Initializing the Application

This lesson helps you set up the React environment required to build our app.

WE'LL COVER THE FOLLOWING ^

Loading the Framework

Loading the Framework

Let's get started with building our application using **React** and **Firebase**!

The application we are going to build can be set up with **Facebook's official React boilerplate** project - create-react-app. You can install it globally using the command line or terminal by following the code snippet given below, after which it becomes available whenever you need it.

```
npm install -g create-react-app
```

After you are done with the installation, you can create your project using create-react-app and name it whatever you want. In this course, we are naming the project react-firebase-authentication. You can navigate into the project folder using the cd command.

```
create-react-app react-firebase-authentication
cd react-firebase-authentication
```

You can use the following command on your command line to start your application, after which you will be able to access it in the browser.

Now, we'll set up the project according to our requirements. First, we will get rid of files that were automatically downloaded from the *boilerplate React* project as we won't be using them. On the command line, navigate to your **src**/folder using the cd command and then use the rm command to remove the following files from your folder.

```
cd src
rm App.js App.test.js App.css logo.svg
```

Second, create a folder and name it **components** in your application's **src** folder using the **mkdir** command on the command line. We will implement all the components in this folder including the *App component* that we removed in the previous step.

```
mkdir components
```

Now that you have created the **components** folder, navigate into it using the cd command and create a dedicated folder for each component that we will be implementing for this application.

There are a total of **13 components** that we will be implementing for this application and they are as follows:

- Account
- Admin
- App
- Home
- Landing
- SignIn
- SignOut
- SignUp
- Navigation
- PasswordChange
- PasswordForget

- Session
- Firebase

Hence, a folder will be created for each of them. For the sake of readability, we have divided the commands into multiple lines:

```
cd components
mkdir Account Admin App Home Landing SignIn SignOut SignUp
mkdir Navigation PasswordChange PasswordForget
mkdir Session Firebase
```

In each folder, we will create an index.js file for the component. To do this, follow the instructions below:

- 1. Navigate into the **components** folder using the cd command
- 2. Create the index.js file using the touch command
- 3. Navigate out to the **components** folder using the cd.. command.

Repeat these steps for each component as shown in the code snippet below. Also, note that you can choose to name your *folders or files* differently, but these are the names we will be using in this course.

```
cd App
touch index.js
cd ..
```

Next, we will implement a basic **React component** for each *component file* that we created. For example, for the **App component**:

- Navigate into the src/components/App directory
- Open the index.js file

The file will probably look like this:

There is an index. js file in your original src folder. Open that file and fix the

relative path to the **App component** since you moved the **App component** to the src/components folder. To fix the path, you need to add the /components subpath to it as you can see in the code snippet below.

```
import React from 'react';
import ReactDOM from 'react-dom';
import './index.css';
import * as serviceWorker from './serviceWorker';
import App from './components/App';
ReactDOM.render(<App />, document.getElementById('root'));
serviceWorker.unregister();
```

Then, create one more folder, **constants**, in your **src** folder as shown in the code below.

```
mkdir constants
```

The folder will be located next to the **components** folder in the **src** directory. Now, navigate into the constants folder and create 2 files: First, for the application's routing routes.js; Second, for the roles management roles.js.

```
cd constants
                                                                                     touch routes.js roles.js
cd ..
```

Congratulations! Your application with all its folders and files is now set up. Go to the next lesson to verify and run the app on our live terminal!