# Department of Computing

**CS-213: Advanced Programming**

**Class: BSCS 7AB**

# Lab 12: React Native Login Application

**Date: 12 December, 2019**

**Time: 10:00-01:00pm & 02:00-05:00pm**

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# Lab 12: React Native Login Application

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| **Solution** |
| **Task Code:** App.js **import \* as React from 'react';**  **import { Text, TextInput, View, StyleSheet, Button } from 'react-native';**  **import Constants from 'expo-constants';**  **import { createAppContainer } from 'react-navigation';**  **import { createStackNavigator } from 'react-navigation-stack';**  **import Home from './components/Home';**  **import Dashboard from './components/Dashboard';**  **const appContainer = createStackNavigator({**  **home: Home,**  **dashboard: Dashboard**  **})**  **export default createAppContainer(appContainer);** style.js **import { StyleSheet } from 'react-native';**  **export default StyleSheet.create({**  **heading: {**  **fontSize: 30,**  **textAlign: 'center',**  **marginTop: 130,**  **fontStyle: 'Arial',**  **marginBottom: 10**  **},**  **basic: {**  **fontSize: 15,**  **marginBottom: 5,**  **marginLeft: 75**  **},**  **button: {**  **marginLeft: 145,**  **width: 70**  **},**  **input: {**  **align: 'center',**  **fontSize: 15,**  **textAlign: 'left',**  **marginBottom: 20,**  **borderWidth: 1,**  **borderColor: 'pink',**  **height: 25,**  **width: 200,**  **marginLeft: 80**  **}**  **})** Home’s index.js **import \* as React from 'react';**  **import { Text, TextInput, View, StyleSheet, Button, Alert } from 'react-native';**  **import Constants from 'expo-constants';**  **import styles from './style';**  **import \* as data from './details.json';**  **export default class Home extends React.Component {**  **constructor(){**  **super();**  **this.state = { username: "", password: ""};**  **}**  **static navigationOptions = {**  **header: null**  **}**  **checkLogin(){**  **const { username, password } = this.state;**  **var details = data.details;**  **var search = details.find(n => n.username == username && n.password == password)**  **if (search){**  **this.props.navigation.navigate('dashboard', {username:username});**  **}**  **else{**  **Alert.alert("Invalid entries", "Username and password do not match :(", [{text: 'Okay'}]);**  **}**  **}**  **render() {**  **const { heading, input, basic, button } = styles;**  **return (**  **<View>**  **<Text style = { heading }>Login Here!</Text>**  **<Text style = { {fontSize: 12, textAlign: 'center', marginBottom: 30, color: 'pink'} }>Enter your details </Text>**  **<Text style = { basic }> Username: </Text>**  **<TextInput style = { input } placeholder = "Enter username" onChangeText={ text => this.setState({ username: text})} />**  **<Text style = { basic }> Password: </Text>**  **<TextInput style = { input } placeholder = "Enter password" secureTextEntry={true} onChangeText={ text => this.setState({ password: text })}/>**  **<View style = { button } ><Button color = 'pink' title = {"Login"} onPress = {\_ => this.checkLogin()}/></View>**  **</View>**  **);**  **}**  **}** Dashboard’s index.js **import \* as React from 'react';**  **import { Text, TextInput, View, StyleSheet, Button } from 'react-native';**  **import Constants from 'expo-constants';**  **import styles from './style';**  **export default class Dashboard extends React.Component {**  **constructor() {**  **super();**  **}**  **static navigationOptions = {**  **header: null**  **}**  **logout(){**  **this.props.navigation.navigate('home');**  **}**  **render() {**  **const { heading, basic, button } = styles;**  **return (**  **<View>**  **<Text style = { heading }>Dashboard </Text>**  **<Text style = { basic }>Hi! {this.props.navigation.getParam('username','default')}</Text>**  **<View style = { button } ><Button color = 'pink' title = {"Logout"} onPress = {\_ => this.logout()}/></View>**  **</View>**  **);**  **}**  **}** details.json **{**  **details:**  **[{**  **username:"admin",**  **password:"admin"**  **},**  **{**  **username:"amnomaly",**  **password:"amna"**  **},**  **{**  **username:"sh.immadamir",**  **password:"immad"**  **},**  **{**  **username:"ay.by.ji",**  **password:"ayesha"**  **}]**  **}**  **Task Output Screenshot:**  **Screenshot_2019-12-12-13-54-19-06**  **Screenshot_2019-12-12-13-54-27-54Screenshot_2019-12-12-13-54-31-72**  **Screenshot_2019-12-12-13-54-35-68** |