



**COMSATS UNIVERSITY ISLAMABAD,  
ATTOCK CAMPUS**

**PREPARED BY:**

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**SUBJECT:**

Mobile Application Development

**SUBMITTED TO:**

MR Muhammad Kamran

**DATE:** 24 december,2024

## ASSIGNMENT #04

### CODE:

```
import React, { useEffect, useState } from 'react';
import { View, Text, TextInput, Button, StyleSheet, Alert } from 'react-native';
import AsyncStorage from '@react-native-async-storage/async-storage';
import { Provider, useDispatch, useSelector } from 'react-redux';
import { configureStore, createSlice } from '@reduxjs/toolkit';
import { NavigationContainer } from '@react-navigation/native';
import { createStackNavigator } from '@react-navigation/stack';
import * as Location from 'expo-location';
```

*// Redux Setup*

```
const userSlice = createSlice({
  name: 'user',
  initialState: {
    userData: null,
    location: null,
  },
  reducers: {
    setUserData: (state, action) => {
      state.userData = action.payload;
    },
    setLocation: (state, action) => {
      state.location = action.payload;
    },
  },
});
```

```
const { setUserData, setLocation } = userSlice.actions;
const store = configureStore({ reducer: { user: userSlice.reducer } });
```

*// Screens*

```

const SignupScreen = ({ navigation }) => {
  const [email, setEmail] = useState("");
  const [password, setPassword] = useState("");
  const [username, setUsername] = useState("");

  const handleSignup = async () => {
    if (!email || !password || !username) {
      Alert.alert('Error', 'Please fill all fields');
      return;
    }

    // Mock signup (replace with Firebase or API integration)
    try {
      const user = { email, username };
      await AsyncStorage.setItem('user', JSON.stringify(user));
      Alert.alert('Signup Successful', 'You can now login.');
      navigation.navigate('Login');
    } catch (error) {
      Alert.alert('Error', error.message);
    }
  };

  return (
    <View style={styles.container}>
      <Text style={styles.title}>Signup</Text>
      <TextInput placeholder="Username" value={username} onChangeText={setUsername}
style={styles.input} />
      <TextInput placeholder="Email" value={email} onChangeText={setEmail}
style={styles.input} keyboardType="email-address" />
      <TextInput placeholder="Password" value={password} onChangeText={setPassword}
style={styles.input} secureTextEntry />
      <Button title="Signup" onPress={handleSignup} />
    </View>
  );
};

```

```

    </View>
  );
};

const LoginScreen = ({ navigation }) => {
  const [email, setEmail] = useState("");
  const [password, setPassword] = useState("");
  const dispatch = useDispatch();

  const handleLogin = async () => {
    try {
      const user = JSON.parse(await AsyncStorage.getItem('user'));

      if (user && user.email === email) {
        dispatch(setUserData(user));

        // Fetch location (mock or real using expo-location)
        const { status } = await Location.requestForegroundPermissionsAsync();
        if (status !== 'granted') {
          Alert.alert('Permission Denied', 'Location permission is required.');
```

```

return (
  <View style={styles.container}>
    <Text style={styles.title}>Login</Text>
    <TextInput placeholder="Email" value={email} onChangeText={setEmail}
style={styles.input} keyboardType="email-address" />
    <TextInput placeholder="Password" value={password} onChangeText={setPassword}
style={styles.input} secureTextEntry />
    <Button title="Login" onPress={handleLogin} />
  </View>
);
};

```

```

const ProfileScreen = () => {
  const { userData, location } = useSelector((state) => state.user);

```

```

return (
  <View style={styles.container}>
    <Text style={styles.title}>Profile</Text>
    <Text>Username: {userData?.username}</Text>
    <Text>Email: {userData?.email}</Text>
    <Text>Location: {location ? `${location.lat}, ${location.lng}` : 'Fetching...'}</Text>
  </View>
);
};

```

*// App Navigation*

```

const Stack = createStackNavigator();

```

```

const App = () => {
  return (
    <Provider store={store}>

```

```
<NavigationContainer>
  <Stack.Navigator initialRouteName="Signup">
    <Stack.Screen name="Signup" component={SignupScreen} />
    <Stack.Screen name="Login" component={LoginScreen} />
    <Stack.Screen name="Profile" component={ProfileScreen} />
  </Stack.Navigator>
</NavigationContainer>
</Provider>
);
};
```

*// Styles*

```
const styles = StyleSheet.create({
  container: { flex: 1, padding: 20, justifyContent: 'center' },
  title: { fontSize: 24, marginBottom: 20, fontWeight: 'bold' },
  input: { borderBottomWidth: 1, marginBottom: 15, padding: 10 },
});
```

```
export default App;
```

**SCREENSHOT:**

4:50



## Signup

### Signup

Sufyan045

Sp22-bse-045@cuiatk.edu.pk

Signup

4:50



[< Signup](#)

Login

Log

**Signup Successful**

You can now login.

OK

Email

Password

Login

**Save Password?**

Securely store your password in the Passwords app  
so it's filled in automatically the next time you need it.



4:51



[< Signup](#)

Login

## Login

Sp22-bse-045@cuiatk.edu.pk

Login

4:51



[< Login](#)

Profile

## Profile

Username: Sufyan045  
Email: Sp22-bse-045@cuiatk.edu.pk  
Location: 33.94225744500941, 72.55820802236964

