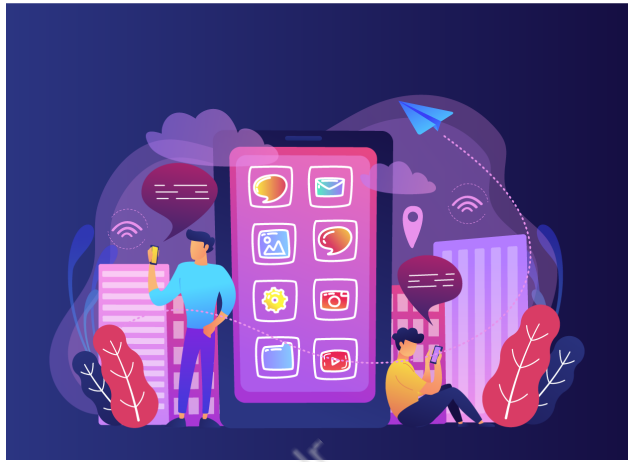


## MATERIAL UI AND FEED SCREEN



### What is our GOAL for this MODULE?

In this class, we continued to build a Storytelling application. We also explored the material UI with the help of which, we styled the bottom tab navigation and the feed screen.

### What did we ACHIEVE in the class TODAY?

- Customized the appearance of bottom tab navigation using material UI.
- Designed the interface of the feed screen.

### Which CONCEPTS/ CODING BLOCKS did we cover today?

- Feed screen designing
- Bottom Tab Customization

### How did we DO the activities?

1. Start with installing the required dependency:  

```
yarn add @react-navigation/material-bottom-tabs react-native-paper
```
2. Edit the TabNavigator.js in the navigation folder to add styling.
3. Import **createMaterialBottomTabNavigator()** which comes with exciting styling options.

```

JS TabNavigator.js X
navigation > JS TabNavigator.js > [e] BottomTabNavigator
1  import React from "react";
2  import { StyleSheet } from "react-native";
3  import { createMaterialBottomTabNavigator } from "@react-navigation/material-bottom-tabs";
4  import Ionicons from "react-native-vector-icons/Ionicons";
5  import { RFValue } from "react-native-responsive-fontsize";
6
7  import Feed from "../screens/Feed";
8  import CreateStory from "../screens/CreateStory";
9  const Tab = createMaterialBottomTabNavigator();
  
```

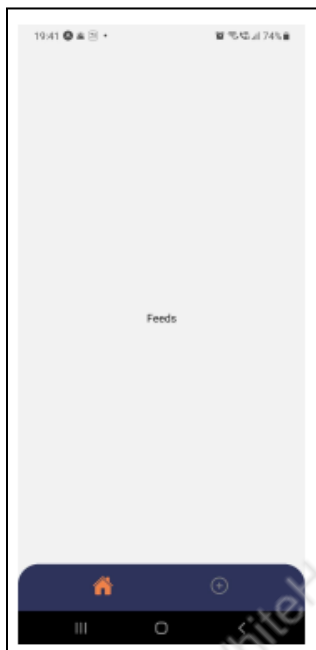
4. Use **MaterialBottomTabNavigator** component for a variety of different attributes such as **labeled**, **barStyle**, **screenOptions**, **activeColor** and **inactiveColor**.

```

const BottomTabNavigator = () => {
  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';
          }
          return <Ionicons name={iconName} size={30} color={color} style={{
width: 30 }} />;
        },
      )}
    >
  
```

```
    ]]  
    activeColor={'#ee8249'}  
    inactiveColor={'gray'}  
  >  
    <Tab.Screen name="Feed" component={Feed} />  
    <Tab.Screen name="Create Story" component={CreateStory} />  
  </Tab.Navigator>  
);  
}
```

Output:



5. Replace default font with custom fonts available inside the asset folder.
6. Install the following dependencies:  
    `expo install expo-font`  
    `expo install expo-splash-screen`
7. Create a temporary JSON file containing an array of objects with story data. Use this to create a UI. This will be added in the new file temp\_stories.json in the screens folder.

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

import * as Font from 'expo-font';
import * as SplashScreen from 'expo-splash-screen';
SplashScreen.preventAutoHideAsync();

let customFonts = {
  'Bubblegum-Sans': require('../assets/fonts/BubblegumSans-Regular.ttf'),
};

export default class Feed extends Component {
  constructor(props) {
    super(props);
    this.state = {
      fontsLoaded: false,
    };
  }
}
```

8. Load custom fonts in the Feed screen using the following code blocks:

```
async _loadFontsAsync() {
  await Font.loadAsync(customFonts);
  this.setState({ fontsLoaded: true });
}

componentDidMount() {
  this._loadFontsAsync();
}

render() {
  if (this.state.fontsLoaded) {
    SplashScreen.hideAsync();
    return (
      <View
        style={{
          flex: 1,
          justifyContent: "center",
          alignItems: "center"
        }}>
        <Text>Feeds</Text>
      </View>
    );
  }
}
```

```

    </View>
  )
}
}
}

```

9. Render FlatList on screen by using the following code block:

```

return (
  <View style={styles.container}>
    <SafeAreaView style={styles.droidSafeArea} />
    <View style={styles.appTitle}>
      <View style={styles.appIcon}>
        <Image source={require("../assets/logo.png")} style={{ width: 60,
height: 60, resizeMode: 'contain', marginLeft: 10 }} /></Image>
      </View>
      <View style={styles.appTitleTextContainer}>
        <Text style={styles.appTitleText}>
          Storytelling App
        </Text>
      </View>
    </View>
    <View style={styles.cardContainer}>
      <FlatList
        keyExtractor={this.keyExtractor}
        data={stories}
        renderItem={this.renderItem}
      />
    </View>
  </View>
)

```

10. FlatList props data will be given like this:

```

let stories = require("../temp_stories.json");

```

```
renderItem = ({ item: story }) => {
  |   return <StoryCard story={story} />
};

keyExtractor = (item, index) => index.toString();
```

11. Add styling for app header.

```
const styles = StyleSheet.create({
droidSafeArea: {
  marginTop: Platform.OS === "android" ? StatusBar.currentHeight : 0
},
cardContainer: {
  marginTop: -20,
  marginBottom: 20,
  marginLeft: 20,
  marginRight: 20,
  backgroundColor: "#2f345d",
  borderRadius: 20,
  height: undefined,
  padding: 10
},
titleContainer: {
  flexDirection: "row"
},
titleTextContainer: {
  flex: 1
},
storyTitleText: {
  fontFamily: "Bubblegum-Sans",
  fontSize: 25,
  color: "white"
},
storyAuthorText: {
  fontFamily: "Bubblegum-Sans",
  fontSize: 18,
  color: "white"
},
descriptionContainer: {
```

```
    marginTop: 5
  },
  descriptionText: {
    fontFamily: "Bubblegum-Sans",
    fontSize: 13,
    color: "white"
  },
  actionContainer: {
    marginTop: 10,
    justifyContent: "center",
    alignItems: "center"
  },
  likeButton: {
    backgroundColor: "#eb3948",
    borderRadius: 30,
    width: 160,
    height: 40,
    flexDirection: "row"
  },
  likeText: {
    color: "white",
    fontFamily: "Bubblegum-Sans",
    fontSize: 25,
    marginLeft: 25,
    marginTop: 6
  }
});
```

12. In the StoryCard.js file, update the render function and add the styling.

```
    return (
      <View style={styles.container}>
        <SafeAreaView style={styles.droidSafeArea} />
        <View style={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={styles.storyTitleText}>{this.props.story.title}</Text>
        </View>
        <View style={styles.storyAuthor}>
          <Text
style={styles.storyAuthorText}>{this.props.story.author}</Text>
        </View>
      </View>
    </View>
    <View style={styles.descriptionContainer}>
      <Text style={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} color={"white"} style={{
width: 30, marginLeft: 20, marginTop: 5 }} />
        </View>
        <View>
          <Text style={styles.likeText}>12k</Text>
        </View>
      </View>
    </View>
  </View>
)

```

**Final Output:**





### What's next?

We will work on the CreateStory Screen in the next class and add functionality to submit the stories.

### Expand your knowledge:

1. Explore and experiment with styling the **TabNavigator**:  
<https://reactnavigation.org/docs/tab-based-navigation/#customizing-the-appearance>