COMSATS UNIVERSITY ISLAMABAD
(ATTOCK CAMPUS)

Assignment No 3

Submitted By:

Remsha Haneef (Sp22-bse-056)

Course:

Mobile Application Development

Date:

10TH Dec,2024

Submitted To:

Mr. Muhammad Kamran

(CLO-3: Demonstrate the concepts of React Native & React Navigation in the

context of mobile application development)

Description:

Add 2 more screens to your Assignment-2

1- Signup Screen

2- Login Screen

Add Navigation to the app to allow navigation from Signup to Login and the 3rd screen you

already designed in Asssignemnt-2

On filling the signup form the user should navigate to login and on folling login form the user

should navigate to 3rd screen.

Must add checks on the forms like

• password length,

• different characters in text

• alphabets only in username

• Email format check,

• Phone number format check to match +92-3xx-xxxxxxx

Code:

```
import React, { useState } from 'react';
import {
  View,
  Text,
  TextInput,
  Button,
  StyleSheet,
  Alert,
  Image,
  FlatList,
```

```
  ImageBackground,
} from 'react-native';

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

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

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


const profileData = {
 name: "Remsha",
 avatar: 'https://play-lh.googleusercontent.com/_qUtBpMVsGY-
CLPx2DreAENHAbr4KHwBGn2w_3jhGSzoRVFRKn0SXUaK0wXSU0SJ7A',
 productSells: "14.850",
 earnings: "50bil+",
};


const ordersData = [
  {
   id: '1',
   title: 'Beef Burger, Ice Cream, Berries',
   date: '21 Thu 10.00',
   price: '$38.15',
   images: [
    'https://i.imgur.com/NtwIus3.png',
    'https://i.imgur.com/7p0d7ZP.png',
    'https://i.imgur.com/dJOohu2.png',
   ],
  },
  {
   id: '2',
   title: 'Beef Burger, Pepperoni Moo, Cheese Bust',
```

```
    date: '15 Fri 18.00',

    price: '$38.15',

    images: [

      'https://i.imgur.com/o6cPGYi.png',

      'https://i.imgur.com/9srqTxP.png',

      'https://i.imgur.com/mpnL9Ot.png',

    ],

  },

  {

    id: '3',

    title: 'Beef Burger, Ketchup, French Fries',

    date: '18 Mon 10.00',

    price: '$30.50',

    images: [

      'https://i.imgur.com/o6cPGYi.png',

      'https://i.imgur.com/4CeAMnp.png',

      'https://i.imgur.com/trd0N3k.png',

    ],

  },

];


const Stack = createStackNavigator();


const ScreenWrapper = ({ children }) => (

  <ImageBackground

    source={{ uri: 'https://i.imgur.com/4Q0m4XO.jpg' }} // Updated background image

    style={styles.background}

  >
```

```jsx
      {children}
    </ImageBackground>
  );
}


// Signup Screen
function SignupScreen({ navigation }) {
  const [username, setUsername] = useState('');
  const [password, setPassword] = useState('');
  const [email, setEmail] = useState('');
  const [phone, setPhone] = useState('');


  const validateAndNavigate = () => {
    const usernameRegex = /^[A-Za-z]+$/;
    const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    const phoneRegex = /^\+92-3\d{2}-\d{7}$/;


    if (password.length < 8) {
      Alert.alert('Error', 'Password must be at least 8 characters long.');
    } else if (!usernameRegex.test(username)) {
      Alert.alert('Error', 'Username must contain only alphabets.');
    } else if (!emailRegex.test(email)) {
      Alert.alert('Error', 'Invalid email format.');
    } else if (!phoneRegex.test(phone)) {
      Alert.alert('Error', 'Phone number must match +92-3xx-xxxxxxx format.');
    } else {
      navigation.navigate('Login');
    }
  };
```

```
return (
  <ScreenWrapper>
    <View style={styles.container}>
      <Text style={styles.title}>Signup</Text>
      <TextInput
        style={styles.input}
        placeholder="Username"
        onChangeText={setUsername}
        value={username}
      />
      <TextInput
        style={styles.input}
        placeholder="Password"
        secureTextEntry
        onChangeText={setPassword}
        value={password}
      />
      <TextInput
        style={styles.input}
        placeholder="Email"
        keyboardType="email-address"
        onChangeText={setEmail}
        value={email}
      />
      <TextInput
        style={styles.input}
        placeholder="Phone (+92-3xx-xxxxxxx)"
```

```jsx
          keyboardType="phone-pad"

          onChangeText={setPhone}

          value={phone}

        />

        <Button title="Signup" onPress={validateAndNavigate} color="#f57c00" />

      </View>

    </ScreenWrapper>

  );

}


// Login Screen

function LoginScreen({ navigation }) {

  const [username, setUsername] = useState('');

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


  const handleLogin = () => {

    if (username && password) {

      navigation.navigate('Profile');

    } else {

      Alert.alert('Error', 'Please enter both username and password.');

    }

  };


  return (

    <ScreenWrapper>

      <View style={styles.container}>

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

        <TextInput
```

```
          style={styles.input}

          placeholder="Username"

          onChangeText={setUsername}

          value={username}

        />

        <TextInput

          style={styles.input}

          placeholder="Password"

          secureTextEntry

          onChangeText={setPassword}

          value={password}

        />

        <Button title="Login" onPress={handleLogin} color="#f57c00" />

      </View>

    </ScreenWrapper>

  );

}


// Profile Screen
function ProfileScreen() {

  return (

    <ScreenWrapper>

      <View style={styles.container}>

        <View style={styles.profileContainer}>

          <View style={styles.profileHeader}>

            <Text style={styles.profileTitle}>My Profile</Text>

          </View>

          <View style={styles.profileCard}>
```

```jsx
        <Image source={{ uri: profileData.avatar }} style={styles.avatar} />
        <Text style={styles.name}>{profileData.name}</Text>
        <View style={styles.statsContainer}>
          <View style={styles.statItem}>
            <Ionicons name="cube-outline" size={20} color="#f57c00" />
            <Text style={styles.statValue}>{profileData.productSells}</Text>
            <Text style={styles.statLabel}>Product Sells</Text>
          </View>
          <View style={styles.statItem}>
            <Ionicons name="cash-outline" size={20} color="#f57c00" />
            <Text style={styles.statValue}>{profileData.earnings}</Text>
            <Text style={styles.statLabel}>Earnings</Text>
          </View>
        </View>
      </View>
    </View>
    <Text style={styles.ordersTitle}>Recent Orders</Text>
    <FlatList
      data={ordersData}
      keyExtractor={(item) => item.id}
      renderItem={({ item }) => (
        <View style={styles.orderItem}>
          <View style={styles.imageRow}>
            {item.images.map((img, index) => (
              <Image key={index} source={{ uri: img }} style={styles.orderImage} />
            ))}
          </View>
          <Text style={styles.orderTitle}>{item.title}</Text>
```

```jsx
          <Text style={styles.orderDate}>{item.date}</Text>
          <Text style={styles.orderPrice}>{item.price}</Text>
        </View>
      )}
    />
    </View>
  </ScreenWrapper>
 );
}


// App Navigation
export default function App() {
 return (
  <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>
 );
}


// Styles
const styles = StyleSheet.create({
 background: {
   flex: 1,
   resizeMode: 'cover',
```

```
    },
    container: {
     flex: 1,
     padding: 20,
     justifyContent: 'center',
    },
    title: {
     fontSize: 28,
     textAlign: 'center',
     marginBottom: 20,
     color: '#f57c00',
    },
    input: {
     borderWidth: 1,
     borderColor: '#ddd',
     borderRadius: 10,
     padding: 10,
     marginBottom: 15,
     backgroundColor: '#fff',
    },
    profileContainer: {
     marginBottom: 20,
    },
    profileHeader: {
     marginBottom: 10,
    },
    profileTitle: {
     fontSize: 18,
```

```
    fontWeight: 'bold',

    textAlign: 'center',

    color: '#444',

  },

  profileCard: {

   alignItems: 'center',

   padding: 20,

   backgroundColor: '#fff',

   borderRadius: 10,

   elevation: 5,

  },

  avatar: {

   width: 80,

   height: 80,

   borderRadius: 40,

   marginBottom: 10,

  },

  name: {

   fontSize: 20,

   fontWeight: 'bold',

  },

  statsContainer: {

   flexDirection: 'row',

   marginTop: 10,

  },

  statItem: {

   alignItems: 'center',

   marginHorizontal: 10,
```

```
  },
  statValue: {
    fontSize: 16,
    fontWeight: 'bold',
  },
  statLabel: {
    fontSize: 12,
    color: '#888',
  },
  ordersTitle: {
    fontSize: 18,
    fontWeight: 'bold',
    marginBottom: 10,
    color: '#444',
  },
  orderItem: {
    backgroundColor: '#fff',
    padding: 10,
    borderRadius: 10,
    marginBottom: 10,
    elevation: 3,
  },
  imageRow: {
    flexDirection: 'row',
    marginBottom: 10,
  },
  orderImage: {
    width: 50,
```

```
    height: 50,

    borderRadius: 7,

    marginRight: 5,

  },

  orderTitle: {

   fontSize: 16,

   fontWeight: 'bold',

   color: '#333',

  },

  orderDate: {

   fontSize: 14,

   color: '#777',

  },

  orderPrice: {

   fontSize: 15,

   fontWeight: 'bold',

   color: '#f57c00',

  },

});
```

OUTPUT:

Signup:

Login:

Profile:

← Profile

My Profile

Remsha

14.850
Product Sells

50bil+
Earnings

Recent Orders

Beef Burger, Ice Cream, Berries
21 Thu 10.00
$38.15

Beef Burger, Pepperoni Moo, Cheese Bust
15 Fri 18.00
$38.15

Beef Burger, Ketchup, French Fries