**Name: Anusha Amin**

**Class: BCS 6B**

**Registration No.: FA20-BCS-032**

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**Mobile App Development**

**Assignment no. 4**

**CODE:**

import React, { useState } from "react";

import {

  Text,

  View,

  StyleSheet,

  TextInput,

  TouchableOpacity,

  Alert,

} from "react-native";

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

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

import AsyncStorage from "@react-native-async-storage/async-storage";

const signUpScreen = ({ navigation }) => {

  const [firstName, setFirstName] = useState("");

  const [lastName, setLastName] = useState("");

  const [email, setEmail] = useState("");

  const [gender, setGender] = useState("");

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

  const [confirmPassword, setConfirmPassword] = useState("");

  const handleSignUp = async () => {

    if (

      !firstName ||

      !lastName ||

      !email ||

      !gender ||

      !password ||

      !confirmPassword

    ) {

      window.alert("Error , Please fill in all the fields");

      return;

    }

    if (password !== confirmPassword) {

      window.alert("Error , Passwords do not match");

      return;

    }

    // Store user information in AsyncStorage

    try {

      const userData = { firstName, lastName, email, gender, password };

      await AsyncStorage.setItem("userData", JSON.stringify(userData));

      navigation.navigate("Login");

    } catch (error) {

      console.log("Error storing user data:", error);

    }

  };

  return (

    <View style={styles.container}>

      <Text style={styles.signUpText}>Create New Account</Text>

      <TextInput

        placeholder="Enter First Name"

        style={styles.textInput}

        value={firstName}

        onChangeText={setFirstName}

      />

      <TextInput

        placeholder="Enter Last Name"

        style={styles.textInput}

        value={lastName}

        onChangeText={setLastName}

      />

      <TextInput

        placeholder="Enter Email"

        style={styles.textInput}

        value={email}

        onChangeText={setEmail}

        keyboardType="email-address"

        autoCapitalize="none"

      />

      <TextInput

        placeholder="Enter Gender"

        style={styles.textInput}

        value={gender}

        onChangeText={setGender}

      />

      <TextInput

        placeholder="Enter Password"

        style={styles.textInput}

        value={password}

        onChangeText={setPassword}

        secureTextEntry

      />

      <TextInput

        placeholder="Confirm Password"

        style={styles.textInput}

        value={confirmPassword}

        onChangeText={setConfirmPassword}

        secureTextEntry

      />

      <TouchableOpacity style={styles.button} onPress={handleSignUp}>

        <Text style={styles.buttonText}>Register</Text>

      </TouchableOpacity>

      <TouchableOpacity onPress={() => navigation.navigate("Login")}>

        <Text style={styles.footerText}>Login Instead?</Text>

      </TouchableOpacity>

    </View>

  );

};

const loginScreen = ({ navigation }) => {

  const [email, setEmail] = useState("");

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

  const handleLogin = async () => {

    // Validate form inputs

    if (!email || !password) {

     window.alert("Error", "Please fill in all the fields");

      return;

    }

    try {

      // Retrieve user data from AsyncStorage

      const userData = await AsyncStorage.getItem("userData");

      if (userData) {

        const { email: storedEmail, password: storedPassword } =

          JSON.parse(userData);

        if (email === storedEmail && password === storedPassword) {

          navigation.navigate("Profile");

        } else {

         window.alert("Error", "Invalid email or password");

        }

      } else {

       window.alert("Error", "No user found. Please sign up first.");

      }

    } catch (error) {

      console.log("Error retrieving user data:", error);

    }

  };

  return (

    <View style={styles.container}>

      <Text style={{ fontSize: 40, fontWeight: "700", color: "#1044e6" }}>

        Login

      </Text>

      <TextInput

        placeholder="Enter Email"

        style={styles.textInput}

        value={email}

        onChangeText={setEmail}

        keyboardType="email-address"

        autoCapitalize="none"

      />

      <TextInput

        placeholder="Enter Password"

        style={styles.textInput}

        value={password}

        onChangeText={setPassword}

        secureTextEntry

      />

      <TouchableOpacity style={styles.button} onPress={handleLogin}>

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

      </TouchableOpacity>

      <TouchableOpacity

        style={{ marginTop: 20 }}

        onPress={() => navigation.navigate("SignUp")}

      >

        <Text style={styles.footerText}>Create an account?</Text>

      </TouchableOpacity>

    </View>

  );

};

const profileScreen = () => {

  return (

    <View style={styles.profileContainer}>

      <Text style={styles.profileText}>First Name : Anusha</Text>

      <Text style={styles.profileText}>Last Name : Amin</Text>

      <Text style={styles.profileText}>Email : anusha@gmail.com</Text>

      <Text style={styles.profileText}>Gender : Female</Text>

      <Text style={styles.profileText}>Reg No. : FA20-BCS-010</Text>

      <Text style={styles.profileText}>Program : Bachelors in CS</Text>

      <Text style={styles.profileText}>City : Attock</Text>

    </View>

  );

};

const Stack = createStackNavigator();

export default function App() {

  return (

    <NavigationContainer>

      <Stack.Navigator>

        <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,

    backgroundColor: "white",

    justifyContent: "center",

    alignItems: "center",

  },

  signUpText: {

    fontSize: 35,

    fontWeight: "700",

    color: "#1044e6",

  },

  textInput: {

    width: "80%",

    height: 50,

    borderBottomWidth: 2,

    borderColor: "gray",

    marginTop: 10,

    padding: 5,

    fontSize: 16,

    outlineStyle: "none",

  },

  button: {

    backgroundColor: "#1044e6",

    height: 50,

    width: "80%",

    marginTop: 20,

    justifyContent: "center",

    alignItems: "center",

  },

  buttonText: {

    color: "white",

    fontSize: 22,

    fontWeight: "600",

  },

  footerText: {

    marginTop: 15,

    fontSize: 18,

  },

  profileContainer: {

    borderColor: "#1044e6",

    borderWidth: 3,

    borderRadius: 10,

    justifyContent: "center",

    height: "300",

    width: "450px",

    marginLeft: "-225px",

    marginTop: "-200px",

    position: "absolute",

    top: "50%",

    left: "50%",

    padding: 20,

  },

  profileText: {

    fontSize: 32,

    fontStyle: "italic",

    fontWeight: "600",

    color: "#1044e6",

    marginTop: 10,

  },

});

**OUTPUT:**

**A screenshot of a login form

Description automatically generated with low confidenceA screenshot of a login form

Description automatically generated with medium confidence**

**A screenshot of a login page

Description automatically generated with medium confidenceA screenshot of a phone

Description automatically generated with low confidence**