

#### What we did:

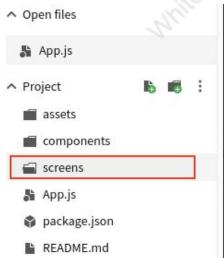
- Created Switch Navigation to move from one screen to another.
- Passed data from one screen to another.

## We revised the following:

- Creating a style for the components using StyleSheet.
- Creating independent components such as App Header, Buzzer Button, and how to export/import them in our files.

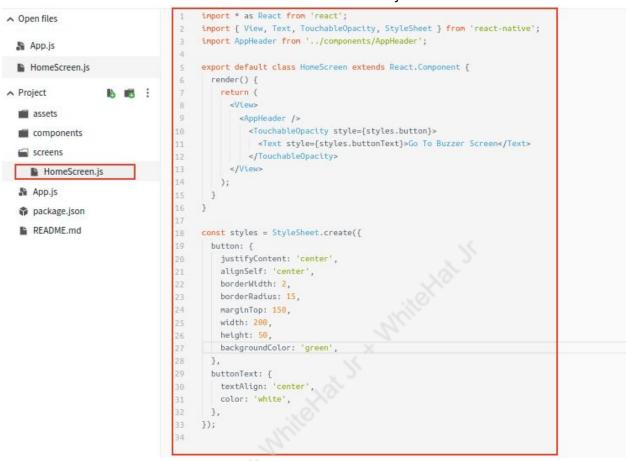
## How we did it:

Creating a multi-screen app: We created two screens as separate files and then call them in our app. We created a "screens" folder in our file directory that holds all the different screens in our app as separate files.





We created a screen/ file in the folder called "HomeScreen.js"



We created a 'BuzzerScreen.js' file in our screens folder.



```
import * as React from 'react';
      import { View, Text, TouchableOpacity, StyleSheet } from 'react-native';
 2
 3
      import AppHeader from '../components/AppHeader';
 4
      import SoundButton from '../components/SoundButton';
 5
 6
     export default class HomeScreen extends React.Component {
        render() {
 7
         return (
 8
 9
            <View>
10
              <AppHeader />
              <SoundButton />
11
            </View>
12
13
          );
14
15
16
```

We imported two more components in our App.js file -

- 'createSwitchNavigator': It will allow us to create our AppNavigator which we will use to navigate the screens.
- 'createAppContainer': It holds the two screens and our App Navigator together.

```
import * as React from 'react';
     import { View, Text, TouchableOpacity, StyleSheet } from 'react-native';
 2
 3
     import AppHeader from '../components/AppHeader';
     import SoundButton from '../components/SoundButton';
 4
 5
     export default class HomeScreen extends React.Component {
 6
       render() {
 7
         return (
 8
            <View>
 9
              <AppHeader />
10
              <SoundButton />
11
12
           </View>
13
          );
14
15
16
```



```
import * as React from 'react';
1
     import { View } from 'react-native';
2
     import HomeScreen from './screens/HomeScreen'
3
     import BuzzerScreen from './screens/BuzzerScreen'
4
5
     import { createAppContainer, createSwitchNavigator} from 'react-navigation';
6
     export default class App extends React.Component {
7
8
       render() {
         return (
9
10
           <View>
           </View>
11
12
         );
13
14
15
```

# We created SwitchNavigator' takes a JSON object

```
import * as React from 'react';
     import { View } from 'react-native';
2
     import HomeScreen from './screens/HomeScreen'
 3
     import BuzzerScreen from './screens/BuzzerScreen'
     import { createAppContainer, createSwitchNavigator} from 'react-navigation';
 5
 6
 7
     export default class App extends React.Component {
 8
       render() {
9
          return (
            <View>
10
            </View>
11
12
         );
13
14
15
16
     var AppNavigator = createSwitchNavigator({
17
       HomeScreen: HomeScreen,
18
19
       BuzzerScreen: BuzzerScreen
20
     })
21
```

We created the AppContainer using 'createAppContainer'.



```
import * as React from 'react';
import { View } from 'react-native';
import HomeScreen from './screens/HomeScreen'
import BuzzerScreen from './screens/BuzzerScreen'
import { createAppContainer, createSwitchNavigator} from 'react-navigation';
export default class App extends React.Component {
  render() {
   return (
      <View>
       <AppContainer />
    );
var AppNavigator = createSwitchNavigator({
 HomeScreen: HomeScreen,
  BuzzerScreen: BuzzerScreen
})
const AppContainer = createAppContainer(AppNavigator)
```

We passed the key name of the screen as an argument to 'props.navigation.navigate()'



```
import * as React from 'react';
     import { View, Text, TouchableOpacity,StyleSheet } from 'react-native';
2
3
     import AppHeader from '../components/AppHeader'
4
5
     export default class HomeScreen extends React.Component {
6
       goToBuzzerScreen=()=> {
7
            this.props.navigation.navigate('BuzzerScreen')
8
9
       render(){
10
         return(
11
            <View>
12
              <AppHeader/>
13
                <TouchableOpacity
14
                  style={styles.button}
15
                 onPress={this.goToBuzzerScreen}>
16
17
                  <Text style={styles.buttonText}>Go To Buzzer Screen</Text>
                </TouchableOpacity>
18
            </View>
19
20
21
22
23
24
25
     const styles = StyleSheet.create({
       button:{
26
```

We passed some random color to BuzzerScreen which we will use to create the color of the SoundButton.



```
import * as React from 'react';
     import { View, Text, TouchableOpacity,StyleSheet } from 'react-native';
2
     import AppHeader from '../components/AppHeader'
3
4
5
     export default class HomeScreen extends React.Component {
6
       goToBuzzerScreen=()=> {
7
            this.props.navigation.navigate('BuzzerScreen', {color:'blue'})
8
9
10
       render(){
         return(
11
12
           <View>
              <AppHeader/>
13
                <TouchableOpacity
14
15
                  style={styles.button}
                  onPress={this.goToBuzzerScreen}>
16
                  <Text style={styles.buttonText}>Go To Buzzer Screen</Text>
17
                </TouchableOpacity>
18
19
            </View>
20
21
22
23
24
     const styles = StyleSheet.create(
25
       button:{
26.
          justifyContent: 'center',
27
         alignSelf : 'center',
28
         borderWidth: 2,
```

Drotting



We created a prop called 'color' in our 'SoundButton'.

```
1
     import * as React from 'react';
     import { View, Text, TouchableOpacity, StyleSheet } from 'react-native';
 2
     import AppHeader from '../components/AppHeader'
 3
      import SoundButton from '../components/SoundButton'
 4
 5
 6
 7
     export default class HomeScreen extends React.Component {
        render(){
8
          return(
9
            <View>
10
11
              <AppHeader/>
             <SoundButton color={this.props.navigation.getParam('color')}/>
12
            </View>
13
14
        }
15
16
17
```

styles.button' and '{backgroundColor: this.props.color}' are objects passed to style prop inside an array.

```
import * as React from 'react';
△ Open files
                                        import { Text, View, TouchableOpacity, StyleSheet } from 'react-native';
                                       import {Audio} from 'expo-av';
  App.js
                                       class SoundButton extends React.Component {
  SoundButton.js
                                        playSound = async () => {
                                   6
  BuzzerScreen.js
                                   7
                                           await Audio.Sound.createAsync(
                                  8
                                           { uri: 'http://soundbible.com/mp3/Buzzer-SoundBible.com-188422102.mp3' },
  HomeScreen.js
                                  9
                                           { shouldPlay: true }
                                        );
                                  10
△ Project
                                  11
                                  13
                                         render() {
  components
                                  14
                                           return (
     AppHeader.js
                                             style={[styles.button,{backgroundColor:this.props.color}]}
     AssetExample.js
                                  17
                                               onPress={this.playSound}>
                                              <Text
    SoundButton.js
                                  18
                                  19
                                                style={styles.buttonText}>
  screens
                                                Press Me
                                               </Text>
     BuzzerScreen.js
                                             </TouchableOpacity>
     HomeScreen.js
                                           );
                                  24
  App.js
  package.json
                                       const styles = StyleSheet.create({
                                       button: {
   README.md
                                  28
                                           marginTop: 100.
                                  29
                                         marginLeft: 80,
```

#### What's next?:

In the next class, you will learn to identify who pressed the button first and our app will be almost done.

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