# Ishmal Tahir

# 225868

# BSCS 7B

# Department of Computing

**CS-213: Advanced Programming**

# Lab 12: React Native Login Application

**Date: 12 December, 2019**

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

# Instructor: Dr. Sidra Sultana

**Lab Engineer: Ms. Ayesha Asif**

# 

# Lab 12: React Native Login Application

**Introduction**

React Native combines the best parts of native development with React, a best-in-class JavaScript library for building user interfaces.

**Objectives**

This lab will get students familiar with the React Native application Development.

**Tools/Software Requirement**

React native, Android Studio, JDK, node JS

**Description**

**Reference Videos**

<https://www.youtube.com/watch?v=0q3Jy0ZgzIw&list=PLYxzS__5yYQlHANFLwcsSzt3elIbYTG1h&index=23&t=0s>

<https://www.youtube.com/watch?v=6Z3bscC7p5Y&list=PLYxzS__5yYQlHANFLwcsSzt3elIbYTG1h&index=23>

<https://www.youtube.com/watch?v=StT6FZCBgN4&list=PLYxzS__5yYQlHANFLwcsSzt3elIbYTG1h&index=24>

<https://www.youtube.com/watch?v=2Uq3B3lskPM>

<https://www.youtube.com/watch?v=2Ok2dRg5vlk&list=PLYxzS__5yYQlHANFLwcsSzt3elIbYTG1h&index=26>

<https://www.youtube.com/watch?v=LfP7d09xjpI&list=PLYxzS__5yYQlHANFLwcsSzt3elIbYTG1h&index=27>

**Lab Task**

Create a login Application in react native

|  |
| --- |
| Solution |
| Folders and Files:  App  Components  Dashboard  Index.js  Home  Index.js  Styles.js  Users.json  App.js  Code: Dashboard/Index.js import React,{Component} from 'react';  import {View,Text} from 'react-native';  export class Dashboard extends Component {  render() {  return(  <View>  <Text>Dashboard</Text>  </View>  )  }  } Home/Index.js import React, {Component} from 'react'  import {Button,View,TextInput,Text, Alert} from 'react-native'  import styles from './styles'  import \* as data from './users.json'  export class Home extends Component {  state = {username:"", password:""}  static navigationOptions = {  header: null  }  checkLogin(){  const { username, password} = this.state  var users=data.users  var auth=users.find(user=>username==username && user.password==password)  if(auth){  this.props.navigation.navigate('dashboard')  }  else{  Alert.alert('Error','Username/Password mismatch', [{  text:'Okay'  }])  }  }  render() {  const { heading, input, parent } = styles  return(  <View style={parent}>  <Text style={heading}> Login to the application</Text>  <TextInput style={input} placeholder="Username" onChangeText={text => this.setState({username: text })} />  <TextInput style={input} secureTextEntry={true} placeholder="Password" onChangeText={text => this.setState({password: text})}/>  <Button title={"Login"} onPress={() => this.checkLogin()} />  </View>  )  }  } Home/Styles.js import {StyleSheet} from 'react-native'  export default StyleSheet.create({  heading: {  fontSize:25,  textAlign: 'center'  },  input: {  marginLeft: 20,  marginRight:20,  marginTop: 30,  marginBottom:20,  borderColor: 'black',  borderBottomWidth: 2  },  parent: {  flex: 1,  justifyContent: 'center'  }  }) Home/Users.json {  "users": [{  "user": "aaa",  "password": "aaa"    },  {  "user": "admin",  "password": "admin"  }  ]  } App.js import React,{Component} from 'react';  import {createAppContainer} from 'react-navigation';  import {createStackNavigator} from 'react-navigation-stack';  import {Home} from './App/Components/Home/index';  import {Dashboard} from './App/Components/Dashboard';  const appContainer = createStackNavigator(  {  home: Home,  dashboard:Dashboard  }  )  export default createAppContainer(appContainer)  Task Output Screenshot:  C:\Users\itahir.bscs17seecs\Downloads\Screenshot_20191212_123439_host.exp.exponent.jpg  Main Screen Output  C:\Users\itahir.bscs17seecs\Downloads\Screenshot_20191212_123515_host.exp.exponent.jpg  If a pair of invalid username and password is entered  C:\Users\itahir.bscs17seecs\Downloads\Screenshot_20191212_123509_host.exp.exponent.jpg  Error is displayed  C:\Users\itahir.bscs17seecs\Downloads\Screenshot_20191212_123524_host.exp.exponent.jpg  Enter correct pair of username and password  C:\Users\itahir.bscs17seecs\Downloads\Screenshot_20191212_123546_host.exp.exponent.jpg  Dashboard accessed  C:\Users\itahir.bscs17seecs\Downloads\Screenshot_20191212_123543_host.exp.exponent.jpg  Example of another correct pair of username and password  C:\Users\itahir.bscs17seecs\Downloads\Screenshot_20191212_123546_host.exp.exponent.jpg  Dashboard accessed |

### Deliverable

Compile a single word document by filling in the solution part and submit this Word file on LMS. This lab grading policy is as follows: The lab is graded between 0 to 10 marks. The submitted solution can get a maximum of 5 marks. At the end of each lab or in the next lab, there will be a viva/quiz related to the tasks. You must show the implementation of the tasks in the designing tool, along with your complete Word document to get your work graded. You must also submit this Word document on the LMS. In case of any problems with submissions on LMS, submit your Lab assignments by emailing it to Ms. Ayesha Asif: [ayesha.asif@seecs.edu.pk](mailto:ayesha.asif@seecs.edu.pk).