# 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**

# 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 |
| Task Code:  import React, {Component} from 'react';  import {  Text,  View,  StyleSheet,  Button,  TextInput,  TouchableOpacity,  } from 'react-native';  import { createAppContainer } from 'react-navigation';  import { createStackNavigator } from 'react-navigation-stack';  class DetailsScreen extends Component {  static navigationOptions = {  header: null,  title: 'Welcome to App',  };  }  class Home extends Component {  static navigationOptions = {  header: null,  };  render() {  return (  <View style={styles.container}>  <Text style={styles.loginText}>Login Screen</Text>  <TextInput style={styles.input} placeholder="Username" />  <TextInput  style={styles.input}  placeholder="Password"  secureTextEntry  />  <View style={styles.btnContainer}>  <TouchableOpacity  style={styles.userBtn}  onPress={() => this.props.navigation.navigate('details')}>  <Text style={styles.BtnTxt}>Login </Text>  </TouchableOpacity>  </View>  </View>  );  }  }  const RootStack = createStackNavigator(  {  home: Home,  details: DetailsScreen,  },  {  initialRouteName: 'home',  defaultNavigationOptions: {  headerStyle: {  backgroundColor: 'black',  },  },  }  );  const AppContainer = createAppContainer(RootStack);  export default class App extends Component {  render = () => {  return <AppContainer />;  };  }  const styles = StyleSheet.create({  container: {  flex: 1,  justifyContent: 'center',  alignItems: 'center',  backgroundColor: 'black',  },  loginText: {  fontSize: 30,  textAlign: 'center',  margin: 10,  color: 'white',  },  input: {  width: '90%',  backgroundColor: 'white',  padding: 15,  margin: 10,  },  userBtn: {  backgroundColor: 'white',  padding: 15,  width: '45%',  },  BtnTxt: {  fontSize: 15,  textAlign: 'center',  },  btnContainer: {  flexDirection: 'row',  justifyContent: 'space-between',  width: '90%',  },  });  Task Output Screenshot: |

### 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).