# Department of Computing

**CS-213: Advanced Programming**

**Class: BSCS 7AB**

# Lab 11: React Native Calculator Application

**Date: 05 December, 2019**

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

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# Lab 11: React Native Calculator Application

**Lab Task**

Create a basic calculator app in react native

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| Solution |
| Task Code:  import \* as React from 'react';  import { Text, View, StyleSheet, TouchableOpacity } from 'react-native';  import Constants from 'expo-constants';  *// You can import from local files*  import AssetExample from './components/AssetExample';  *// or any pure javascript modules available in npm*  import { Card } from 'react-native-paper';  export default class App extends React.Component {  constructor(){  super();  this.state = {  input: '',  output: ''  }  }  press = (input)=> {  this.setState(  {  input : this.state.input + input  }  )  }  clear = ()=>{  this.setState(  {  input: "",  output: ""  }  )  }  equal = ()=>{  this.setState(  {  output: eval(this.state.input)  }  )  }  render() {  return (  <View style={styles.container}>  <View style={styles.inscreen}>  <Text style={styles.indbtn}>{this.state.input}</Text>  </View>  <View style={styles.outscreen}>  <Text style={styles.indbtn}>{this.state.output}</Text>  </View>  <View style={styles.btns}>  <View style={styles.numbers}>  <View style={styles.row}>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("7")}}>  <Text style={styles.indbtn}>7</Text>  </TouchableOpacity>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("8")}}>  <Text style={styles.indbtn}>8</Text>  </TouchableOpacity>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("9")}}>  <Text style={styles.indbtn}>9</Text>  </TouchableOpacity>  </View>  <View style={styles.row}>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("4")}}>  <Text style={styles.indbtn}>4</Text>  </TouchableOpacity>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("5")}}>  <Text style={styles.indbtn}>5</Text>  </TouchableOpacity>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("6")}}>  <Text style={styles.indbtn}>6</Text>  </TouchableOpacity>  </View>  <View style={styles.row}>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("1")}}>  <Text style={styles.indbtn}>1</Text>  </TouchableOpacity>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("2")}}>  <Text style={styles.indbtn}>2</Text>  </TouchableOpacity>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("3")}}>  <Text style={styles.indbtn}>3</Text>  </TouchableOpacity>  </View>  <View style={styles.row}>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("0")}}>  <Text style={styles.indbtn}>0</Text>  </TouchableOpacity>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press(".")}}>  <Text style={styles.indbtn}>.</Text>  </TouchableOpacity>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.equal()}}>  <Text style={styles.indbtn}>=</Text>  </TouchableOpacity>  </View>  </View>  <View style={styles.operands}>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("/")}}>  <Text style={styles.indbtn}>/</Text>  </TouchableOpacity>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("\*")}}>  <Text style={styles.indbtn}>x</Text>  </TouchableOpacity>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("-")}}>  <Text style={styles.indbtn}>-</Text>  </TouchableOpacity>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.press("+")}}>  <Text style={styles.indbtn}>+</Text>  </TouchableOpacity>  <TouchableOpacity style={styles.rowbtns} onPress={()=>{this.clear()}}>  <Text style={styles.indbtn}>C</Text>  </TouchableOpacity>  </View>  </View>    </View>  );  }  }  const styles = StyleSheet.create({  container: {  flex: 1,  justifyContent: 'center',  paddingTop: Constants.statusBarHeight,  backgroundColor: '#ecf0f1',  padding: 8,  },  inscreen: {  flex: 2,  backgroundColor: 'gray'  },  outscreen: {  flex: 1,  backgroundColor: 'gray'  },  btns: {  flexDirection: 'row',  flex: 7  },  numbers: {  flex: 3,  backgroundColor: 'black'  },  operands: {  flex: 1,  backgroundColor: 'orange'  },  row: {  flex: 1,  flexDirection: 'row',  justifyContent: 'center',  alignItems: 'center',  },  rowbtns: {  flex: 1,  justifyContent: 'center',  alignItems: 'center'  },  indbtn: {  fontSize: 20,  color: 'white'  },  });  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).