COMSATS UNIVERSITY ISLAMABAD
ATTOCK CAMPUS

Mobile Application Development Theory

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Program	BS-(SE)
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Assignment	03

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App.js

```javascript
import { NavigationContainer } from "@react-navigation/native";
import { createStackNavigator } from "@react-navigation/stack";
import SignIn_Screen from "./components/SignInScreen";
import HomeScreen from "./components/HomeScreen";
import AboutScreen from "./components/AboutScreen";

export default function App() {
  const Stack = createStackNavigator();
  return (
    <NavigationContainer>
      <Stack.Navigator
        initialRouteName="Sign In"
        screenOptions={{
          headerStyle: { backgroundColor: "steelblue" },
          headerTitleAlign:'center',
          headerTitleStyle: {color:'black',fontSize:24,fontWeight:'bold'},
        }}
      >
        <Stack.Screen name="Sign In" component={SignIn_Screen}></Stack.Screen>
        <Stack.Screen name="Home" component={HomeScreen}></Stack.Screen>
        <Stack.Screen name="My Profile" component={AboutScreen}></Stack.Screen>
      </Stack.Navigator>
    </NavigationContainer>
  );
}
```

SignIn.js

```javascript
import React from "react";
import {
  StyleSheet,
  View,
  Text,
  TextInput,
  TouchableOpacity,
  Image,
} from "react-native";
```

```jsx
import AsyncStorage from "@react-native-async-storage/async-storage";
import { useState, useEffect } from "react";
export default function SignIn_Screen({ navigation }) {
  const [username, setusername] = useState("");
  const [Password, setpassword] = useState("");

  const clickhere = async () => {
    if (username.length == 0 || Password.length == 0) {
      alert("empty value");
    } else {
      try {
        await AsyncStorage.setItem("UserData", username);
        navigation.navigate("Home");
      } catch (error) {
        console.log(error);
      }
    }
  };
  useEffect(() => {
    getData();
  }, []);

  const getData = () => {
    try {
      AsyncStorage.getItem("UserData").then((value) => {
        if (value != null) {
          navigation.navigate("Home");
        }
      });
    } catch (error) {
      console.log(error);
    }
  };
  return (
    <View style={styles.container}>
    <View>
        <Image style={styles.image}
source={require("../assets/madnilogo.png")}></Image>
      <TextInput
        placeholder="Enter Username"
        style={styles.input1}
        onChangeText={(username) => setusername(username)}
        value={username}
      ></TextInput>
      <TextInput
```

```
            placeholder="Enter Password"
            style={styles.input2}
            onChangeText={(Password) => setpassword(Password)}
            value={Password}
        ></TextInput>
        <TouchableOpacity style={styles.button} onPress={clickhere}>
            <Text style={{ textAlign: "center", fontSize: 20, fontWeight: "bold" }}>
                Login
            </Text>
        </TouchableOpacity>
    </View>
    </View>
    );
}
const styles = StyleSheet.create({
    container: {
        backgroundColor: "cadetblue",
        flex: 1,
        flexDirection: "column",
        textDecorationColor: "blue",
    },
    input1: {
        height: 50,
        width: 300,
        borderWidth: 2,
        borderRadius: 5,
        backgroundColor: "white",
        borderColor: "black",
        paddingLeft: 10,
        alignSelf:'center',
        marginTop:90
    },
    input2: {
        height: 50,
        width: 300,
        borderWidth: 2,
        borderRadius: 5,
        backgroundColor: "white",
        borderColor: "black",
        paddingLeft: 10,
        alignSelf:'center',
        marginTop:10
    },
    button: {
        height: 40,
```

```
    width: 300,
    backgroundColor: "steelblue",
    borderColor: "black",
    borderWidth: 2,
    alignSelf:'center',
    marginTop:50
  },
  image:{
    height:200,
    width:250,
    alignSelf:'center',
    marginTop:70
  }
});
```

HomeScreen.js

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

export default function HomeScreen({navigation}) {
  const clickhere=()=>{
    navigation.navigate('My Profile')
  }
  const clickme=()=>{
    AsyncStorage.clear()
    navigation.navigate('Sign In')
  }
  const[name,setname]=useState('')
  useEffect(() => {
    getData();
  }, []);
  const getData = async() => {
    try {
      AsyncStorage.getItem("UserData").then((value) => {
        if (value != null) {
          setname(value);
        }
      });
    } catch (error) {
      console.log(error);
    }
```

```jsx
  }
  return (
    <View style={styles.container}>
      <Image
        style={styles.image}
        source={require("../assets/madni.png")}
      ></Image>
      <Text style={{fontSize:40,fontStyle:'italic',textAlign:'center'}}>Welcome
{name}</Text>
      <TouchableOpacity style={styles.button} onPress={clickhere}>
        <Text style={{ textAlign: "center", fontSize: 20, fontWeight: "bold" }}>
          About Me
        </Text>
      </TouchableOpacity>
      <TouchableOpacity style={styles.button1} onPress={clickme}>
        <Text style={{ textAlign: "center", fontSize: 20, fontWeight: "bold" }}>
          Logout
        </Text>
      </TouchableOpacity>
    </View>
  );
}

const styles = StyleSheet.create({
  container: {
    backgroundColor: "cadetblue",
    flex: 1,
    flexDirection: "column",
    justifyContent: "center",
    alignItems: "center",
    textAlign: "Center",
    textDecorationColor: "blue",
  },
  image:{
    height:150,
    width:200,
    alignSelf:'center',
    marginTop:50
  },
  button: {
    height: 40,
    width: 300,
    backgroundColor: "steelblue",
    borderColor: "black",
    borderWidth: 2,
```

```
      marginTop:300,
      alignSelf:'center'
  },
  button1: {
    height: 40,
    width: 300,
    backgroundColor: "steelblue",
    borderColor: "black",
    borderWidth: 2,
    marginTop:10,
    alignSelf:'center'
  }
});
```

AboutScreen.js

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

export default function AboutScreen() {
  return (
    <View style={styles.container}>
      <Text style={styles.Text}>Profile</Text>
      <Text style={styles.Text}>Setting</Text>
      <Text style={styles.Text}>Privacy</Text>
      <Text style={styles.Text}>About</Text>
      <Text style={styles.Text}>Story</Text>

    </View>
  )
}

const styles = StyleSheet.create({
  container: {
    flex:1,
    backgroundColor: "cadetblue",
    flexDirection: "column",
    justifyContent: "center",
  },
  Text:{
    fontSize:40,
    fontWeight:'bold',
```

```
    fontStyle:'italic',
    borderRadius:5,
    borderWidth:2,
    borderColor:'black',
    backgroundColor:'steelblue',
    marginTop:10,
    paddingLeft:10,
    color:'black'
  }
})
```

Outputs:-