



MOBILE APPLICATION DEVELOPMENT

LAB ASSIGNMENT 03

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SUBMITTED TO:

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DATE:

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Lab Task 1

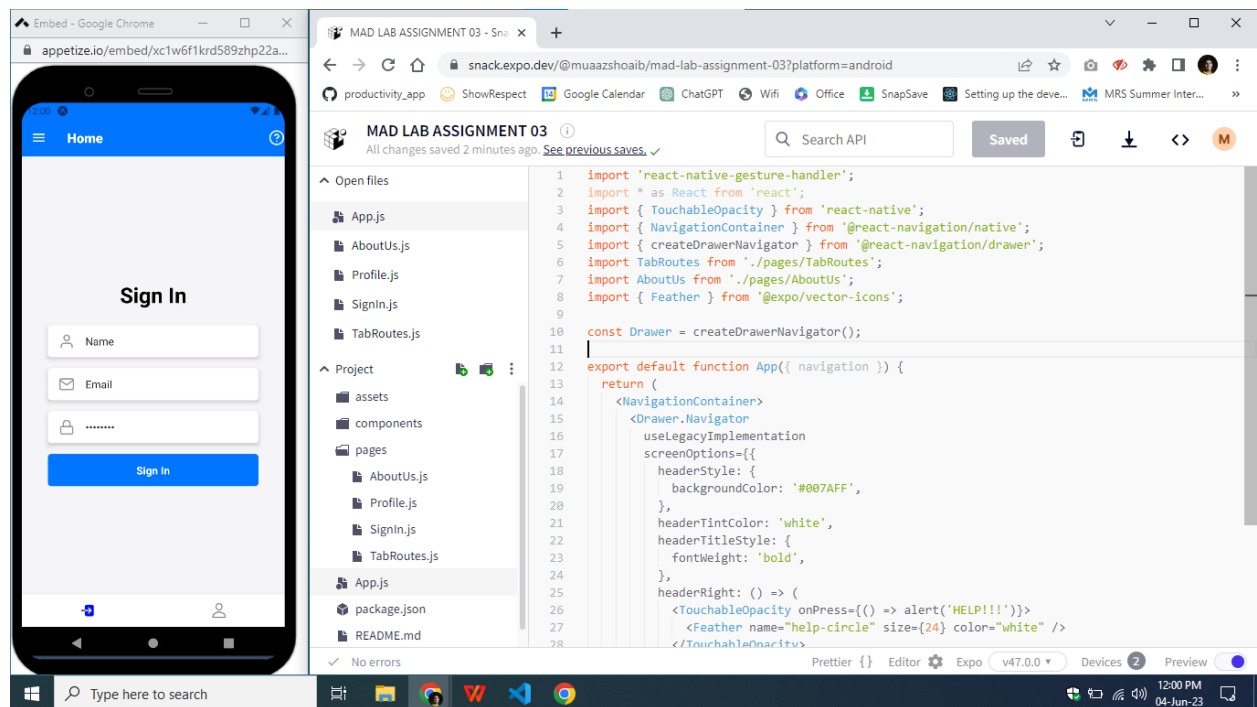
Create an application of your own choice with the tab, drawer and stack navigators implemented.

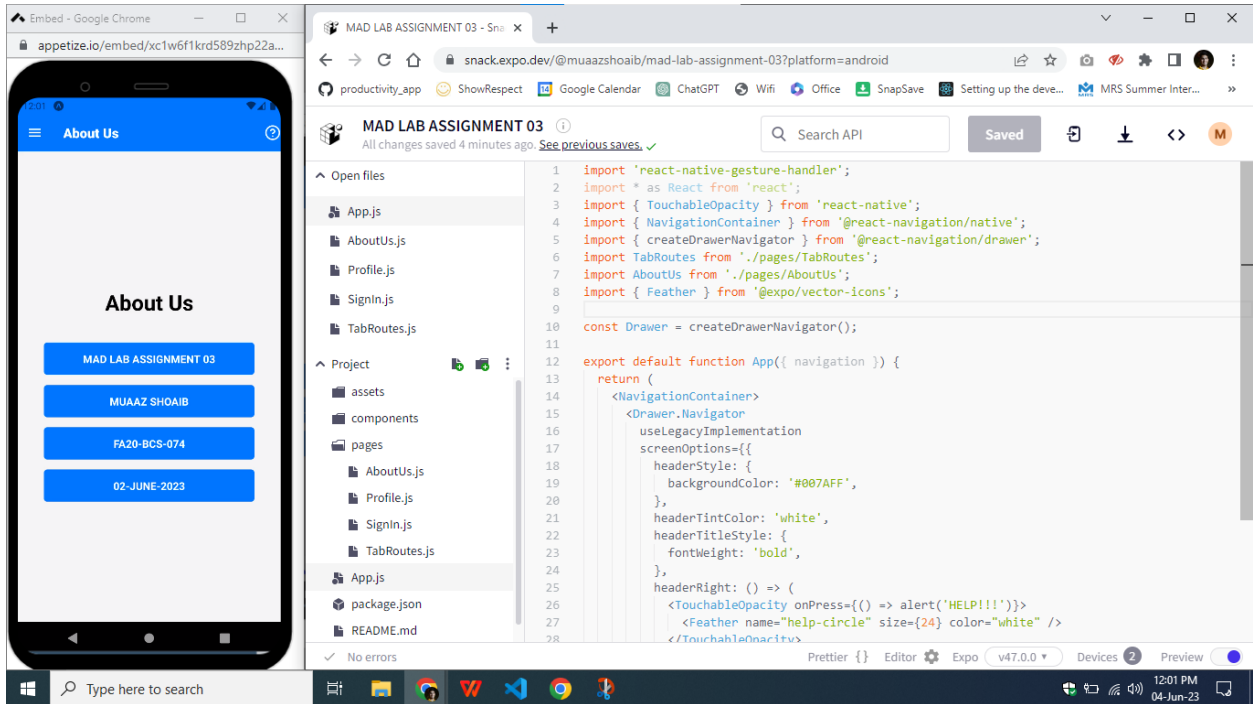
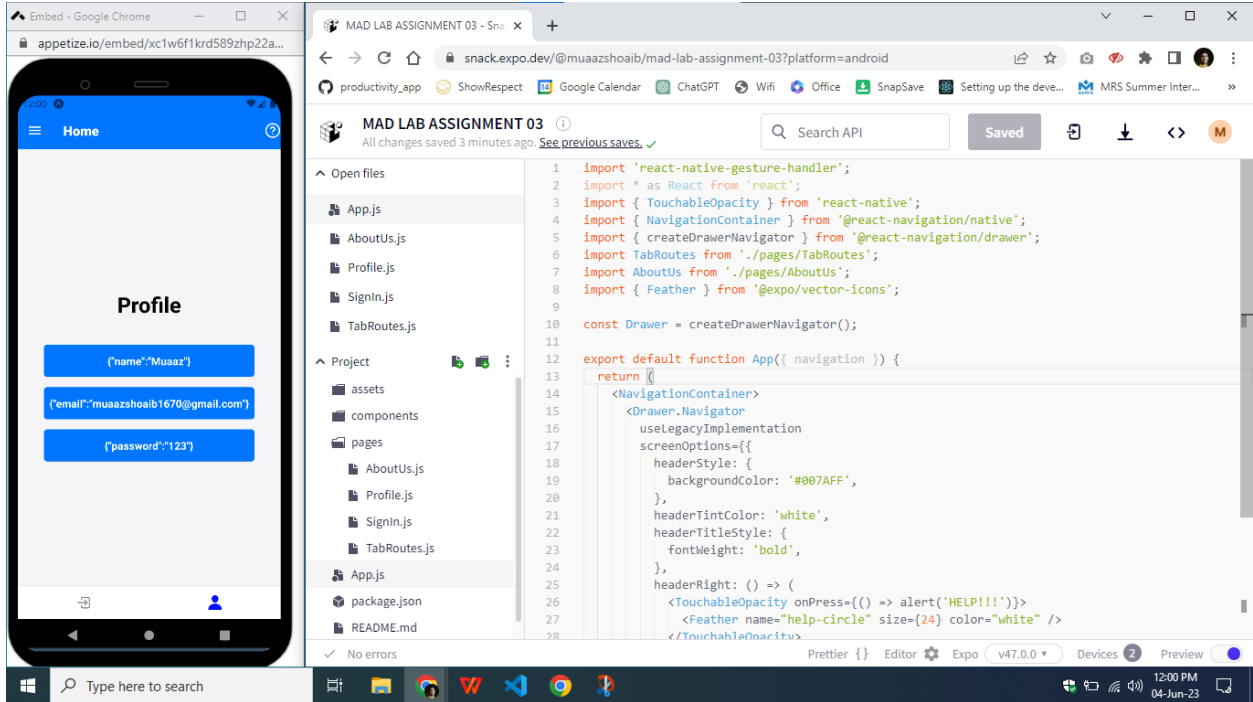
Configuration of header bar should be done according to this <https://reactnavigation.org/docs/headers>

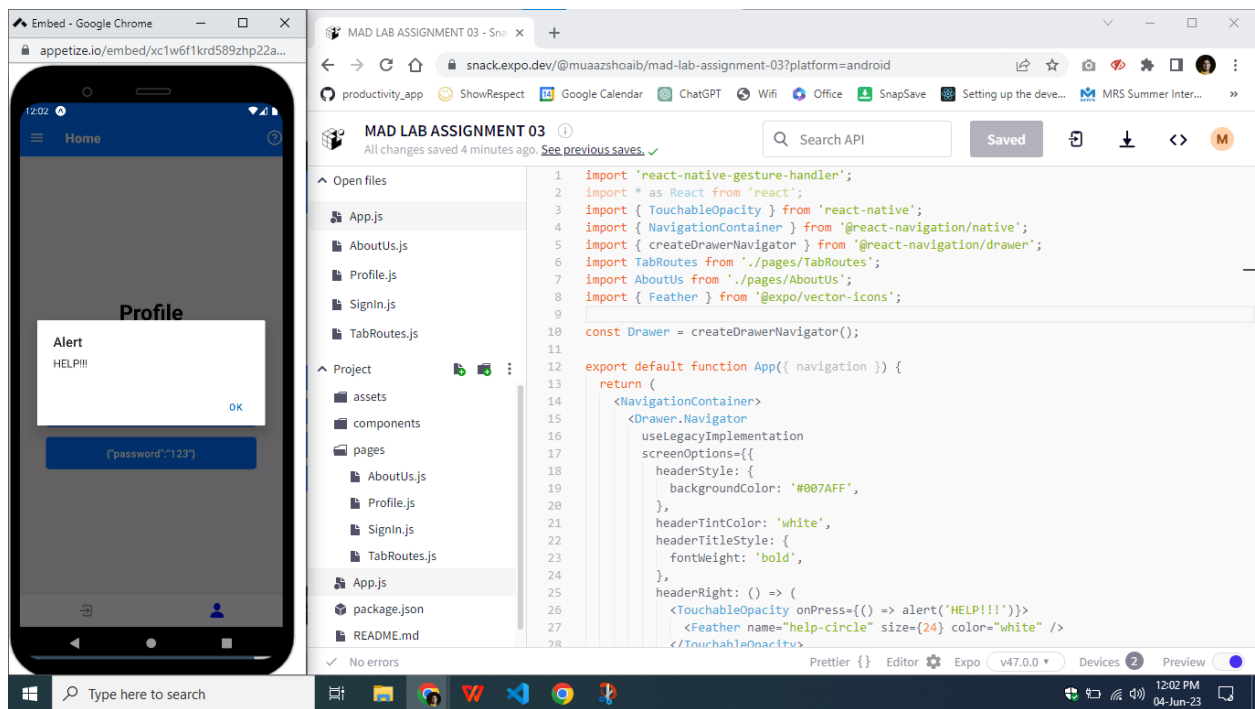
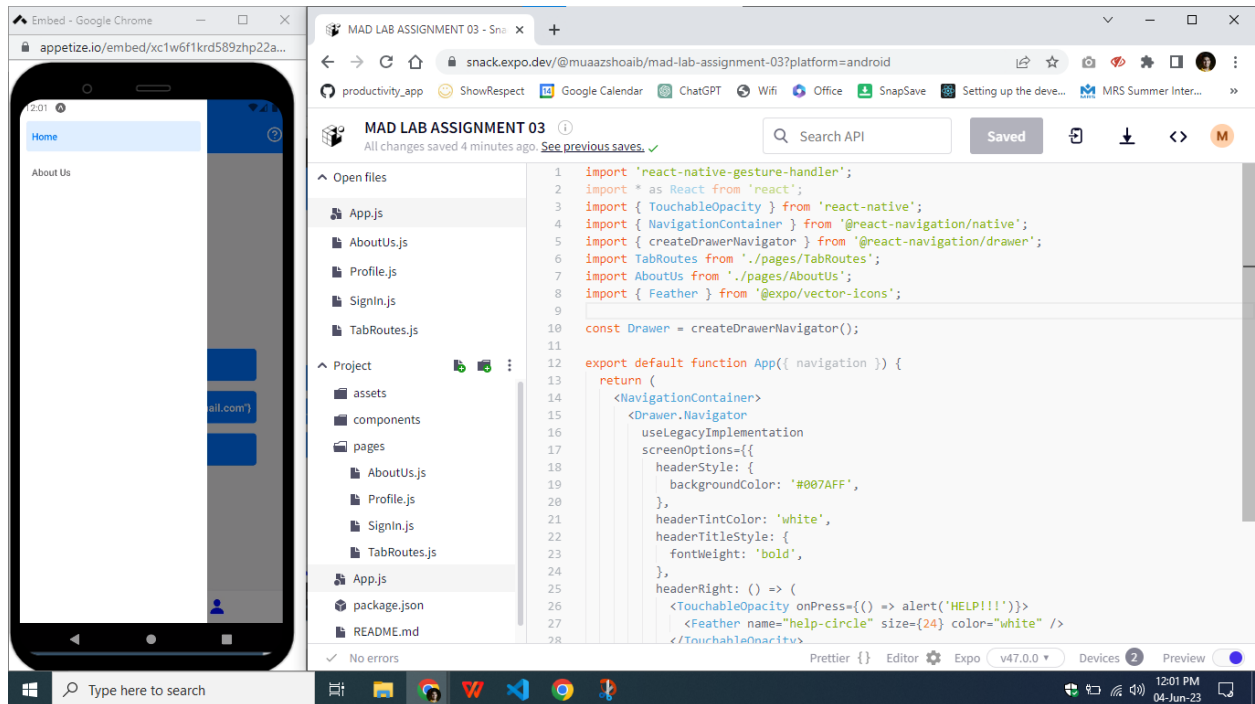
There should be header buttons. Follow this link <https://reactnavigation.org/docs/header-buttons>

There should be some kind of data passing params, initial params and update params between the navigators. Follow this link <https://reactnavigation.org/docs/params>

SOURCE CODE: <https://snack.expo.dev/@muaazshoalb/mad-lab-assignment-03>







App.js

```
import 'react-native-gesture-handler';
```

```
import * as React from 'react';
```

```
import { TouchableOpacity } from 'react-native';

import { NavigationContainer } from '@react-navigation/native';

import { createDrawerNavigator } from '@react-navigation/drawer';

import TabRoutes from '../pages/TabRoutes';

import AboutUs from '../pages/AboutUs';

import { Feather } from '@expo/vector-icons';

const Drawer = createDrawerNavigator();

export default function App({ navigation }) {

  return (

    <NavigationContainer>

      <Drawer.Navigator

        useLegacyImplementation

        screenOptions={{

          headerStyle: {

            backgroundColor: '#007AFF',

          },

          headerTintColor: 'white',

          headerTitleStyle: {

            fontWeight: 'bold',

          },

          headerRight: () => (

            <TouchableOpacity onPress={() => alert('HELP!!!')}>

              <Feather name="help-circle" size={24} color="white" />

            </TouchableOpacity>

          ),

        }}

      />

    </NavigationContainer>

  );

}
```

```

    >>>

    <Drawer.Screen name="Home" component={TabRoutes} />

    <Drawer.Screen name="About Us" component={AboutUs} />

  </Drawer.Navigator>

</NavigationContainer>

);
}

```

TabRoutes.js

```

import * as React from 'react';

import { createBottomTabNavigator } from '@react-navigation/bottom-tabs';

import 'react-native-gesture-handler';

import SignIn from './SignIn';

import Profile from './Profile';

import { Ionicons } from '@expo/vector-icons';

const Tab = createBottomTabNavigator();

const TabRoutes = () => {

  return (

    <Tab.Navigator

      screenOptions={({ route }) => ({

        tabBarIcon: ({ focused, color, size }) => {

          let iconName;

          <ion-icon name="log-in-outline"></ion-icon>;

          if (route.name === 'SignIn') {

            iconName = focused ? 'log-in' : 'log-in-outline';

```

```

    } else if (route.name === 'Profile') {

      iconName = focused ? 'person' : 'person-outline';

    }

    return <Ionicons name={iconName} size={size} color={color} />;

  },

  tabBarActiveTintColor: 'blue',

  tabBarInactiveTintColor: 'gray',

  headerShown: false,

  tabBarShowLabel: false,

  ))}>

  <Tab.Screen name="SignIn" component={SignIn} />

  <Tab.Screen name="Profile" component={Profile} />

</Tab.Navigator>

);

};

export default TabRoutes;

```

SignIn.js

```

import 'react-native-gesture-handler';

import * as React from 'react';

import {

  Text,

  View,

  StyleSheet,

  TouchableOpacity,

```

```
    TextInput,

} from 'react-native';

import { useState } from 'react';

import { createNativeStackNavigator } from
'@react-navigation/native-stack';

import { Feather } from '@expo/vector-icons';

import AboutUs from './AboutUs';

const Stack = createNativeStackNavigator();

const Page = ({ navigation, route }) => {

  const [email, setEmail] = useState('Email');

  const [name, setName] = useState('Name');

  const [password, setPassword] = useState('Password');

  return (

    <View style={styles.container}>

      <Text style={styles.title}>Sign In</Text>

      <View style={styles.inputContainer}>

        <Feather name="user" size={24} color="#999" />

        <TextInput

          style={styles.input}

          placeholder="Name"

          placeholderTextColor="#999"

          value={name}

          onChangeText={(text) => setName(text)}

        />

      </View>

    </View>

  );
};
```



```

    />

</View>

<View style={styles.inputContainer}>

  <Feather name="mail" size={24} color="#999" />

  <TextInput

    style={styles.input}

    placeholder="Email"

    placeholderTextColor="#999"

    value={email}

    onChangeText={ (text) => setEmail(text) }

  />

</View>

<View style={styles.inputContainer}>

  <Feather name="lock" size={24} color="#999" />

  <TextInput

    style={styles.input}

    placeholder="Password"

    placeholderTextColor="#999"

    secureTextEntry

    value={password}

    onChangeText={ (text) => setPassword(text) }

  />

</View>

<TouchableOpacity

  style={styles.button}

  onPress={ () =>

    navigation.navigate('Profile', {

```

```

        Name: { name },

        Email: { email },

        Password: { password },

    })

}>

<Text style={styles.buttonText}>Sign In</Text>

</TouchableOpacity>

</View>

);

};

const SignIn = ({ navigation }) => {

    return (

        <Stack.Navigator

            screenOptions={{

                headerShown: false,

            }}>

            <Stack.Screen name="SignIn" component={Page}></Stack.Screen>

            <Stack.Screen name="AboutUs" component={AboutUs}></Stack.Screen>

        </Stack.Navigator>

    );

};

const styles = StyleSheet.create({

    container: {

        flex: 1,

        alignItems: 'center',

        justifyContent: 'center',

```

```
    backgroundColor: '#F5F5F5',
  },
  inputContainer: {
    flexDirection: 'row',
    alignItems: 'center',
    width: '80%',
    height: 48,
    borderRadius: 5,
    backgroundColor: '#FFF',
    shadowColor: '#000',
    shadowOffset: {
      width: 0,
      height: 2,
    },
    shadowOpacity: 0.25,
    shadowRadius: 3.84,
    elevation: 5,
    paddingLeft: 16,
    marginBottom: 16,
  },
  title: {
    fontSize: 32,
    fontWeight: 'bold',
    marginTop: 24,
    marginBottom: 24,
  },
  input: {
```

```
    flex: 1,

    marginLeft: 16,

    fontSize: 16,

  },

  button: {

    width: '80%',

    height: 48,

    borderRadius: 5,

    backgroundColor: '#007AFF',

    alignItems: 'center',

    justifyContent: 'center',

    marginTop: 0,

  },

  buttonText: {

    color: '#FFF',

    fontSize: 16,

    fontWeight: 'bold',

  },

});

export default SignIn;
```

Profile.js

```
import 'react-native-gesture-handler';

import * as React from 'react';

import { Text, View, StyleSheet, TouchableOpacity } from 'react-native';
```

```

const Profile = ({ route }) => {

  const { Name, Email, Password } = route.params;

  return (

    <View style={styles.container}>

      <Text style={styles.title}>Profile</Text>

      <TouchableOpacity style={styles.button}>

        <Text style={styles.buttonText}>{JSON.stringify(Name)}</Text>

      </TouchableOpacity>

      <TouchableOpacity style={styles.button}>

        <Text style={styles.buttonText}>{JSON.stringify(Email)}</Text>

      </TouchableOpacity>

      <TouchableOpacity style={styles.button}>

        <Text style={styles.buttonText}>{JSON.stringify(Password)}</Text>

      </TouchableOpacity>

    </View>

  );
};

```

```

const styles = StyleSheet.create({

  container: {

    flex: 1,

    alignItems: 'center',

    justifyContent: 'center',

    backgroundColor: '#F5F5F5',

```

```
    },

    title: {
      fontSize: 32,
      fontWeight: 'bold',
      marginTop: 24,
      marginBottom: 24,
    },

    button: {
      width: '80%',
      height: 48,
      borderRadius: 5,
      backgroundColor: '#007AFF',
      alignItems: 'center',
      justifyContent: 'center',
      marginTop: 15,
    },

    buttonText: {
      color: '#FFF',
      fontSize: 16,
      fontWeight: 'bold',
    },
  });

export default Profile;
```

AboutUs.js

```
import 'react-native-gesture-handler';

import * as React from 'react';

import { Text, View, StyleSheet, TouchableOpacity } from 'react-native';

const AboutUsPage = () => {

  return (

    <View style={styles.container}>

      <Text style={styles.title}>About Us</Text>

      <TouchableOpacity style={styles.button}>

        <Text style={styles.buttonText}>MAD LAB ASSIGNMENT 03</Text>

      </TouchableOpacity>

      <TouchableOpacity style={styles.button}>

        <Text style={styles.buttonText}>MUAAZ SHOAIB</Text>

      </TouchableOpacity>

      <TouchableOpacity style={styles.button}>

        <Text style={styles.buttonText}>FA20-BCS-074</Text>

      </TouchableOpacity>

      <TouchableOpacity style={styles.button}>

        <Text style={styles.buttonText}>02-JUNE-2023</Text>

      </TouchableOpacity>

    </View>

  );
};
```

```
    );  
};  
  
const styles = StyleSheet.create({  
  container: {  
    flex: 1,  
    alignItems: 'center',  
    justifyContent: 'center',  
    backgroundColor: '#F5F5F5',  
  },  
  
  title: {  
    fontSize: 32,  
    fontWeight: 'bold',  
    marginTop: 24,  
    marginBottom: 24,  
  },  
  
  button: {  
    width: '80%',  
    height: 48,  
    borderRadius: 5,  
    backgroundColor: '#007AFF',  
    alignItems: 'center',  
    justifyContent: 'center',  
    marginTop: 15,  
  },  
});
```



```
    buttonText: {  
      color: '#FFF',  
      fontSize: 16,  
      fontWeight: 'bold',  
    },  
  });  
  
export default AboutUsPage;
```