

COMSATS UNIVERSITY ISLAMABAD

ATTOCK CAMPUS

[Insert COMSATS Logo Here]

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Class: MAD

Date: 10 Dec, 2024

Assignment No: 3

Assignment Code

```
import React, { useState } from 'react';
import { View, Text, TextInput, Button, StyleSheet, Alert } from 'react-native';
import { NavigationContainer } from '@react-navigation/native';
import { createStackNavigator } from '@react-navigation/stack';

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

  const validateSignup = () => {
    if (password.length < 6) {
      Alert.alert('Error', 'Password must be at least 6 characters long.');
```

```
      return;
    }
    if (!/^[a-zA-Z]+$/.test(username)) {
      Alert.alert('Error', 'Username must contain alphabets only.');
```

```
      return;
    }
    if (!/^\S+@\S+\.\S+$/.test(email)) {
      Alert.alert('Error', 'Invalid email format.');
```

```
      return;
    }
    if (!/^\+92-3\d{2}-\d{7}$/.test(phone)) {
      Alert.alert('Error', 'Phone number must match +92-3xx-xxxxxxx format.');
```

```
      return;
    }
    navigation.navigate('Login');
```

```

};

return (
  <View style={styles.container}>
    <Text style={styles.header}>Signup</Text>
    <TextInput
      style={styles.input}
      placeholder="Email"
      value={email}
      onChangeText={setEmail}
    />
    <TextInput
      style={styles.input}
      placeholder="Username"
      value={username}
      onChangeText={setUsername}
    />
    <TextInput
      style={styles.input}
      placeholder="Password"
      secureTextEntry
      value={password}
      onChangeText={setPassword}
    />
    <TextInput
      style={styles.input}
      placeholder="Phone (+92-3xx-xxxxxxx)"
      value={phone}
      onChangeText={setPhone}
    />
    <Button title="Signup" onPress={validateSignup} />
  </View>
);
};

// Login Screen
const LoginScreen = ({ navigation }) => {
  const [email, setEmail] = useState('');
  const [password, setPassword] = useState('');

  const validateLogin = () => {
    if (email && password) {
      navigation.navigate('Profile');
    } else {
      Alert.alert('Error', 'Please fill in all fields.');
```

```

        value={email}
        onChangeText={setEmail}
      />
      <TextInput
        style={styles.input}
        placeholder="Password"
        secureTextEntry
        value={password}
        onChangeText={setPassword}
      />
      <Button title="Login" onPress={validateLogin} />
    </View>
  );
};

// Stack Navigator
const Stack = createStackNavigator();

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>
  );
}

const styles = StyleSheet.create({
  container: {
    flex: 1,
    justifyContent: 'center',
    padding: 20,
  },
  header: {
    fontSize: 24,
    fontWeight: 'bold',
    marginBottom: 20,
    textAlign: 'center',
  },
  input: {
    borderWidth: 1,
    borderColor: '#ccc',
    padding: 10,
    borderRadius: 5,
    marginBottom: 10,
  },
});

```