Name: Muhammad Shahzaib Shaheen

Registration number: FA20-BCS-040

Section: 6-B

Subject: Mobile Application Development

Assignment #: 04(Theory)

HomeScreen.js

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

const HomeScreen = ({ navigation }) => {
  return (
    <View style={styles.container}>
      <Text style={styles.title}>Home</Text>

      <TouchableOpacity
        style={styles.Button}
        onPress={() => navigation.navigate("Signin")}
      >
        <Text style={styles.ButtonText}>Sign In</Text>
      </TouchableOpacity>

      <TouchableOpacity
        style={styles.Button}
        onPress={() => navigation.navigate("Signup")}
      >
        <Text style={styles.ButtonText}>Sign Up</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: 16,
    },
    ButtonText: {
      color: "#FFF",
      fontSize: 16,
      fontWeight: "bold",
    },
});

export default HomeScreen;
```

profileScreen.js

```javascript
import "react-native-gesture-handler";
import * as React from "react";
import { Text, View, StyleSheet, TouchableOpacity } from "react-native";

const ProfileScreen = ({ navigation, 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}>Name: {JSON.stringify(Name)}</Text>
      </TouchableOpacity>

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

      <TouchableOpacity style={styles.button}>
        <Text style={styles.buttonText}>Password:
{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 ProfileScreen;
```

signinScreen.js

```
import { useState } from "react";
import AsyncStorage from "@react-native-async-storage/async-storage";
import {
  StyleSheet,
  Text,
  TextInput,
  TouchableOpacity,
  View,
} from "react-native";
```

```jsx
import { Feather } from "@expo/vector-icons";

const SigninScreen = ({ navigation, routes }) => {
  const [userName, setUserName] = useState(null);
  const [password, setPassword] = useState(null);
  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={userName}
          onChangeText={(text) => setUserName(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={async () => {
          if (userName == null || password == null) {
            alert("Please fill out all fields.");
            return;
          }

          try {
            var userInformation = await AsyncStorage.getItem("@storage_Key");
            userInformation = JSON.parse(userInformation);
            console.log(userInformation);
            console.log(userInformation["email"]);
            console.log(userInformation["password"]);
            console.log(userInformation["userName"]);
```

```
              navigation.navigate("Profile", {
                Name: userInformation["userName"],
                Email: userInformation["email"],
                Password: userInformation["password"],
              });
            } catch (e) {
              // error reading value
              alert("ERROR in SignIn Screen.");
            }
          }}
        >
          <Text style={styles.ButtonText}>Sign In</Text>
        </TouchableOpacity>
      </View>
  );
};
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 SigninScreen;
```

signupScreen.js

```
import { useState } from "react";
import AsyncStorage from "@react-native-async-storage/async-storage";
import {
  StyleSheet,
  Text,
  TextInput,
  TouchableOpacity,
  View,
} from "react-native";
import { Feather } from "@expo/vector-icons";

const SignupScreen = ({ navigation }) => {
  const [userName, setUserName] = useState(null);
  const [password, setPassword] = useState(null);
  const [email, setEmail] = useState(null);

  return (
```

```jsx
<View style={styles.container}>
  <Text style={styles.title}>Sign Up</Text>
  <View style={styles.inputContainer}>
    <Feather name="user" size={24} color="#999" />
    <TextInput
      style={styles.input}
      placeholder="Name"
      placeholderTextColor="#999"
      value={userName}
      onChangeText={(text) => setUserName(text)}
    />
  </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={async () => {
      if (userName == null || email == null || password == null) {
        alert("Please fill out all fields.");
        return;
      }

      try {
        const userInformation = {
          userName: userName,
```

```
              email: email,
              password: password,
          };
          await AsyncStorage.setItem(
              "@storage_Key",
              JSON.stringify(userInformation)
          );
          console.log("Data is saved!");
          console.log(userInformation);

          navigation.navigate("Home");
        } catch (e) {
          // saving error
          alert("ERROR in SignUp Screen.");
        }
      }}
    >
        <Text style={styles.ButtonText}>Sign Up</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,
  },
  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,
},
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 SignupScreen;
```

app.js

```
import { createStackNavigator } from "@react-navigation/stack";
import { NavigationContainer } from "@react-navigation/native";

import HomeScreen from "./screens/HomeScreen";
import SigninScreen from "./screens/SigninScreen";
import SignupScreen from "./screens/SignupScreen";
import ProfileScreen from "./screens/ProfileScreen";

const Stack = createStackNavigator();
```
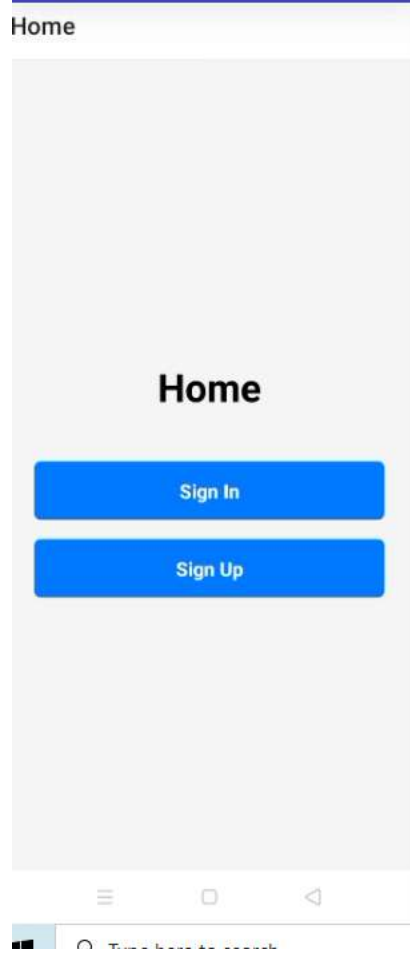
```
const AppNavigator = () => {
  return (
    <NavigationContainer>
      <Stack.Navigator initialRouteName="Home">
        <Stack.Screen name="Home" component={HomeScreen} />
        <Stack.Screen name="Signup" component={SignupScreen} />
        <Stack.Screen name="Signin" component={SigninScreen} />
        <Stack.Screen name="Profile" component={ProfileScreen} />
      </Stack.Navigator>
    </NavigationContainer>
  );
};

export default AppNavigator;
```

Screenshots:

Profile

Name: "shahzeb"

Email: "shahzeb@email.com"

Password: "040"