblitz.com/edit/example-css-modules?file=src/App.jsx)

### **React-7** | Handling events

* **React-7a** - [Example: Events in JSX](https://stackblitz.com/edit/react-example-events-in-jsx?devToolsHeight=33&file=src/App.jsx)
* **React-7b** -[Exercise: Event handling](https://stackblitz.com/edit/react-exercise-event-handling?file=src/App.jsx)

### **React-8** | State

* **React-8a** - [Example: The need for state](https://stackblitz.com/edit/react-example-need-for-state?devToolsHeight=60&file=src/App.jsx)
* **React-8b** - [Example: State solves the problem](https://stackblitz.com/edit/react-example-state-solves-the-problem?file=src/App.jsx)
* **React-8c** - [Exercise: Powers of two app](https://stackblitz.com/edit/react-exercise-powers-of-two-app?file=src/App.jsx)
* **React-8d** - [Example: Changing state based on previous state](https://stackblitz.com/edit/react-example-changing-state-based-on-previous-state?file=src/App.jsx)

### **React-9** | Inverse data flow

* **React-9a** - [Exercise: Inverse data flow](https://stackblitz.com/edit/react-exercise-inverse-data-flow?file=src/App.jsx)

### **React-10** | useEffect

* **React-10a** - [Exercise: useEffect dependency array](https://stackblitz.com/edit/react-exercise-useeffect-dependency-array?file=src/App.jsx)

### **React-11** | Using external data

* **React-11a** - [Example: Fetch external data on load](https://stackblitz.com/edit/react-example-fetch-external-data-on-load?file=src/App.jsx)

### **React-12** | Context

* **React-12a** - [Example: Setting up Context](https://stackblitz.com/edit/react-example-setting-up-context?file=src/App.jsx)
* **React-12b** - [Example: To-do list with Context](https://stackblitz.com/edit/react-example-context?file=src/App.jsx)
* **React-12c** - [Exercise: Using Context](https://stackblitz.com/edit/react-exercise-using-context?file=src/App.jsx)