

Sign Out with React and Firebase

This lesson is the final step in building our application's authentication process.

WE'LL COVER THE FOLLOWING ^

- The Sign-Out Button
- Route Navigation

To complete the authentication loop, we have to implement the **sign-out component**. The component is just a button that appears within the **Navigation** component. Since we can use the previously-defined authentication API to sign out a user, passing functionality to a button in a React component is fairly straightforward.

The Sign-Out Button

Implement the `SignOutButton` component in the `src/components/ SignOut/index.js` file:

```
import React from 'react';

import { withFirebase } from '../Firebase';

const SignOutButton = ({ firebase }) => (
  <button type="button" onClick={firebase.doSignOut}>
    Sign Out
  </button>
);

export default withFirebase(SignOutButton);
```



SignOut/index.js

Route Navigation

The `SignOutButton` has access to the Firebase instance using the higher-order component again. Now, we'll use the `SignOutButton` in the **Navigation**

component in our `src/components/ Navigation/index.js` file:

```
import React from 'react';
import { Link } from 'react-router-dom';

import SignOutButton from '../SignOut';
import * as ROUTES from '../../constants/routes';

const Navigation = () => (
  <div>
    <ul>
      <li>
        <Link to={ROUTES.SIGN_IN}>Sign In</Link>
      </li>
      <li>
        <Link to={ROUTES.LANDING}>Landing</Link>
      </li>
      <li>
        <Link to={ROUTES.HOME}>Home</Link>
      </li>
      <li>
        <Link to={ROUTES.ACCOUNT}>Account</Link>
      </li>
      <li>
        <Link to={ROUTES.ADMIN}>Admin</Link>
      </li>
      <li>
        <SignOutButton />
      </li>
    </ul>
  </div>
);

export default Navigation;
```

Navigation/index.js

And there we have it. Everything is set to fulfill a full authentication round-trip. Users can sign-up (register), sign-in (login), and sign-out (log out).

Next, we'll run and verify if our app is working after the implementation of the Sign Out button.