

Lesson 2: Exploring React Native

File Hierarchy, Flow and more

Karl Steven Velasco Orjalo

May 13, 2023

React Native Quickstart

Lesson Outline

1. React Native's Structure
2. Creating blank pages with Bottom Bar Navigation
3. Running React Native

React Native's Structure

Taking a look at myNewProject

Open up myNewProject with VSCode from Open Folder. We now see the standard structure of React Native.

Over the course of a project, we will mostly only be working with the following:

- `./App.js`

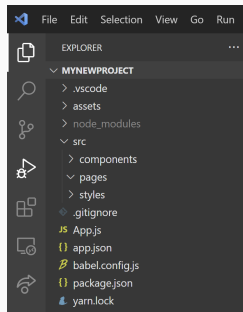
and additionally, create the following folders:

- `./src/pages/`
- `./src/components/`
- `./src/styles/`

That's it! (again, mostly.)

Taking a look at myNewProject (cont.)

Your project structure should now look like this:



Creating blank pages with Bottom Bar Navigation

Making two blank pages

First, under `./src/pages/`, create a file called `home.jsx`.

```
import React from 'react'
import {View, Text} from 'react-native'

const Home = () => {
  return (
    <View>
      <Text>This is the Home page.</Text>
    </View>
  )
}

export default Home
```

Making two blank pages (cont.)

Next, under `./src/pages/`, create a second file called `Account.jsx`.

```
import React from 'react'
import {View, Text} from 'react-native'

const Account = () => {
  return (
    <View>
      <Text>This is the Account page.</Text>
    </View>
  )
}

export default Account
```


Making a Bottom Bar Navigator

We will now make these two pages accessible to the user through a Bottom Bar. In `./App.js` enter the code shown in the next two slides.

```
import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";
import { NavigationContainer, StackActions } from "@react-navigation/native";
import { SafeAreaProvider } from "react-native-safe-area-context";

// Import pages
import Home from './src/pages/home';
import Account from './src/pages/account';

// Create the Bottom Tab
const Tab = createBottomTabNavigator();
```

Making a Bottom Bar Navigator (cont.)

```
const App = () => {  
  return (  
    // Avoid things like notches with SafeAreaProvider  
    <SafeAreaProvider>  
      <NavigationContainer>  
        <Tab.Navigator>  
          <Tab.Screen name = "Home" component={Home}></Tab.Screen>  
          <Tab.Screen name = "Account" component={Account}></Tab.Screen>  
        </Tab.Navigator>  
      </NavigationContainer>  
    </SafeAreaProvider>  
  );  
}  
  
export default App
```

Running React Native

Installing Dependencies/Libraries

Before we run our app, we had used external Dependencies in `./App.js`. We will now install them with Yarn in our Terminal.

```
1 $ yarn add @react-navigation/bottom-tabs  
2 $ yarn add @react-navigation/native  
3 $ yarn add react-native-safe-area-context
```

Running our app with Expo Go

With Expo Go installed on our phone through the App Store or Play Store, we are now ready to run our app. Enter the following command into your Terminal.

```
1 $ yarn expo start
```

Running our app with Expo Go (cont.)

You should now see a QR code printed into your Terminal. Scan it with Expo Go directly if you're on Android, else if you're on iOS use the Camera App.

End of Lesson

Questions? Reach out at: karlorjalo@gmail.com