# Department of Computing

**Osama Akhlaq(213452)**

**CS-213: Advanced Programming**

**Class: BSCS 7A**

# Lab 11: React Native Calculator Application

**Date: 05 December, 2019**

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

# Instructor: Dr. Sidra Sultana

**Lab Engineer: Ms. Ayesha Asif**

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# Lab 11: React Native Calculator 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

**Lab Task**

Create a basic calculator app in react native

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| --- |
| Solution |
| Task Code:  /\*\*  \* Sample React Native App  \* https://github.com/facebook/react-native  \*  \* @format  \* @flow  \*/  import React,{Component} from 'react';  import {  StyleSheet,Text,View,  Button,  TouchableOpacity  } from 'react-native';  export default class App extends Component  {  constructor()  {  super()  this.state = {}  }  render()  {  return(  let rows=[]  let nums =[[1,2,3],[4,5,6],[7,8,9],[0,0,'=']]  for(let i= 0;i<4;i++)  {  let row = []  for(let j=0;j<3;j++)  {  row.push(  <TouchableOpacity style={styles.btn}>  <Text style={[styles.btntext, styles.white]}>{nums[i][j]}</Text>  </TouchableOpacity>  )  }  rows.push(<View style={styles.row}>{row}</View>)  }  let operations = ['\*','-','+','/']  let ops = []  for(let i=0;i<4;i++)  {  ops.push(  <TouchableOpacity> styles={styles.btn}>  <Text style = {[styles.btntext,styles.white]}> </Text>  </TouchableOpacity>  )  }  <View style={styles.conatiner}>  <View style={styles.result}>  <Text style ={styles.resultText}>  </Text>  </View >  <View style={styles.calculation}>  <Text style={styles.calculationText}> </Text>  </View>  <View style={styles.buttons}>  <View style={styles.numbers}>  {row}  </View>  </View>  <View style={styles.operations}>  {ops}  </View>  </View>  </View>  );  }  }  const styles = StyleSheet.create  (  {  container:{  flex:1  },  white:  {  color:white  }  row:{  flexDirection:'row',  flex:1,  justifyContent:'space-around',  alignItems:'center'  },  result:{  flex:2,  backgroundColor:'red',  justifyContent:'center',  alignItems:'flex-end'  },  calculation:{  flex:1,  backgroundColor:'green'  },  buttons:{flexGrow:1,  flexDirection:'row'  },  numbers:{  flex:3,  backgroundColor:'yellow'  },  operations:{  flex:1,  justifyContent:'space-around',  alignItems:'stretch',  backgroundColor:'black'  },  resultText:{  fontSize:30,  color:'white'  },  calculationText:{  fontSize:24,  color:'white'  }  }  );  Task Output Screenshot: |