



What is our GOAL for this MODULE?

In this class, we learned to integrate the light theme into our storytelling app, so that the user's can choose between the light and dark themes as per their preference.

What did we ACHIEVE in the class TODAY?

- Created a light theme for our app.
- Integrated themes into the app so that users can choose the preferred one.

Which CONCEPTS/ CODING BLOCKS did we cover today?

• Changing themes using a toggle switch.



How did we DO the activities?

1. Head to the **firebase** database and change one of our user's themes to light for testing.

```
□ users
□ DxLkiH6NhHN71RX7f2cDDtXzEzs1
□ current_theme: "light"
□ first_name: "Apoorv"
□ gmail: "apoorvelous@gmail.com"
□ last_name: "Goyal"
□ locale: "en"
□ profile_picture: "https://lh3.googleusercontent.com/a-/A0h14GhMpU..."
```

2. Create a state called **light_theme** in our profile screen, which is true if the user has preferred light theme and false, if the user has preferred the dark theme.

Note: The changes are highlighted for reference purposes in the code snippets.

```
return (
              <View sty
                        =={this.state.light theme ? styles.containerLight :
                  <SafeAreaView style={styles.droidSafeArea} />
                  <View style={styles.appTitle}>
                     <View style={styles.appIcon}>
                         <Image source={require("../assets/logo.png")}</pre>
style={{ width: 60, height: 60, resizeMode: 'contain', marginLeft: 10
}}></Image>
                     </View>
                     styles.appTitleText}>
styles.appTitleTextLight
                             Story Telling App
                         </Text>
                     </View>
                  </View>
                  <View style={styles.screenContainer}>
```



```
<View style={styles.profileImageContainer}>
                            <Image source={{ uri: this.state.profile image }}</pre>
style={styles.profileImage}></Image>
                        </View>
                        <View style={styles.nameContainer}>
                            <Text style={this.state.light_theme</pre>
styles.nameTextLight
                       styles.nameText}>{this.state.name}</Text>
                        </View>
                        <View style={styles.themeContainer}>
                            <View style={styles.themeTextContainer}>
                                 <Text style={this.state.light theme</pre>
styles.themeTextLight : styles.themeText}>Dark Theme</Text>
                            </View>
                            <View style={styles.switchContainer}>
                                <Switch
                                     style={{ transform: [{ scaleX: 1.3 }, {
scaleY: 1.3 }] }}
                                     trackColor={{ false: "#767577", true:
this.state.light_theme ? "#eee" : "white"
                                            olor={this.state.isEnabled ? "#ee8249"
  "#f4f3f4"}
                                                           this.toggleSwitch() }
                                           { this.state.isEnabled}
```

3. Add styles to all the components declared in the **Profile.js** screen file.

```
const styles = StyleSheet.create({
    container: {
        flex: 1,
        backgroundColor: "#15193c"
    },
    containerLight: {
        flex: 1,
        backgroundColor: "white"
```



```
droidSafeArea: {
    marginTop: Platform.OS === "android" ? StatusBar.currentHeight : 0
appTitle: {
    flex: 0.07,
    flexDirection: "row",
    flexWrap: "wrap",
    padding: 5,
},
   fontSize: 28,
fontFamily: "Bubblegum-Sans",
paddingLeft: 20

tleTextLight: {
lor: "black",
ptSize: 28,
tFamil
appIcon: {
appTitleTextContainer: {
appTitleText: {
appTitleTextLight: {
    fontFamily: "Bubblegum-Sans",
    paddingLeft: 20
screenContainer: {
    flex: 0.85
profileImageContainer: {
    flex: 0.3,
    marginTop: 50,
    alignItems: "center"
profileImage: {
    width: 150,
    height: 150,
    borderRadius: 150 / 2,
```



```
},
  nameContainer: {
      flex: 0.1,
      alignItems: "center"
  },
  nameText: {
      color: "white",
      fontSize: 40,
      fontFamily: "Bubblegum-Sans",
                           Milia Hally X Milia Hally
  },
  nameTextLight: {
      color: "black",
      fontSize: 40,
      fontFamily: "Bubblegum-Sans",
  },
  themeContainer: {
      flexDirection: "row",
      justifyContent: "center",
      paddingTop: 80
  themeTextContainer: {
      alignItems: "center"
      flex: 0.5
  },
  themeText: {
      color: "whit
      fontSize: 30,
      fontFamily: "Bubblegum-Sans",
  },
  themeTextLight: {
      color: "black",
      fontSize: 30,
      fontFamily: "Bubblegum-Sans",
  },
  switchContainer: {
      justifyContent: "center",
      alignItems: "center"
});
```



- 4. Fetch the user to get their preferred theme in **FeedScreen.js**.
 - Import firebase.

```
import firebase from "firebase";
```

Add an extra state light_theme to our constructor.

```
constructor(props) {
    super(props);
    this.state = {
        fontsLoaded: false,
        light_theme: true
    };
}
```

• Create the fetchUser() function -

```
fetchUser = () => {
    let theme;
    firebase
        .database()
        .ref("/users/" + firebase.auth().currentUser.uid)
        .on("value", (snapshot) => {
            theme = snapshot.val().current_theme
            this.setState({ light_theme: theme === "light" })
      })
}
```

Call fetchUser() within the componentDidMount() function.

```
componentDidMount() {
    this._loadFontsAsync();
    this.fetchUser();
}
```

Update the render() function of the FeedScreen.js file.

```
render() {
```



```
if (!this.state.fontsLoaded) {
           return <AppLoading />;
       } else {
           return (
               <View style={this.state.light_theme</pre>
                    <SafeAreaView style={styles.droidSafeArea} />
                    <View style={styles.appTitle}>
                        <View style={styles.appIcon}>
                            <Image source={require("../assets/logo.png")}</pre>
style={{ width: 60, height: 60, resizeMode: 'contain', marginLeft: 10
}}></Image>
                        </View>
                        <View style={styles.appTitleTextContainer}>
                            <Text style={this.state.light them</pre>
styles.appTitleTextLight
                            styles.appTitleText}>
                                Storytelling App
                        </View>
                    </View>
                    <View style={styles.cardContainer}>
                        <FlatList</pre>
                            keyExtractor={this.keyExtractor}
                            data={stories}
                            renderItem={ this.renderItem}
```

Now change the styling for the **StoryCard** and our **Bottom Tab Navigator** by updating the **StoryCard** first.

5. Import **firebase**, add **light_theme** state to the **constructor()** and create a **fetchUser()** function and call it in **componentDidMount()** (similar to step 4) in **StoryCard**.



```
<View style={this.state.light_theme</pre>
styles.cardContainerLight : styles.cardContainer}>
                        <View style={styles.storyImage}>
                             <Image
source={require("../assets/story_image_1.png")}                               style={{ resizeMode: 'contain',
width: Dimensions.get('window').width - 60, height: 250, borderRadius: 10
}}></Image>
                        </View>
                        <View style={styles.titleContainer}>
                             <View style={styles.titleTextContainer}>
                                 <View style={styles.storyTitle}>
                                      <Text style={this.state.light theme</pre>
styles.storyTitleTextLight
styles.storyTitleText}>{this.props.story.title}</Text>
                                 </View>
                                 <View style={styles.storyAuthor}>
                                                  { this.state.light theme ?
styles.storyAuthorTextLight
styles.storyAuthorText}>{this.props.story.author}</Text>
                                 </View>
                        </View>
                        <View style={styles.descriptionContainer}>
                            <Text style={this.state.light_theme</pre>
styles.descriptionTextLight
                                styles.descriptionText}>
                                 { this.props.story.description}
                             </Text>
                        </View>
                        <View style={styles.actionContainer}>
                             <View style={styles.likeButton}>
                                 <View style={styles.likeIcon}>
                                     <Ionicons name={"heart"} size={30}</pre>
      ={ this.state.light theme ? "black
marginLeft: 20, marginTop:
                                 </View>
                                 <View>
                                     <Text style={this.state.light theme ?</pre>
styles.likeTextLight : styles.likeText}>12k</Text>
                                 </View>
                             </View>
                        </View>
```



```
</TouchableOpacity>
```

And the styles would be as follows -

```
const styles = StyleSheet.create({
  droidSafeArea: {
      marginTop: Platform.OS === "android" ? StatusBar.currentHeight : 0
                            Anito Hot Jr x Inhito Hot Jr
  cardContainer: {
      marginTop: -20,
      marginBottom: 20,
      marginLeft: 20,
      marginRight: 20,
      backgroundColor: "#2f345d",
      borderRadius: 20,
      height: undefined,
      padding: 10
  cardContainerLight: {
      marginTop: -20,
      marginBottom: 20,
      marginLeft: 20,
      marginRight: 20,
      backgroundColor: "white",
      borderRadius: 20,
      height: undefined,
      padding: 10,
       shadowColor: 'rgb(0, 0, 0)',
       shadowOffset: {
           width: 3,
           height: 3,
       },
       shadowOpacity: 0.5,
       shadowRadius: 5,
      elevation: 2,
  titleContainer: {
       flexDirection: "row"
   titleTextContainer: {
```



```
flex: 0.8
},
iconContainer: {
    flex: 0.2
},
storyTitleText: {
    fontFamily: "Bubblegum-Sans",
    fontSize: 25,
    color: "white"
                              ighal Jr x Illritahal Jr
storyTitleTextLight: {
    fontFamily: "Bubblegum-Sans",
    fontSize: 25,
    color: "black"
},
storyAuthorText: {
    fontFamily: "Bubblegum-Sans",
    fontSize: 18,
    color: "white"
},
storyAuthorTextLight: {
    fontFamily: "Bubblegum-Sans"
    fontSize: 18,
    color: "black"
descriptionContainer
    marginTop:
descriptionText: {
    fontFamily: "Bubblegum-Sans",
    fontSize: 13,
    color: "white"
},
descriptionTextLight: {
    fontFamily: "Bubblegum-Sans",
    fontSize: 13,
    color: "black"
},
actionContainer: {
    marginTop: 10,
    justifyContent: "center",
```

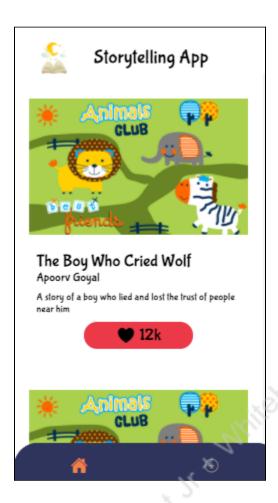
CS-PRO-C87(V3)



```
alignItems: "center"
},
likeButton: {
   backgroundColor: "#eb3948",
   borderRadius: 30,
   width: 160,
   height: 40,
    flexDirection: "row"
},
   WhiteHat II + WhiteHat II + WhiteHat II
likeText: {
   marginLeft: 25,
   marginTop: 6
},
likeTextLight: {
   marginLeft: 25,
   marginTop: 6
```



Output:



- 6. Now, format the **Bottom Tab Navigator** as given below:
 - Import the firebase module as import firebase from "firebase";
 - Change this code line from -

const BottomTabNavigator = () =>{

- To -
- export default class BottomTabNavigator extends component{
- Next, import {Component} from "react" as follows import React, {Component} from 'react';
- 7. Add our **constructor()** and **componentDidMount()** function in the **BottomTabNavigator** file.



```
constructor(props) {
    super(props);
    this.state = {
        light_theme: true
    };
}
componentDidMount() {
    let theme;
    firebase
        .database()
        .ref("/users/" + firebase.auth().currentUser.uid)
        .on("value", function (snapshot) {
            theme = snapshot.val().current_theme
        })
                                            "light" ? true : false })
    this.setState({ light_theme: theme
```

8. Wrap our return() function within a render() function -



```
render() {
    return (
        <Tab.Navigator
            labeled={false}
            barStyle={styles.bottomTabStyle}
            screenOptions={({ route }) => ({
                tabBarIcon: ({ focused, color, size }) => {
                    let iconName;
                    if (route.name === 'Feed') {
                        iconName = focused
                            ? 'home'
                            : 'home-outline';
                    } else if (route.name === 'Create Story') {
                        iconName = focused ? 'add-circle' : 'add-circle-outline';
                                                      size={30} color={color} style={{ w
                    return <Ionicons name={iconName}</pre>
                },
            })}
            activeColor={'#ee8249'}
            inactiveColor={'gray'}
            <Tab.Screen name="Feed" component={Feed} />
            <Tab.Screen name="Create Story" component={CreateStory} />
        </Tab.Navigator>
```

9. Add styling conditions to the **barStyle** attribute as follows:

```
barStyle={this.state.light_theme ? styles.bottomTabStyleLight : styles.bottomTabStyle}
```

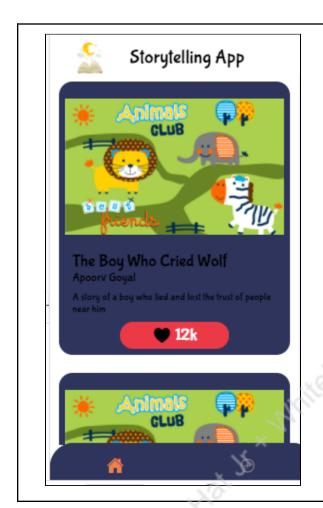
10. Add styles to barStyle props of Tab.Navigartor

```
bottomTabStyleLight: {
   backgroundColor: "#eaeaea",
   height: "8%",
   borderTopLeftRadius: 30,
   borderTopRightRadius: 30,
   overflow: 'hidden',
   position: 'absolute'
}
```

11. Remove the export statement towards the end, since we are already exporting our newly converted class component above.



Output:





What's next?

Next class, we will use firebase to add stories and get stories, instead of using temporary data. We will also run to check if there are any bugs in our App and debug those.

EXTEND YOUR KNOWLEDGE

Bookmark the following link to know more about ToggleSwitch: https://www.npmjs.com/package/toggle-switch-react-native