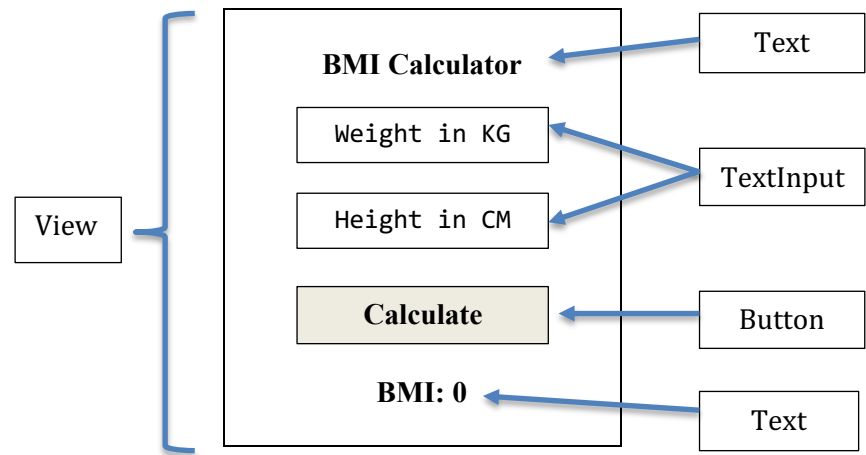


Building React Native App

1. Building a BMI Calculator app.



2. Break the design into presentational components.

Component	Description
1. <View>...</View>	To render the app.
2. <Text>...</Text>	To display the title and result of BMI calculation.
3. <TextInput/>	To get inputs for Weight & Height from users.
4. <Button/>	An event trigger to perform a calculation for BMI.
5. Alert.alert()	To display BMI status with native alert(iOS & Android).

Summary

Main Points/Key Points	Notes
	Building React Native App
	3. Creating a BMI Calculator Project.
	a. Create a BMI Calculator project using command (CLI).

Native Code
Windows & Mac react-native init BMICalculator
Without Native Code
Windows & Mac expo init BMICalculator

b. React Native project structure and its folders.
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File Name	Description
android	It contains android platform and its specific code.
ios	It contains iOS platform and its specific code.
node_modules	npm dependencies and recorded in package.json file.
.flowconfig	Flow feature, type checking for JavaScript.
.gitignore	File paths for non-version control.
.watchmanconfig	File watcher records any changes to the file. Configuration for watchman.
index.js	entry point of the application. App.js is imported in this file.
App.js	Default code for the React Native app (can be replaced using index.js).
package.json	It holds all the npm configurations.

	Summary
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Main Points/Key Points

Notes

Building React Native App

4. Constructor.

Set Initial State

```
constructor(){
  super();
  this.state = {
    weight: 0,
    height: 0,
    bmi: 0
  }
}
```

5. Calculate BMI.

Update State

```
calculateBMI = () => {
  this.setState({bmi: Number((
    this.state.weight/Math.pow(this.state.height,2)
  ) * 10000).toFixed(1)}),
  () => {
    if(this.state.bmi < 18.5){
      Alert.alert('You are underweight!');
    } else if(this.state.bmi >= 18.5 &&
      this.state.bmi <= 24.9){
      Alert.alert('You are having a normal
        weight. Well done!');
    } else if(this.state.bmi >= 25 &&
      this.state.bmi <= 29.9){
      Alert.alert('You are overweight!');
    } else if(this.state.bmi >= 30){
      Alert.alert('You are obese. Please watch
        your diet!');
    }
  }
});
}
```

Summary

Main Points/Key Points	Notes
	<div><div>Building React Native App</div><div>6. Render Presentational Components.</div><div><div>Display Output</div><pre>render() { return (<View> <Text>BMI Calculator</Text> <TextInput onChangeText={({weight) => this.setState({weight})} placeholder='Weight in KG' /> <TextInput onChangeText={({height) => this.setState({height})} placeholder='Height in CM' /> <Button color="#841584" onPress={this.calculateBMI} title='Calculate' /> <Text>BMI: {this.state.bmi}</Text> </View>); }</pre></div><div>7. References</div><div><div>a. Dabit, N. (2018). <i>React Native in Action</i>. New York, NY: Manning Publications Co.</div><div>b. Facebook Inc. React Native Reference, version 0.57. Available at https://facebook.github.io/react-native/</div></div></div> <div>Summary</div>