





What we did:

- Used Stylesheet to better name and use CSS styles.
- Exported and imported custom React Native components.
- Wrote structured code for each custom React Native component differently.

How we did it:

In this class, our task was to create a screen which would allow users to pick their team and then navigate to the buzzer button. We used a sheet to style the code as we do in HTML and CSS.

```
{ uri: 'http://soundblble.com/mp3/Buzzer-5
                                                                                                                     iOS Android Web
            { shouldPlay: true }
18
         );
       render() {
         return (
             style={{
                maroinLeft: 180.
18
                borderWidth: 1,
                borderColor: 'rgba(0,8,0,0.2)',
19
                alignItems: 'center',
                justifyContent: 'center',
                width: 288,
                height: 200,
                backgroundColor: 'red',
                borderRadius: 100
                                                                                                                              Press Me
26
              onPress={this.playSound}>
                style=({
38
                  fontWeight: 'bold',
                  fontSize: 20,
                Press Ne
              </Text>
            </TouchableOpacity>
```

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In react native, a good practice is to create a separate styles object using 'StyleSheet.create()' and use the declared styles inside the style prop of the component when rendering.

- First, we import the 'StyleSheet' component defined in React Native.
- Second, we use 'StyleSheet.create()' to create the different styles. The function expects a JSON object with different styles defined on them.
- Note: We use "const" to create a variable which we do not want to change while the program is running. Typically we do not want the style object to change during the program.
- We can call the styles.<name of the style> inside the style prop of a component to give a particular style to the React Native component.

```
import * as React from 'react';
 2 import ( Text, View, Button, TouchableOpacity, StyleSheet ) from 'react-native';
 import (Audio) from 'expo-av';
 5 class SoundButton extends React.Component {
       playSound = async () => {
 6
           await Audio.Sound.createAsync(
            { uri: 'http://soundbible.com/mp3/Buzzer-SoundBible.com-188422102.mp3' },
  8
 9
            { shouldPlay: true }
 16
          );
        render() {
         return (
           <TouchableOpacity
              style={{
               marginLeft: 180,
              margiller: 100,
borderWidth: 1,
borderColor: 'rgba(0,0,0,0,2)'
alignItems: 'center',
justifyContent: 'center',
width: 200,
height: 200,
backgroundColor: 'red',
borderRadius: 100,
 18
 19
 28
 24
 26
              onPress={this.playSound}>
              <Text
 28
            style={{
 29
                                                                                           Prettier {} Editor 🗱 🗄
```

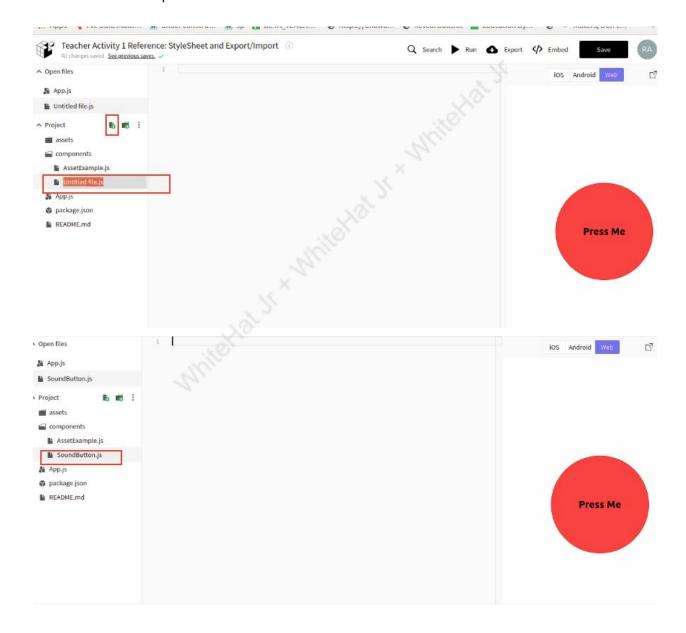


```
export default class App extends React.Component {
                                                                                                                                 ios
              render() {
                return (
      34
                                                                                                                   Press Me
                  <View>
                   <SoundButton />
:
                   </View>
      38
                );
              1
      39
      48
      41
            const styles = 5tyleSheet.create({
      42
      43
              button: {
      44
                narginTop: 200,
      45
                marginLeft: 100,
                borderWidth: 1,
      46
      47
                borderColor: 'rgba(0,0,0,0.2)',
                alignItens: 'center',
      48
                justifyContent: 'center',
      49
      58
                width: 200,
                height: 208,
                backgroundColor: 'red',
                borderRadius: 180,
              buttonText: (
                 fontWeight: 'bold',
                 fontSize: 20,
      58
      59
                                                                                                           iOS Android Web
        class SoundButton extends React.Component {
          playSound = async () => {
           awalt Audio.Sound.createAsync(
                                                     ndBible.com-188422102.np3' },
             { uri: 'http://soundbible.com
             { shouldPlay: true }
           );
          render() {
           return (
             <TouchableOpacity
             style={styles.button}
               onPress={this.playSound}>
               style={styles.buttonText}>
               </Text>
                                                                                                                   Press Me
             </TouchableOpacity>
        export default class App extends React.Component {
         render() (
   28
   29
           return (
   38
             <View>
              <SoundButton />
             </View>
                                                                          Prettier {} Editor 🌣 Expo v36.0.0 - Devices 🕕 Preview 🔵
```



We created different components in different files to keep things more organized and then import all the components in App.js to use them.

- Create a new file inside the components folder and call it 'SoundButton.js' (since it defines the SoundButton Component).
- Copy all the code for the 'SoundButton' component into this file.
- Import components from the libraries used for this component including react, expo-av, StyleSheet etc.
- Add an export statement export default SoundButton.
- This instruction allows the SoundButton component to be imported by default when we write 'import' statement in another file.





```
Teacher Activity 1 Reference: StyleSheet and Export/Import 

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                                             import * as React from 'react':

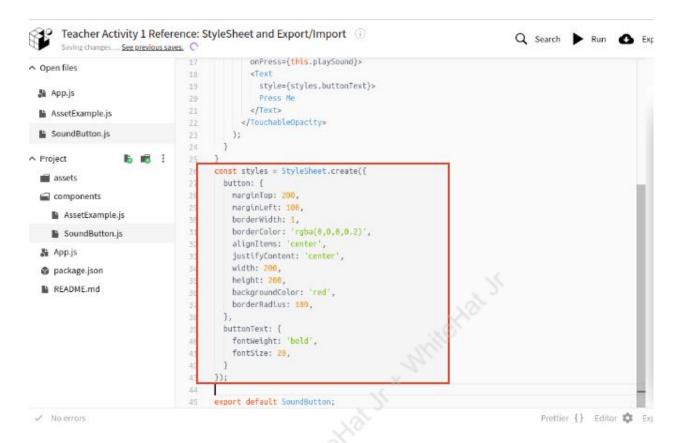
    Open files

                                             import { Text, View, Button, TouchableOpacity, StyleSheet } from 'react-native';
                                             import (Audio) from 'expo-av';
  & App.js
                                             class SoundButton extends React.Component {
   SoundButton.js
                                                playSound = async () => {
△ Project
                                                 await Audio.Sound.createAsync(
                                                   { uri: 'http://soundbible.com/mp3/Buzzer-SoundBible.com-188422102.mp3' },
   assets
                                        9
                                                   { shouldPlay: true }
                                       19
                                                 );
   components
                                               )
     AssetExample.js
                                               render() {
     SoundButton.js
                                                 return (
   & App.js
                                                   <TouchableOpacity
                                                     style={styles.button}
   a package.json
                                                     onPress=(this.playSound)>
   README.md
                                                      <Text
                                                       style={styles.buttonText}>
                                                       Press Me
                                                     </re>
                                                   </Pre>

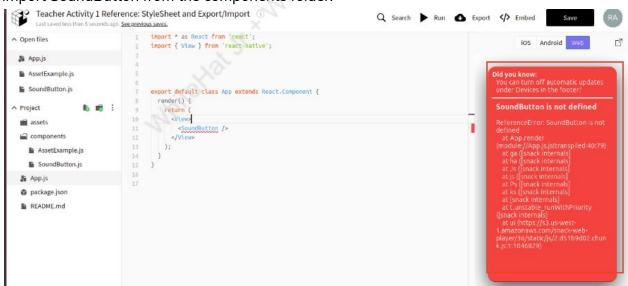
<
                                       26
                                             export default class App extends React.Component {
                                       28
                                               render() {
                                                return (
  ✓ No errors
                                                                                                                            Prettier {} Editor #
       Teacher Activity 1 Reference: StyleSheet and Export/Import 

                                                                                                                     Q Search
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       All changes saved . See previous saves. <
                                            import * as React from 'react';
△ Open files
                                            import ( Text, View, TouchableOpacity, StyleSheet ) from 'react-native';
                                            import (Audio) from 'expo-av';
  & App.js
  AssetExample.js
                                            class SoundButton extends React.Component {
                                               playSound = async () => {
  SoundButton.js
                                                 await Audio.Sound.createAsync(
                                                  { uri: 'http://soundbible.com/mp3/Buzzer-SoundBible.com-188422102.mp3' },
△ Project
                                                   { shouldPlay; true }
                                                1:
   assets
                                              }
  components
                                              render() {
     AssetExample.js
                                               return (
     SoundButton.js
                                                  <TouchableOpacity
                                      16
                                                    style={styles.button}
   App.is
                                                    onPress=(this.playSound)>
   package.json
                                      18
                                                      style=(styles.buttonText)>
   README.md
                                      28
                                                      Press Me
                                                    </Text>
                                                   </TouchableOpacity>
                                                35
                                      24
                                      26
                                            export default SoundButton;
```





Import SoundButton from the components folder.



PRO-C56





Create a component called AppHeader which gives a header to your app (with app name):

Write a component 'AppHeader.js'.

Import necessary components at the top.

Render the component inside the render() function.

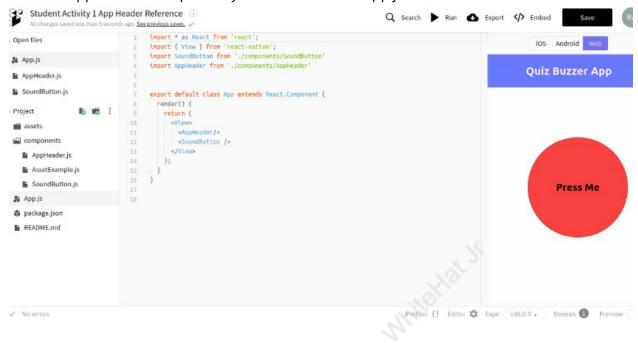
Create appropriate styling for it using StyleSheet

Export the class as the default export.

```
import * as React from 'react';
· Open files
                                                                                                                                             iOS Android
                                      import { Text, View, StyleSheet } from 'react-native';
 App.js
                                     class AppHeader extends React.Component{
                                                                                                                                          Quiz Buzzer App
                                       render(){
 AppHeader.js
                                           <View style= {styles.textContainer}>
· Project
                                           <Text style={styles.text}>Quiz Buzzer App</Text>
 components
   AppHeader.is
    AssetExample.js
                                     const styles = StyleSheet.create({
    SoundButton.is
                                       textContainer:{
                                         backgroundColor: 'blue',
 App.js
                                                                                                                                                  Press Me
 package.json
                                       text:{
                                18
                                       color: 'white',
                                19
 README.md
                                         padding: 20,
                                         fontSize: 22.
                                         fontWeight: 'bold',
                                         textAlign: 'center',
                                     export default AppHeader;
```



Use the 'AppHeader' component you created inside 'App.js' file.



What's next?:

In the next class, we will continue to work on the rest of the assigned tasks towards completing the Wireless Buzzer App. We will learn how to convert our single screen app to a two-screen app and how to navigate and pass information from one screen to another.