# 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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**BSCS-7A**

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# Lab 12: React Native Login Application

**Lab Task**

Create a login Application in react native

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| Solution |
| Task Code:  App.js  import React, { Component } from 'react';  import {  StyleSheet,  View,  StatusBar  } from 'react-native';    import Routes from './src/Routes';    export default class App extends Component {  render() {  return (  <View style={styles.container}>  <StatusBar  backgroundColor="#002f6c"  barStyle="light-content"  />  <Routes/>  </View>  );  }  }    const styles = StyleSheet.create({  container: {  flex: 1,  }  });  Routes.js  import React, { Component } from 'react';  import {Router, Stack, Scene} from 'react-native-router-flux';    import Login from './pages/Login';  import Signup from './pages/Signup';    export default class Routes extends Component {  render() {  return (  <Router barButtonIconStyle ={styles.barButtonIconStyle}  hideNavBar={false}  navigationBarStyle={{backgroundColor: 'maroon',}}  titleStyle={{color: 'white',}}  >  <Stack key="root">  <Scene key="login" component={Login} title="Login"/>  <Scene key="signup" component={Signup} title="Sign up"/>  </Stack>  </Router>  )  }  }    const styles = {  barButtonIconStyle: {  tintColor: 'white'  }  }  Form.js  import React, { Component } from 'react';  import { StyleSheet, Text, View, TextInput, TouchableOpacity, AsyncStorage, Keyboard } from 'react-native';    import {Actions} from 'react-native-router-flux';    export default class Form extends Component {    constructor(props){  super(props);  this.state={  email:'',  password: ''  }  }    saveData =async()=>{  const {email,password} = this.state;    *//save data with asyncstorage*  let loginDetails={  email: email,  password: password  }    if(this.props.type !== 'Login')  {  AsyncStorage.setItem('loginDetails', JSON.stringify(loginDetails));    Keyboard.dismiss();  alert("You successfully registered. Email: " + email + ' password: ' + password);  this.login();  }  else if(this.props.type == 'Login')  {  try{  let loginDetails = await AsyncStorage.getItem('loginDetails');  let ld = JSON.parse(loginDetails);    if (ld.email != null && ld.password != null)  {  if (ld.email == email && ld.password == password)  {  alert('Go in!');  }  else  {  alert('Email and Password does not exist!');  }  }    }catch(error)  {  alert(error);  }  }  }    showData = async()=>{  let loginDetails = await AsyncStorage.getItem('loginDetails');  let ld = JSON.parse(loginDetails);  alert('email: '+ ld.email + ' ' + 'password: ' + ld.password);  }    render() {  return(  <View style={styles.container}>  <TextInput style={styles.inputBox}  onChangeText={(email) => this.setState({email})}  underlineColorAndroid='rgba(0,0,0,0)'  placeholder="Email"  placeholderTextColor = "#002f6c"  selectionColor="#fff"  keyboardType="email-address"  onSubmitEditing={()=> this.password.focus()}/>    <TextInput style={styles.inputBox}  onChangeText={(password) => this.setState({password})}  underlineColorAndroid='rgba(0,0,0,0)'  placeholder="Password"  secureTextEntry={true}  placeholderTextColor = "#002f6c"  ref={(input) => this.password = input}  />    <TouchableOpacity style={styles.button}>  <Text style={styles.buttonText} onPress={this.saveData}>{this.props.type}</Text>  </TouchableOpacity>  </View>    )  }  }    const styles = StyleSheet.create({  container: {  justifyContent: 'center',  alignItems: 'center',  },  inputBox: {  width: 300,  backgroundColor: '#eeeeee',  borderRadius: 25,  paddingHorizontal: 16,  fontSize: 16,  color: 'green',  marginVertical: 10  },  button: {  width: 300,  backgroundColor: 'black',  borderRadius: 25,  marginVertical: 10,  paddingVertical: 12  },  buttonText: {  fontSize: 16,  fontWeight: '500',  color: '#ffffff',  textAlign: 'center'  }  });  Login.js  import React, { Component } from 'react';  import { StyleSheet, Text, View, TextInput, TouchableOpacity, AsyncStorage, Keyboard } from 'react-native';    import {Actions} from 'react-native-router-flux';    import Form from '../components/Form';    export default class Login extends Component {    signup() {  Actions.signup()  }    render() {  return(  <View style={styles.container}>  <Text>{'\n'}</Text>  <Text>{'\n'}</Text>  <Form type="Login"/>  <View style={styles.signupTextCont}>  <Text style={styles.signupText}>Dont have an account yet? </Text>  <TouchableOpacity onPress={this.signup}><Text style={styles.signupButton}>Signup</Text></TouchableOpacity>  </View>  </View>  )  }  }    const styles = StyleSheet.create({  container: {  flex: 1,  justifyContent: 'center',  alignItems: 'center',  backgroundColor: '#d3d3d3',  },  signupTextCont: {  flexGrow: 1,  justifyContent: 'center',  alignItems: 'flex-end',  paddingVertical: 16,  flexDirection: 'row',  },  signupText: {  color: 'green',  fontSize:16,  },  signupButton: {  color: 'maroon',  fontSize:16,  fontWeight: '500',  }  });  Signup.js  import React, { Component } from 'react';  import {  StyleSheet,  Text,  View,  TouchableOpacity  } from 'react-native';    import Form from '../components/Form';    import {Actions} from 'react-native-router-flux';    export default class Signup extends Component {    goBack() {  Actions.pop()  }    render() {  return(  <View style={styles.container}>  <Text>{'\n'}</Text>  <Text>{'\n'}</Text>  <Form type="Signup"/>  <View style={styles.signupTextCont}>  <Text style={styles.signupText}>Already have an account? </Text>  <TouchableOpacity onPress={this.goBack}><Text style={styles.signupButton}>Sign in</Text></TouchableOpacity>  </View>  </View>  )  }  }    const styles = StyleSheet.create({  container: {  flex: 1,  justifyContent: 'center',  alignItems: 'center',  backgroundColor: '#d3d3d3'  },  signupTextCont: {  flexGrow: 1,  justifyContent: 'center',  alignItems: 'flex-end',  paddingVertical: 16,  flexDirection: 'row'  },  signupText: {  color: 'green',  fontSize:16  },  signupButton: {  color: 'maroon',  fontSize:16,  fontWeight: '500'  }  });  Task Output Screenshot: |