

```
import React, { Component } from 'react';
import Particles from 'react-particles-js';
import Clarifai from 'clarifai';
import FaceRecognition from './components/FaceRecognition/FaceRecognition';
import Navigation from './components/Navigation/Navigation';
import Signin from './components/Signin/Signin';
import Register from './components/Register/Register';
import Logo from './components/Logo/Logo';
import ImageLinkForm from './components/ImageLinkForm/ImageLinkForm';
import Rank from './components/Rank/Rank';
import './App.css';
```

```
const app = new Clarifai.App({
  apiKey: 'c53612ac39434c7f8c424761b1645326'
});
```

```
const particlesOptions = {
  particles: {
    number: {
      value: 200,
      density: {
        enable: true,
        value_area: 800
      }
    }
  }
}
```

```
class App extends Component {
  constructor() {
    super();
    this.state = {
      input: "",
      imageUrl: "",
      box: {},
      route: 'signin',
      isSignedIn: false
    }
  }
}
```

```
calculateFaceLocation = (data) => {
  const clarifaiFace= data.outputs[0].data.regions[0].region_info.bounding_box;
  const image = document.getElementById('inputImage');
  const width = Number(image.width);
  const height = Number(image.height);
```

```

return {
  leftCol: clarifaiFace.left_col * width,
  topRow: clarifaiFace.top_row * height,
  rightCol: width - (clarifaiFace.right_col * width),
  bottomRow: height - (clarifaiFace.bottom_row * height),
}
}

displayFaceBox = (box) => {
  this.setState({box: box})
}

onInputChange = (event) => {
  this.setState({input: event.target.value});
}

onButtonSubmit = () => {
  this.setState({imageUrl: this.state.input})
  app.models
    .predict(
      Clarifai.FACE_DETECT_MODEL,
      this.state.input)
    .then(response => this.displayFaceBox(this.calculateFaceLocation(response)))
    .catch(err => console.log(err));
}

onRouteChange = (route) => {
  if (route === 'signout') {
    this.setState({isSignedIn: false})
  } else if (route === 'home') {
    this.setState({isSignedIn: true})
  }
  this.setState({route: route});
}

render() {
  const { isSignedIn, imageUrl, route, box } = this.state;
  return (
    <div className="App">
      <Particles className='particles'
        params={particlesOptions}
      />
      <Navigation isSignedIn={isSignedIn} onRouteChange={this.onRouteChange}/>
      { route === 'home'
        ? <div>
            <Logo />
            <Rank />

```

```

      <ImageLinkForm
        onInputChange={this.onInputChange}
        onSubmit={this.onSubmit}
      />
      <FaceRecognition box={box} imageUrl={imageUrl} />
    </div>
    : (
      route === 'signin'
      ? <Signin onRouteChange={this.onRouteChange}/>
      : <Register onRouteChange={this.onRouteChange}/>
    )
  }
</div>
);
}
}

```

```

export default App;

```