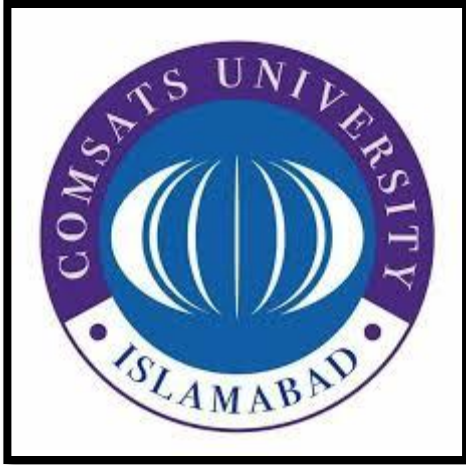


## **Assignment Theory & Lab**



**COMSATS UNIVERSITY ISLAMABAD  
ATTOCK CAMPUS**

## **Mobile Application Development Theory**

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Semester	VI

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## App File

```
import { NavigationContainer } from "@react-navigation/native";
import { createStackNavigator } from "@react-navigation/stack";
import Home from "../stack_screens/home";
import About from "../stack_screens/about";
import SignIn from "../stack_screens/Signin";
import SignUp from "../stack_screens/SignUp";

export default function App() {
  const Stack = createStackNavigator();
  return (
    <NavigationContainer>
      <Stack.Navigator
        initialRouteName="UI"
        screenOptions={{
          headerStyle: { backgroundColor: "blue" },
          headerTitleAlign: 'center',
          headerTitleStyle: { color: 'white', fontSize: 24, fontWeight: 'bold' },
        }}
      >
        <Stack.Screen name="Sign In" component={SignIn}></Stack.Screen>
        <Stack.Screen name="Sign up" component={SignUp}></Stack.Screen>
        <Stack.Screen name="My Profile" component={About}></Stack.Screen>
        <Stack.Screen name="Welcome to Home" component={Home}></Stack.Screen>
      </Stack.Navigator>
    </NavigationContainer>
  );
}
```

## SignIn File

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

```

export default function SignIn({ navigation }) {
  const userInfo = { username: "usama", password: "123" };
  const [Username, setUsername] = useState("");
  const [Password, setPassword] = useState("");
  useEffect(() => {
    getData();
  }, []);

  const getData = () => {
    try {
      AsyncStorage.getItem("UserData").then((value) => {
        if (value != null) {
          navigation.navigate("Welcome to Home")
        }
      });
    } catch (error) {
      console.log(error);
    }
  };

  const _Clickme = async () => {
    if (Username.length == 0 && Password.length == 0) {
      alert("Plz enter right values");
    } else {
      try {
        if (userInfo.username === Username && userInfo.password === Password) {
          await AsyncStorage.setItem("UserData", Username);
          navigation.navigate("Welcome to Home");
        } else alert("enter correct username & password");
      } catch (error) {
        console.log(error);
      }
    }
  };

  const SignUP = () => {
    navigation.navigate("Sign up");
  };

  return (
    <View style={styles.container}>
      <Image style={styles.image} source={require("../assets/log.png")}></Image>
      <Text style={{ color: "white" }}>Welcome To</Text>
      <Text style={styles.text1}>OctoBox</Text>
      <TextInput
        style={styles.input}
        placeholder="Full Name"
      />
    </View>
  );
}

```

```

        onChangeText={({Username}) => setUsername(Username)}
        value={Username}
        placeholderTextColor={"white"}
        underlineColorAndroid={"black"}
        keyboardType="default"
    </TextInput>
    <TextInput
        style={styles.input}
        placeholder="Password"
        onChangeText={({Password}) => setPassword(Password)}
        value={Password}
        placeholderTextColor={"white"}
        underlineColorAndroid={"black"}
        secureTextEntry={true}
    </TextInput>
    <TouchableOpacity style={styles.button} onPress={_Clickme}>
        <Text style={styles.text2}>SIGN IN</Text>
    </TouchableOpacity>
    <Text style={{ color: "white" }}>
        Not a member?
        <TouchableOpacity onPress={SignUP}>
            <Text style={{ color: "white", fontWeight: "bold" }}>
                SIGN UP--{">"}
            </Text>
        </TouchableOpacity>
    </Text>
</View>
);
}
const styles = StyleSheet.create({
    container: {
        flex: 1,
        backgroundColor: "dodgerblue",
        justifyContent: "flex-start",
        alignItems: "center",
    },
    image: {
        margin: 40,
        width: 100,
        height: 100,
    },
    text1: {
        fontSize: 40,
        fontStyle: "normal",
        color: "white",

```

```

    },
    text2: {
      fontSize: 20,
      fontWeight: "bold",
      color: "white",
      textAlign: "center",
    },
    input: {
      margin: 10,
      height: 40,
      width: 300,
      borderWidth: 1,
      borderRadius: 6,
      borderColor: "white",
      color: "white",
    },
    button: {
      margin: 10,
      height: 40,
      width: 300,
      backgroundColor: "blue",
    },
  },
});

```

## HomeScreen File

```

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

export default function Home({ navigation }) {
  const [name, setname] = useState("");
  const Clickme = () => {
    AsyncStorage.clear();
    navigation.navigate("Sign In");
  };
  const Clickhere = () => {
    navigation.navigate("My Profile");
  };
  useEffect(() => {
    getData();
  });
}

```

```

    }, []]);

    const getData = () => {
      try {
        AsyncStorage.getItem("UserData").then((value) => {
          if (value !== null) {
            setname(value);
          }
        });
      } catch (error) {
        console.log(error);
      }
    };

    return (
      <View style={styles.container}>
        <Image style={styles.image} source={require("../assets/img.png")}></Image>
        <Text style={styles.text}>My name is {name}</Text>
        <TouchableOpacity style={styles.button} onPress={Clickhere}>
          <Text style={styles.text1}>My Profile</Text>
        </TouchableOpacity>
        <TouchableOpacity style={styles.button} onPress={Clickme}>
          <Text style={styles.text1}>Logout</Text>
        </TouchableOpacity>
      </View>
    );
  }

  const styles = StyleSheet.create({
    container: {
      flex: 1,
      backgroundColor: "dodgerblue",
      justifyContent: "center",
    },
    image: {
      height: 200,
      width: 450,
      alignSelf: "center",
    },
    text: {
      fontSize: 30,
      fontWeight: "bold",
      textAlign: "center",
      color: "white",
    },
    text1: {

```

```

    fontSize: 20,
    fontWeight: "bold",
    textAlign: "center",
    color: "white",
  },
  button: {
    height: 40,
    width: 300,
    backgroundColor: "blue",
    borderWidth: 2,
    borderRadius: 5,
    borderColor: "white",
    marginTop: 10,
    marginLeft: 90,
  },
});

```

## SignUp File

```

import {
  StyleSheet,
  View,
  Image,
  Text,
  TextInput,
  TouchableOpacity,
} from "react-native";
export default function SignUp({ navigation }) {
  const Clickme = () => {
    navigation.navigate("Welcome to Home");
  }
  const SignIN = () => {
    navigation.navigate("Sign In");
  }
  return (
    <View style={styles.container}>
      <Image style={styles.image} source={require("../assets/log.png")}></Image>
      <Text style={{ color: "white" }}>Welcome To</Text>
      <Text style={styles.text1}>OctoBox</Text>
      <TextInput
        style={styles.input}
        placeholder="Full Name"

```

```

        placeholderTextColor={"white"}
        underlineColorAndroid={"black"}
        keyboardType="default"
    ></TextInput>
    <TextInput
        style={styles.input}
        placeholder="Email"
        placeholderTextColor={"white"}
        underlineColorAndroid={"black"}
        keyboardType="email-address"
    ></TextInput>
    <TextInput
        style={styles.input}
        placeholder="Password"
        placeholderTextColor={"white"}
        underlineColorAndroid={"black"}
        secureTextEntry={true}
    ></TextInput>
    <TextInput
        style={styles.input}
        placeholder="Confirm Password"
        placeholderTextColor={"white"}
        underlineColorAndroid={"black"}
        secureTextEntry={true}
    ></TextInput>
    <TouchableOpacity style={styles.button} onPress={Clickme}>
        <Text style={styles.text2}>SIGN UP</Text>
    </TouchableOpacity>
    <Text style={{ color: "white" }}>
        Already a member?
        <TouchableOpacity onPress={SignIn}>
            <Text style={{ color: "white", fontWeight: "bold" }}>
                SIGN IN--{">"}
            </Text>
        </TouchableOpacity>
    </Text>
</View>
);
}
const styles = StyleSheet.create({
    container: {
        flex: 1,
        backgroundColor: "dodgerblue",
        justifyContent: "flex-start",
        alignItems: "center",
    },
});

```



```

    },
    image: {
      margin: 60,
      width: 100,
      height: 100,
    },
    text1: {
      fontSize: 40,
      fontStyle: "normal",
      color: "white",
    },
    text2: {
      fontSize: 20,
      fontWeight: "bold",
      color: "white",
      textAlign: "center",
    },
    input: {
      margin: 15,
      height: 60,
      width: 300,
      color: "white",
      borderWidth: 3,
      borderRadius: 6,
      borderColor: "blue",
    },
    button: {
      margin: 10,
      height: 40,
      width: 300,
      backgroundColor: "blue",
    },
  },
});

```

## MyProfile File

```

import { StyleSheet, View, Image, Text } from "react-native";
import React from "react";

export default function About() {
  return (
    <View style={styles.container}>

```

```

        <Image style={styles.image} source={require("../assets/me.png")}></Image>
        <Text style={styles.text}>Name:- Usama Bin Arshad</Text>
        <Text style={styles.text}>Reg No:- SP20-BSE-020</Text>
        <Text style={styles.text}>Current Status:- Student</Text>
        <Text style={styles.text}>University:- CUI Attock Campus</Text>
        <Text style={styles.text}>Age:- 21</Text>
    </View>
  );
}

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: "dodgerblue",
    justifyContent: "center",
  },
  image: {
    height: 250,
    width: 250,
    alignSelf: "center",
    marginBottom: 10
  },
  text: {
    marginTop: 10,
    fontSize: 30,
    fontStyle: 'italic',
    fontWeight: 'bold',
    color: 'white',
    borderWidth: 3,
    borderColor: 'darkblue',
    textAlign: 'center'
  }
});

```