**Start Project:**

1. Install Node.js

Check nodes: node -v

1. Install NPM

Cmd install: npm install -g npm

Check npm: npm -v

1. Globally React install

Cmd install: npm install -g create-react-app

Check: create-react-app –version

1. Globally install react creating app

Cmd: create-react-app xxxxxxx

Cmd: npm init react-app xxxxxxx

1. Direct Install or Create your react app

Cmd: npx create-rect-app xxxxxxxx (npx means the nove module will be above the version)

Cmd: npx create-react-app . (to create app in the same directory without creating a new folder)

1. Run the react app

Cmd: npm start

**Configure project**

1. Delete all files inside src except Apps.js, Index.css y index.js
2. Delete all content of index.css.
3. Write the following codes:

In index.js write the following:

**import** React **from** 'react';

**import** ReactDOM **from** 'react-dom';

**import** './index.css';

**import** App **from** './App';

ReactDOM.render(

    <**App** />,

  document.getElementById('root')

);

In App.js write the following:

**function** App() {

**return** (

    <**div**>

      <**h1**>App</**h1**>

    </**div**>

  );

}

**export** **default** App;

1. Check if the project still runs:

Cmd: npm start

Imagen que contiene Forma

Descripción generada automáticamente

**Add dependencies:**

1. Open package.json to check the dependencies loaded.

Interfaz de usuario gráfica, Texto

Descripción generada automáticamente

1. Add the dependency React Router DOM <https://reactrouter.com/> <https://www.npmjs.com/package/react-router> by writing in the command line: npm install react-router-dom@6
2. To include the social media icons, you’ll use a package called react-font-awesome, which provides Font Awesome support for React. You’ll need these three packages:

* @fortawesome/react-fontawesome
* @fortawesome/fontawesome-svg-core
* @fortawesome/free-brands-svg-icons

Install these with the following command:

npm install --save @fortawesome/react-fontawesome @fortawesome/fontawesome-svg-core @fortawesome/free-brands-svg-icons

1. Add the Google Maps API dependency to insert maps in the react application.

npm install --save google-maps-react

**Add Bootstrap styles:**

There are 3 options: To add bootstrap from https://getbootstrap.com; to get the react bootstrap <https://react-bootstrap.github.io/> o el bootstrap cdn <https://www.bootstrapcdn.com/>

1. Install bootstrap from https://getbootstrap.com/docs/5.1/getting-started/download/

npm install bootstrap

1. Go to the rute of node\_modules\bootstrap\dist\css\bootstrap.min.css, click with mouse left button and click on copy path. Then past this path into the import sentence on index.js file.

**import** 'node\_modules\bootstrap\dist\css\bootstrap.min.css';

1. On the get starting, we will find more links to include as the poopers, bungle, Js, etc. Go to find those files into the installation files, and import the link.

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

**import** 'node\_modules\bootstrap\dist\js\bootstrap.bundle.min.js';

1. Change the direction on the bars of both importations.

**import** 'bootstrap/dist/css/bootstrap.min.css';

**import** 'bootstrap/dist/js/bootstrap.bundle.min.js';

**Structure the project:**

1. Build the following structure inside src folder:

Interfaz de usuario gráfica

Descripción generada automáticamente con confianza baja

1. Go into each file: Home.js; About.js and Contacts.js and construct the component writing rfc + enter to get a template.

**import** React **from** 'react'

**export** **default** **function** Home() {

**return** (

        <**div**>

        </**div**>

    )

}

1. Inside the return sentence, write the following bootstrap template:

        <**div** className**=**"container">

            <**div** className**=**"card mt-4">

                <**div** className**=**"card-body">

                    <**h2**>Home Page</**h2**>

                </**div**>

            </**div**>

        </**div**>

1. Repete this process for each of the pages.

**Build the Navbar**

1. Go to bootstrap webpage and look for the code of Navbar component and copy it. Paste this code into the Navbar.js page inside the div tags of function return sentence.

<https://getbootstrap.com/docs/5.1/components/navbar/>

Check if there are some syntax errors in the code.

**import** React **from** 'react'

**export** **default** **function** Navbar() {

**return** (

        <**div**>

            <**nav** class**=**"navbar navbar-expand-lg navbar-light bg-light">

                <**div** class**=**"container-fluid">

                    <**a** class**=**"navbar-brand" href**=**"#">Navbar</**a**>

                    <**button** class**=**"navbar-toggler" type**=**"button" data-bs-toggle**=**"collapse" data-bs-target**=**"#navbarSupportedContent" aria-controls**=**"navbarSupportedContent" aria-expanded**=**"false" aria-label**=**"Toggle navigation">

                        <**span** class**=**"navbar-toggler-icon"></**span**>

                    </**button**>

                    <**div** class**=**"collapse navbar-collapse" id**=**"navbarSupportedContent">

                        <**ul** class**=**"navbar-nav me-auto mb-2 mb-lg-0">

                            <**li** class**=**"nav-item">

                                <**a** class**=**"nav-link active" aria-current**=**"page" href**=**"/">Home</**a**>

                            </**li**>

                            <**li** class**=**"nav-item">

                                <**a** class**=**"nav-link" href**=**"#">Link</**a**>

                            </**li**>

                            <**li** class**=**"nav-item dropdown">

                                <**a** class**=**"nav-link dropdown-toggle" href**=**"#" id**=**"navbarDropdown" role**=**"button" data-bs-toggle**=**"dropdown" aria-expanded**=**"false">

            Dropdown

                                </**a**>

                                <**ul** class**=**"dropdown-menu" aria-labelledby**=**"navbarDropdown">

                                    <**li**><**a** class**=**"dropdown-item" href**=**"#">Action</**a**></**li**>

                                    <**li**><**a** class**=**"dropdown-item" href**=**"#">Another action</**a**></**li**>

                                    <**li**><**hr** class**=**"dropdown-divider"/></**li**>

                                    <**li**><**a** class**=**"dropdown-item" href**=**"#">Something else here</**a**></**li**>

                                </**ul**>

                            </**li**>

                            <**li** class**=**"nav-item">

                                <**a** class**=**"nav-link disabled">Disabled</**a**>

                            </**li**>

                        </**ul**>

                        <**form** class**=**"d-flex">

                            <**input** class**=**"form-control me-2" type**=**"search" placeholder**=**"Search" aria-label**=**"Search">

                            <**button** class**=**"btn btn-outline-success" type**=**"submit">Search</**button**>

                        </**form**>

                    </**div**>

                </**div**>

            </**nav**>

        </**div**>

    )

}

1. Delete part of the code of Navbar that is not needed and keep only what you need.

**import** React **from** 'react'

**export** **default** **function** Navbar() {

**return** (

        <**div**>

            <**nav** class**=**"navbar navbar-expand-lg navbar-light bg-light">

                <**div** class**=**"container-fluid">

                    <**a** class**=**"navbar-brand" href**=**"#">Navbar</**a**>

                    <**button** class**=**"navbar-toggler" type**=**"button" data-bs-toggle**=**"collapse" data-bs-target**=**"#navbarSupportedContent" aria-controls**=**"navbarSupportedContent" aria-expanded**=**"false" aria-label**=**"Toggle navigation">

                        <**span** class**=**"navbar-toggler-icon"></**span**>

                    </**button**>

                    <**div** class**=**"collapse navbar-collapse" id**=**"navbarSupportedContent">

                        <**ul** class**=**"navbar-nav me-auto mb-2 mb-lg-0">

                            <**li** class**=**"nav-item">

                                <**a** class**=**"nav-link active" aria-current**=**"page" href**=**"/">Home</**a**>

                            </**li**>

                            <**li** class**=**"nav-item">

                                <**a** class**=**"nav-link" href**=**"#">Link</**a**>

                            </**li**>

                        </**ul**>

                    </**div**>

                </**div**>

            </**nav**>

        </**div**>

    )

}

1. Apply router-dom to the Navbar by importing the Link and change all a tags to Link tags.

**import** React **from** 'react'

**import** { Link } **from** 'react-router-dom';

**export** **default** **function** Navbar() {

**return** (

        <**div**>

            <**nav** class**=**"navbar navbar-expand-lg navbar-light bg-light">

                <**div** class**=**"container-fluid">

                    <**Link** to**=**"/" class**=**"navbar-brand">Navbar</**Link**>

                    <**button** class**=**"navbar-toggler" type**=**"button" data-bs-toggle**=**"collapse" data-bs-target**=**"#navbarSupportedContent" aria-controls**=**"navbarSupportedContent" aria-expanded**=**"false" aria-label**=**"Toggle navigation">

                        <**span** class**=**"navbar-toggler-icon"></**span**>

                    </**button**>

                    <**div** class**=**"collapse navbar-collapse" id**=**"navbarSupportedContent">

                        <**ul** class**=**"navbar-nav me-auto mb-2 mb-lg-0">

                            <**li** class**=**"nav-item">

                                <**Link** to**=**"/" class**=**"nav-link active">Home</**Link**>

                            </**li**>

                        </**ul**>

                    </**div**>

                </**div**>

            </**nav**>

        </**div**>

    )

}

1. Change to ms-auto to put the navbar on the right
2. Add the Links to the other pages:

**import** React **from** 'react'

**import** { Link } **from** 'react-router-dom';

**export** **default** **function** Navbar() {

**return** (

        <**div**>

            <**nav** class**=**"navbar navbar-expand-lg navbar-light bg-light">

                <**div** class**=**"container-fluid">

                    <**Link** to**=**"/" class**=**"navbar-brand">ACE - Aire Comprimido Eficiente</**Link**>

                    <**button** class**=**"navbar-toggler" type**=**"button" data-bs-toggle**=**"collapse" data-bs-target**=**"#navbarSupportedContent" aria-controls**=**"navbarSupportedContent" aria-expanded**=**"false" aria-label**=**"Toggle navigation">

                        <**span** class**=**"navbar-toggler-icon"></**span**>

                    </**button**>

                    <**div** class**=**"collapse navbar-collapse" id**=**"navbarSupportedContent">

                        <**ul** class**=**"navbar-nav ms-auto mb-2 mb-lg-0">

                            <**li** class**=**"nav-item">

                                <**Link** to**=**"/" class**=**"nav-link active">Home</**Link**>

                            </**li**>

                            <**li** class**=**"nav-item">

                                <**Link** to**=**"/about" class**=**"nav-link active">About Us</**Link**>

                            </**li**>

                            <**li** class**=**"nav-item">

                                <**Link** to**=**"/contact" class**=**"nav-link active">Contact Us</**Link**>

                            </**li**>

                        </**ul**>

                    </**div**>

                </**div**>

            </**nav**>

        </**div**>

    )

}

**Route Pages**

1. Go to Apps.js and include these pages

**import** React **from** 'react';

**import** { BrowserRouter **as** Router} **from** 'react-router-dom';

**import** Navbar **from** './components/inc/Navbar';

**import** Home **from** './components/pages/Home';

**import** About **from** './components/pages/About';

**import** Contact **from** './components/pages/Contact';

**function** App() {

**return** (

    <**Router**>

        <**div**>

            <**Navbar** />

            <**Home** />

            <**About** />

            <**Contact** />

        </**div**>

    </**Router**>

  );

}

**export** **default** App;

1. Press ctrl + space to import the component **import** Contact **from** './components/pages/Contact';
2. Go again to App.js and create some routes like the following:

**import** React **from** 'react';

**import** { BrowserRouter **as** Router, Route, Routes} **from** 'react-router-dom';

**import** Navbar **from** './components/inc/Navbar';

**import** Home **from** './components/pages/Home';

**import** About **from** './components/pages/About';

**import** Contact **from** './components/pages/Contact';

**function** App() {

**return** (

    <**Router**>

        <**div**>

            <**Navbar** />

            <**Routes**>

                <**Route** path**=**"about" element**=**{<**About** />} />

                <**Route** path**=**"contact" element**=**{<**Contact** />} />

                <**Route** path**=**"/" element**=**{<**Home** />} />

            </**Routes**>

        </**div**>

    </**Router**>

  );

}

**export** **default** App;

**Footer :**

1. Go to Footer.js and introduce this code :

**import** React **from** 'react';

**import** { Link } **from** 'react-router-dom';

**export** **default** **function** Footer() {

**return** (

        <**div**>

            <**section** className**=**"section footer bg-dark text-white">

                <**div** className**=**"container">

                    <**div** className**=**"row">

                        <**div** className**=**"col-md-4">

                            <**h6**>Company Information</**h6**>

                            <**hr**/>

                            <**p** className**=**"text-white">

                                Bla bla bla

                            </**p**>

                        </**div**>

                        <**div** className**=**"col-md-4">

                            <**h6**>Quick Links</**h6**>

                            <**hr**/>

                            <**div**><**Link** to**=**"/">Home</**Link**></**div**>

                            <**div**><**Link** to**=**"/about">About Us</**Link**></**div**>

                            <**div**><**Link** to**=**"/contact">Contact</**Link**></**div**>

                            <**div**><**Link** to**=**"/">Home</**Link**></**div**>

                        </**div**>

                        <**div** className**=**"col-md-4">

                            <**h6**>Contact Information</**h6**>

                            <**hr**/>

                            <**div**><**p** className**=**"text-white mb-1">Direccion</**p**></**div**>

                            <**div**><**p** className**=**"text-white mb-1">Telf</**p**></**div**>

                            <**div**><**p** className**=**"text-white mb-1">Diremobile</**p**></**div**>

                            <**div**><**p** className**=**"text-white mb-1">email</**p**></**div**>

                        </**div**>

                    </**div**>

                </**div**>

            </**section**>

        </**div**>

    )

}

**Social Icons :**

1. Look for the social media icons in <https://fontawesome.com/v6.0/icons?m=free>

**Contact Form:**

1. Write the form code the following way

**import** React **from** 'react'

**export** **default** **function** Contact() {

**return** (

        <**div**>

            <**section** className**=**"section">

                <**div** className**=**"container">

                    <**div** className**=**"card shadow">

                        <**div** className**=**"card-body">

                            <**div** className**=**"row">

                                <**div** className**=**"col-md-6 border-left">

                                    <**div**>

                                        <**h6**>Contact Form</**h6**>

                                    </**div**>

                                    <**hr** />

                                    <**div** data-form-alert**=**"true"></**div**>

                                    <**form** action**=**"https://formsubmit.co/info@ACE-Aire.com" method**=**"POST" data-form-title**=**"CONTACT FORM">

                                        <**div** className**=**"form-group">

                                            <**label** className**=**"mb-1">Full Name</**label**>

                                            <**input** type**=**"text" className**=**"form-control" name**=**"name" required**=**"" placeholder**=**"Nombre\*" data-form-field**=**"Name" />

                                        </**div**>

                                    <**div** className**=**"form-group">

                                        <**label** className**=**"mb-1">Phone Number</**label**>

                                        <**input** type**=**"tel" class**=**"form-control phone" name**=**"phone" placeholder**=**"Telefono" data-form-field**=**"Phone" />

                                    </**div**>

                                    <**div** className**=**"form-group">

                                        <**label** className**=**"mb-1">Email Adress</**label**>

                                        <**input** type**=**"email" class**=**"form-control email" name**=**"email" required**=**"" placeholder**=**"Email\*" data-form-field**=**"Email" />

                                    </**div**>

                                    <**div** className**=**"form-group">

                                        <**label** className**=**"mb-1">Message</**label**>

                                        <**textarea** class**=**"form-control message" name**=**"message" placeholder**=**"Type your message..." rows**=**"7" data-form-field**=**"Message"></**textarea**>

                                    </**div**>

                                    <**div** className**=**"form-group py-3">

                                        <**label** className**=**"mb-1">Message</**label**>

                                        <**button** type **=**"submit" className**=**"btn btn-primary shadow w-100">Send Message</**button**>

                                    </**div**>

                                    </**form**>

                                </**div**>

                                <**div** className**=**"col-md-6 border-start">

                                    <**h5**>Address Information</**h5**>

                                    <**div** className**=**"underline"></**div**>

                                    <**p**>

                                        Direction

                                    </**p**>

                                    <**p**>

                                        Phone

                                    </**p**>

                                    <**p**>

                                        Email

                                    </**p**>

                                </**div**>

                            </**div**>

                        </**div**>

                    </**div**>

                </**div**>

            </**section**>

        </**div**>

    )

}

1. Configure the email sent on <https://formsubmit.co/>
2. Activate the email sent following the instructions gotten from <https://formsubmit.co/>
3. Create a thanks page to get feedback from the form filled in.
4. Send an automatic email confirming you are taking care of the message sent.

**Insert Map**

1. Import google-maps-react writing the following code in the page you want to load a map

import { Map, GoogleApiWrapper } from 'google-maps-react';

1. Add the Map Component to your render function!

render() {

return (

<Map

google={this.props.google}

zoom={8}

style={mapStyles}

initialCenter={{ lat: 47.444, lng: -122.176}}

/>

);

}

1. Edit your export default statement

export default GoogleApiWrapper({

apiKey: 'TOKEN HERE'

})(MapContainer);

Make sure to insert your API key here!

1. Add styling

If you'd like you can change some style properties. I did as a constant variable outside of my class.

const mapStyles = {

width: '100%',

height: '100%',

};

1. Spin up your server!

google-maps-API

Great! You did it! But honestly, what is the point of a map without any markers! So let's add some!

1. Mark it up!

import { Map, GoogleApiWrapper, Marker } from 'google-maps-react';

Update your Map component to include a Marker Component!

render() {

return (

<Map

google={this.props.google}

zoom={8}

style={mapStyles}

initialCenter={{ lat: 47.444, lng: -122.176}}

>

<Marker position={{ lat: 48.00, lng: -122.00}} />

</Map>

);

}

Then you'll have this!

google-map-with-marker

Let's add more!

Instead of adding one marker, you can programmatically loop through the state to display places. In my example, I am displaying a few thrift stores in the area. You can also add events to them such as onClick!

export class MapContainer extends Component {

constructor(props) {

super(props);

this.state = {

stores: [{lat: 47.49855629475769, lng: -122.14184416996333},

{latitude: 47.359423, longitude: -122.021071},

{latitude: 47.2052192687988, longitude: -121.988426208496},

{latitude: 47.6307081, longitude: -122.1434325},

{latitude: 47.3084488, longitude: -122.2140121},

{latitude: 47.5524695, longitude: -122.0425407}]

}

}

displayMarkers = () => {

return this.state.stores.map((store, index) => {

return <Marker key={index} id={index} position={{

lat: store.latitude,

lng: store.longitude

}}

onClick={() => console.log("You clicked me!")} />

})

}

render() {

return (

<Map

google={this.props.google}

zoom={8}

style={mapStyles}

initialCenter={{ lat: 47.444, lng: -122.176}}

>

{this.displayMarkers()}

</Map>

);

}

}

And that's all folks!

**Caroussel Component:**

1. Search for carousel into <https://getbootstrap.com/docs/5.1/components/carousel/> and look for the template code.
2. In this case, let’s choose the 3rd code and after creating the template react code with rfc+enter, paste this code inside the return sentence of the function.
3. Align everything and correct whatever syntax error exist.

**import** React **from** 'react'

**export** **default** **function** Slider() {

**return** (

        <**div**>

            <**div** id**=**"carouselExampleIndicators" class**=**"carousel slide" data-bs-ride**=**"carousel">

                <**div** class**=**"carousel-indicators">

                    <**button** type**=**"button" data-bs-target**=**"#carouselExampleIndicators" data-bs-slide-to**=**"0" class**=**"active" aria-current**=**"true" aria-label**=**"Slide 1"></**button**>

                    <**button** type**=**"button" data-bs-target**=**"#carouselExampleIndicators" data-bs-slide-to**=**"1" aria-label**=**"Slide 2"></**button**>

                    <**button** type**=**"button" data-bs-target**=**"#carouselExampleIndicators" data-bs-slide-to**=**"2" aria-label**=**"Slide 3"></**button**>

                </**div**>

                <**div** class**=**"carousel-inner">

                    <**div** class**=**"carousel-item active">

                        <**img** src**=**"..." class**=**"d-block w-100" alt**=**"..."/>

                    </**div**>

                    <**div** class**=**"carousel-item">

                        <**img** src**=**"..." class**=**"d-block w-100" alt**=**"..."/>

                    </**div**>

                    <**div** class**=**"carousel-item">

                        <**img** src**=**"..." class**=**"d-block w-100" alt**=**"..."/>

                    </**div**>

                </**div**>

                <**button** class**=**"carousel-control-prev" type**=**"button" data-bs-target**=**"#carouselExampleIndicators" data-bs-slide**=**"prev">

                    <**span** class**=**"carousel-control-prev-icon" aria-hidden**=**"true"></**span**>

                    <**span** class**=**"visually-hidden">Previous</**span**>

                </**button**>

                <**button** class**=**"carousel-control-next" type**=**"button" data-bs-target**=**"#carouselExampleIndicators" data-bs-slide**=**"next">

                    <**span** class**=**"carousel-control-next-icon" aria-hidden**=**"true"></**span**>

                    <**span** class**=**"visually-hidden">Next</**span**>

                </**button**>

            </**div**>

        </**div**>

    )

}

1. Import the images and link them in slider

**import** React **from** 'react';

**import** hospital **from** '../images/hospital.jpg';

**import** wood **from** '../images/wood.jpg';

**import** repair **from** '../images/repair.jpg';

**export** **default** **function** Slider() {

**return** (

        <**div**>

            <**div** id**=**"carouselExampleIndicators" class**=**"carousel slide" data-bs-ride**=**"carousel">

                <**div** class**=**"carousel-indicators">

                    <**button** type**=**"button" data-bs-target**=**"#carouselExampleIndicators" data-bs-slide-to**=**"0" class**=**"active" aria-current**=**"true" aria-label**=**"Slide 1"></**button**>

                    <**button** type**=**"button" data-bs-target**=**"#carouselExampleIndicators" data-bs-slide-to**=**"1" aria-label**=**"Slide 2"></**button**>

                    <**button** type**=**"button" data-bs-target**=**"#carouselExampleIndicators" data-bs-slide-to**=**"2" aria-label**=**"Slide 3"></**button**>

                </**div**>

                <**div** class**=**"carousel-inner">

                    <**div** class**=**"carousel-item active">

                        <**img** src**=**{hospital} class**=**"d-block w-100" alt**=**"..."/>

                    </**div**>

                    <**div** class**=**"carousel-item">

                        <**img** src**=**{wood} class**=**"d-block w-100" alt**=**"..."/>

                    </**div**>

                    <**div** class**=**"carousel-item">

                        <**img** src**=**{repair} class**=**"d-block w-100" alt**=**"..."/>

                    </**div**>

                </**div**>

                <**button** class**=**"carousel-control-prev" type**=**"button" data-bs-target**=**"#carouselExampleIndicators" data-bs-slide**=**"prev">

                    <**span** class**=**"carousel-control-prev-icon" aria-hidden**=**"true"></**span**>

                    <**span** class**=**"visually-hidden">Previous</**span**>

                </**button**>

                <**button** class**=**"carousel-control-next" type**=**"button" data-bs-target**=**"#carouselExampleIndicators" data-bs-slide**=**"next">

                    <**span** class**=**"carousel-control-next-icon" aria-hidden**=**"true"></**span**>

                    <**span** class**=**"visually-hidden">Next</**span**>

                </**button**>

            </**div**>

        </**div**>

    )

}

1. Import the slider into Home page

**import** React **from** 'react'

**import** Slider **from** '../inc/Slider';

**export** **default** **function** Home() {

**return** (

        <**div**>

            <**Slider** />

            <**div** className**=**"container">

                <**div** className**=**"card mt-4">

                    <**div** className**=**"card-body">

                        <**h2**>Home Page</**h2**>

                    </**div**>

                </**div**>

            </**div**>

        </**div**>

    )

}

**Content and Design:**

1. Navbar:

* Change all “class” to “className”
* Changing into dark navbar:

1. Home Page:

* Create 3 sections with titles and content:

            <**section** className**=**"section">

                <**div** className**=**"container">

                    <**div** className**=**"row">

                        <**div** className**=**"col-md-12 text-center">

                            <**h3** className**=**"main-heading">Our Company</**h3**>

                            <**div** className**=**"underline mx-auto"></**div**>

                            <**p**>bla bla bla</**p**>

                            <**Link** to**=**"/about" className**=**"btn btn-warning shadow">Read More</**Link**>

                        </**div**>

                    </**div**>

                </**div**>

            </**section**>

    <**div** className**=**"container">

      <**div** class**=**"card shadow">

        <**h1**>App</**h1**>

        <**div** class**=**"card-body">

          <**button** className**=**"btn btn-primary">Click Me</**button**>

        </**div**>

      </**div**>

    </**div**>

**Link y NavLink**

1. Create a folder inside src called components
2. Create a files inside this folder called: Navbar.js
3. In AppRouter.js file and between Router and Switch, we introduce the tag Navbar. <**Navbar** />
4. We come back to Navbar.js
5. Let’s import Link from react-router-dom: **import** { Link } **from** 'react-router-dom';
6. Now we can create the list of links in a way that each page doesn’t load all content and we have a one-single-application

**import** { Link } **from** 'react-router-dom';

**export** **default** **function** Navbar() {

**return** (

        <**nav**>

            <**ul**>

                <**li**>

                    <**Link** to**=**"/">Home</**Link**>

                </**li**>

                <**li**>

                    <**Link** to**=**"/about">About</**Link**>

                </**li**>

                <**li**>

                    <**Link** to**=**"/contact">Contact</**Link**>

                </**li**>

            </**ul**>

        </**nav**>

    )

}

1. Now we can go to index.css and put some styles in our page. We can add the style:

.active {

    background-color: red;

    color: white;

}

1. To make sure our Navbar.js component receives the styles from index.css, we should change “Link” by “NavLink” and add the class in the tag by activeClassName=”active”
2. To make sure each path has the correspondent style we should put “exact” before “to”.

**import** { Link, NavLink } **from** 'react-router-dom';

**export** **default** **function** Navbar() {

**return** (

        <**nav**>

            <**ul**>

                <**li**>

                    <**NavLink** exact to**=**"/" activeClassName**=**"active">Home</**NavLink**>

                </**li**>

                <**li**>

                    <**NavLink** exact to**=**"/about" activeClassName**=**"active">About</**NavLink**>

                </**li**>

                <**li**>

                    <**NavLink** exact to**=**"/contact" activeClassName**=**"active">Contact</**NLink**>

                </**li**>

            </**ul**>

        </**nav**>

    )

}

**Parámetros**

1. Create a file inside the pages folder called: ProfilePage.js
2. In AppRouter.js file lets add the ProfilePage route which will be variable according with the user so we put :username in front of the path.

<**Route** exact path**=**"/profile/:username" component**=**{ProfilePage}/>

**Querys**

1. Create a file inside the pages folder called: CategoriesPage.js
2. We the page writing rfc + enter, deleting the import sentence and adding a h1 tag sentence with the name of the page.
3. Add a new link in the navbar for categories.

   <**li**>

     <**NavLink** exact to**=**"/categories" activeClassName**=**"active">Categories</**NavLink**>

   </**li**>

1. Go to AppRouter.js and add a Route with the categories.

<**Route** exact path**=**"/categories" component**=**{CategoriesPage}/>

1. Go to CategoriesPage and write the following

**import** { useLocation, useHistory } **from** 'react-router-dom'

**export** **default** **function** CategoriesPage() {

**const** location **=** useLocation();

**const** history **=** useHistory();

**const** query **=** **new** URLSearchParams(location.search)

*// parseInt para pasar el valor a entero y así poder sumarlos más adelante*

**const** skip **=** parseInt(query.get("skip")) **||** 0

**const** limit **=** parseInt(query.get("limit")) **||** 15

**const** handleNext **=** () **=>** {

        console.log("Next")

*// if 2 parameters (skpi and limit)*

*//query.set("skip", 100)*

*//query.set("limit", 200)*

        query.set("skip", skip **+** limit)

        history.push({pathname: "/categories", search:query.toString()})

    }

**return** (

        <**div**>

            <**h1**>CategoriesPage</**h1**>

            <**h2**>Skip: {skip}</**h2**>

            <**h2**>Limit: {limit}</**h2**>

            <**button** onClick**=**{handleNext}>

                Next

            </**button**>

        </**div**>

    )

}

1. This way you can query 2 parameters: skip and limit

**Autenticación**

1. Create 4 pages: LoginPage; RegisterPage; DashboardPage ; and PaymentsPage
2. Build a rute to those pages in AppRouter.js
3. Create a link in Navbar for each of the pages
4. Now lets create a PrivateRoute.js fle at same level as AppRouter.js file change Route by PrivateRoute in AppRouter.js file for those pages which we want to limit the access. We will limit access in 2 pages:

<**PrivateRoute** exact path**=**"/dashboard" component**=**{DashboardPage}/>

<**PrivateRoute** exact path**=**"/payments" component**=**{PaymentsPage}/>

1. We come back to PrivateRoute.js and return the following propreties.

**import** { Route } **from** 'react-router-dom';

**export** **default** **function** PrivateRoute(props) {

**return** (

*<Route exact={props.exact} path={props.path} component={props.component} />*

    );

}

1. Now we can desestructure the props by putting the following:

**import** { Route } **from** 'react-router-dom';

**export** **default** **function** PrivateRoute(props) {

**return** (

        <**Route** {**...**props} />

    );

}

1. If user is loged in should keep at DashboardPage, else should redirect to LoginPage.

**export** **default** **function** PrivateRoute({ component: Component, **...**rest }) {

**return** <**Route** {**...**rest}>{user **?**  **:** <**Redirect** to**=**"/login" />}</**Route**>;

}

1. Now we check if the user is logged in. If it’s logged ingo to component, else go to login page.

**import** { Route, Redirect } **from** 'react-router-dom';

**const** user **=** null;

*//const user = {id: 1, username: "luis50"}*

**export** **default** **function** PrivateRoute({ component: Component, **...**rest }) {

**return** (

        <**Route** {**...**rest}>

            {user **?**  <**Component** /> **:** <**Redirect** to**=**"/login" />}

        </**Route**>

    );

}

1. Si le metemos un usuario quitando el comentario de *const user = {id: 1, username: "luis50"}* ya nos lleva al DashboardPage.