

Mobile Development



React Native

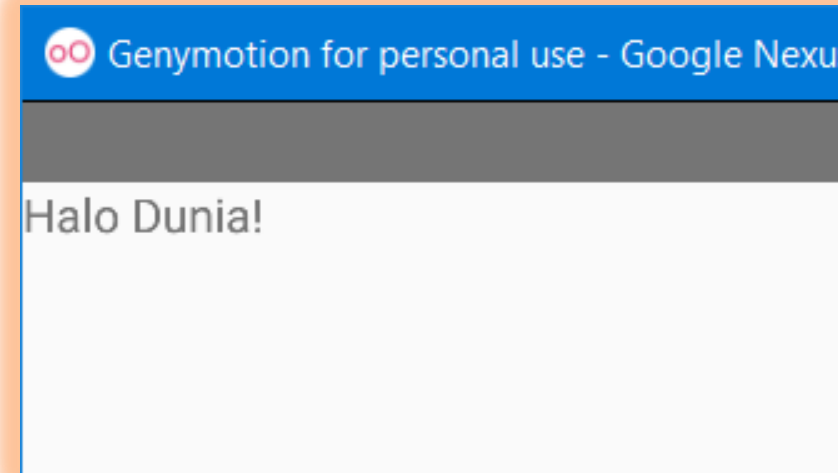
#3 Basic Components

View & Text

```
import React, { Component } from 'react';  
import { Text, View } from 'react-native';
```

```
var kalimat = 'Halo Dunia!';  
class App extends Component {  
  render() {  
    return (  
      <View>  
        <Text>  
          { kalimat }  
        </Text>  
      </View>  
    );  
  }  
}
```

```
export default App;
```

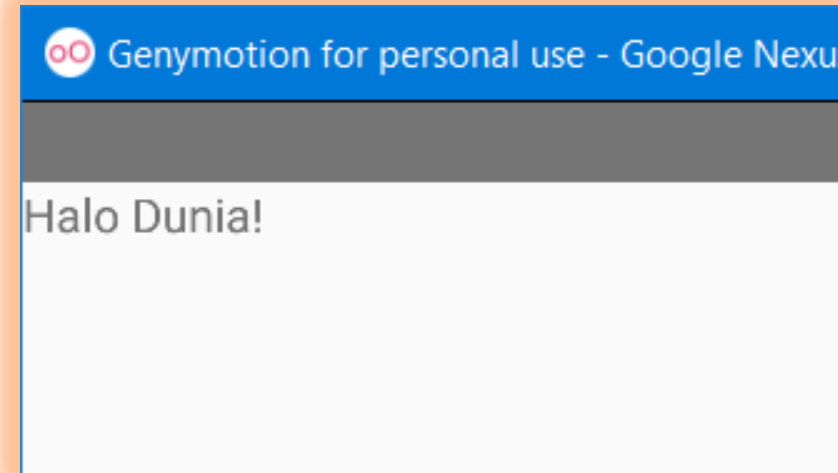


ScrollView

```
import React, { Component } from 'react';
import { Text, View, ScrollView }
from 'react-native';
```

```
var kalimat = 'Halo Dunia!';
class App extends Component {
  render() {
    return (
      <ScrollView>
        <View>
          <Text>
            { kalimat }
          </Text>
        </View>
      </ScrollView>
    );
  }
}
```

```
export default App;
```



Activity Indicator

```
import React, { Component } from 'react';
import { View, ActivityIndicator } from 'react-native';

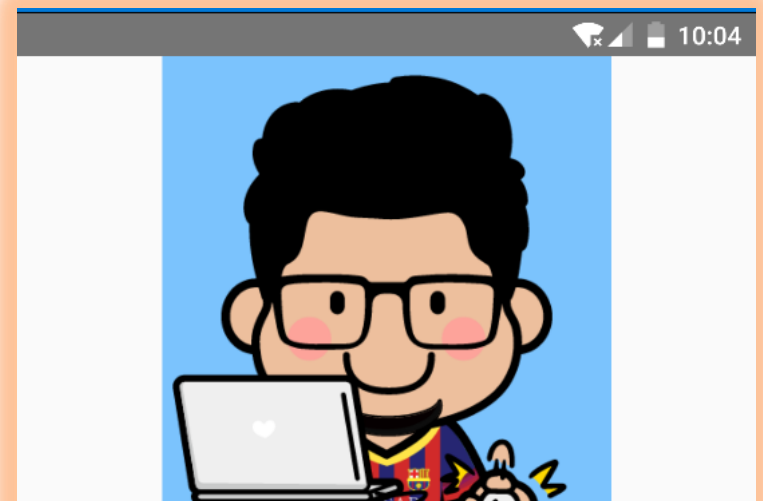
export default class App extends Component {
  render() {
    return (
      <View>
        <ActivityIndicator size="large" color="red" />
        <ActivityIndicator size="small" color="yellow" />
        <ActivityIndicator size="large" color="green" />
        <ActivityIndicator size="small" color="blue" />
      </View>
    );
  }
}
```



```
import React, {Component} from 'react';
import {View, Image} from 'react-native';

class App extends Component {
  render() {
    return (
      <View style={{flexDirection: 'row',
        justifyContent: 'center'}}>
        <Image
          style={{width: 250, height: 250}}
          source={require('./gbr/lin1.png')}
        />
      </View>
    );
  }
}

export default App;
```



```
import React, {Component} from 'react';
import {View, Image} from 'react-native';

class App extends Component {
  render() {
    return (
      <View style={{flexDirection: 'row',
        justifyContent: 'center'}}>
        <Image
          style={{width: 250, height: 250}}
          source={{uri: 'https://...barca.png'}}
        />
      </View>
    );
  }
}

export default App;
```

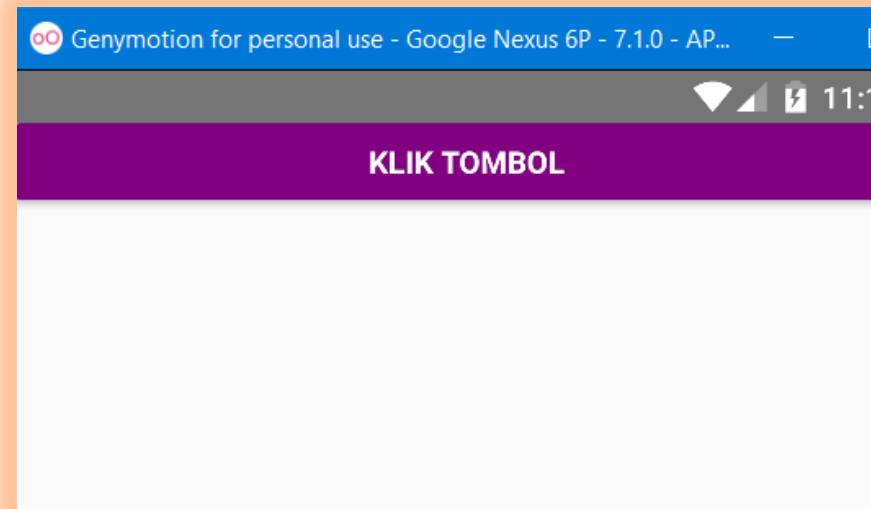


Button

```
import React, { Component } from 'react';  
import { Button } from 'react-native';
```

```
class App extends Component {  
  render() {  
    function klik(){}  
    return (  
      <Button  
        onPress={klik}  
        title="Klik Tombol"  
        color="purple"  
      />  
    );  
  }  
}
```

```
export default App;
```



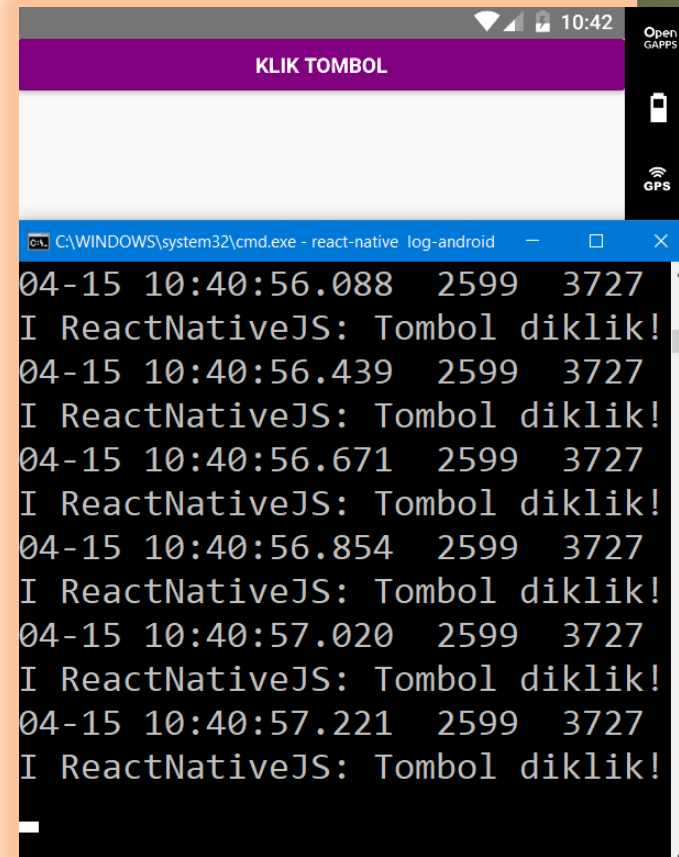
Button

#console.log

```
import React, { Component } from 'react';
import { Button } from 'react-native';
```

```
class App extends Component {
  render() {
    function klik(){
      console.log('Tombol diklik!')
    }
    return (
      <Button
        onPress={kl}ik}
        title="Klik Tombol"
        color="purple"
      />
    );
  }
}
```

```
export default App;
```

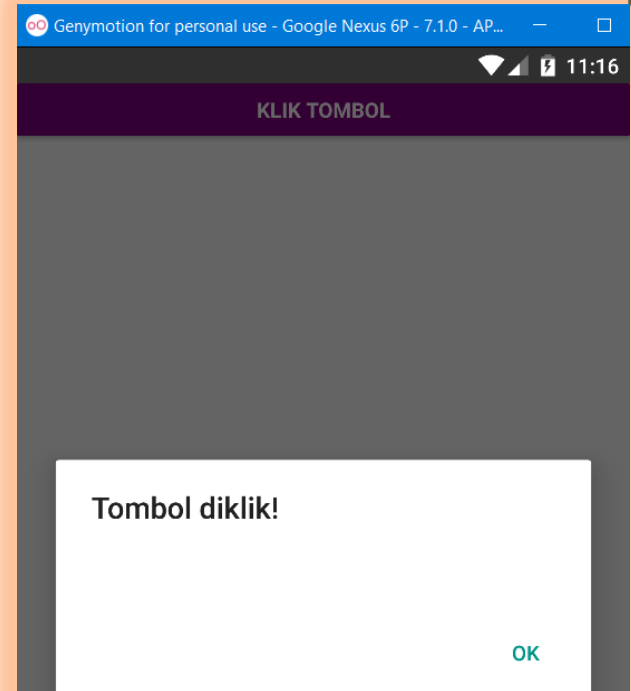


Button #Alert

```
import React, { Component } from 'react';
import { Button, Alert } from 'react-native';

class App extends Component {
  render() {
    function klik(){
      Alert.alert('Tombol diklik!');
    }
    return (
      <Button
        onPress={klik}
        title="Klik Tombol"
        color="purple"
      />
    );
  }
}

export default App;
```



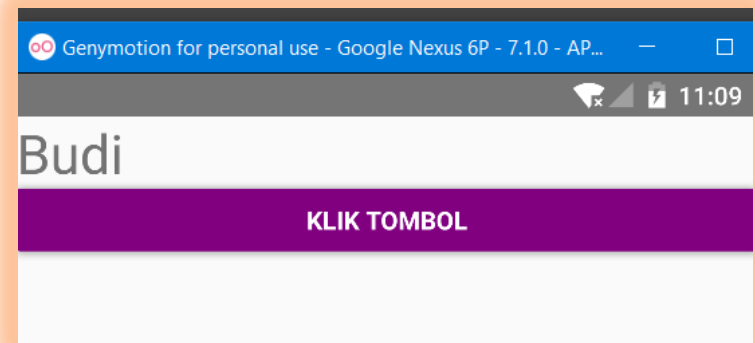
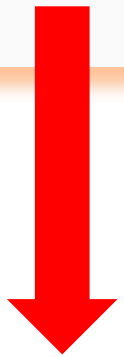
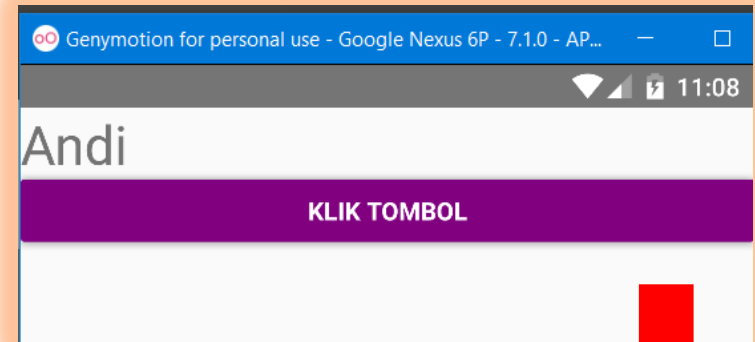
Button

#setState

```
import React, { Component } from 'react';
import { Button, Text, View } from 'react-native';
```

```
class App extends Component {
  constructor(){
    super();
    this.state={x: 'Andi'}
  }
  render() {
    return (
      <View>
        <Text style={{fontSize:30}}>{this.state.x}</Text>
        <Button onPress={()=>this.setState({x: 'Budi'})}
          title="Klik Tombol" color="purple" />
      </View>
    );
  }
}

export default App;
```

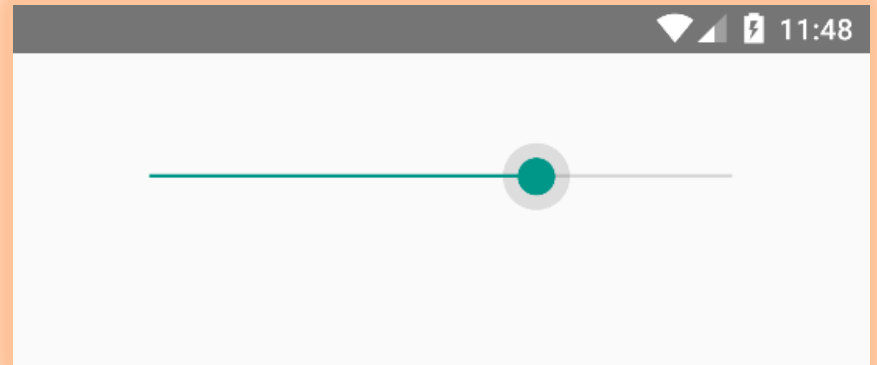


Slider

```
import React, { Component } from 'react';
import { View, Slider } from 'react-native';

class App extends Component {
  render() {
    return (
      <View style={{margin:50}}>
        <Slider/>
      </View>
    );
  }
}

export default App;
```



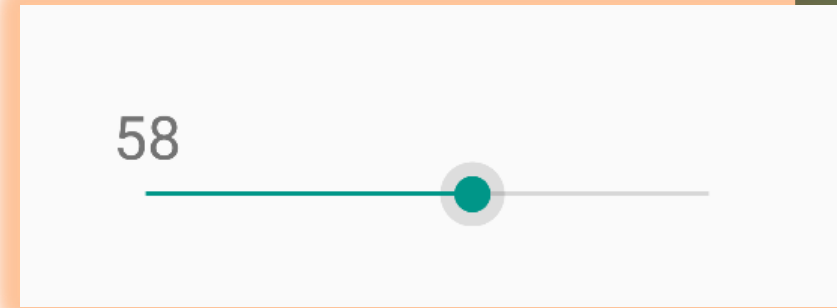
Slider

#setState

```
import React, { Component } from 'react';
import { View, Text, Slider } from 'react-native';

class App extends Component {
  constructor(){
    super();
    this.state={x:0}
  }
  render() {
    return (
      <View style={{margin:50}}>
        <Text style={{fontSize:30}}>{this.state.x}</Text>
        <Slider
          maximumValue={100} minimumValue={0} step={1}
          onValueChange={(val)=>{this.setState({x:val})}}
        />
      </View>
    );
  }
}

export default App;
```

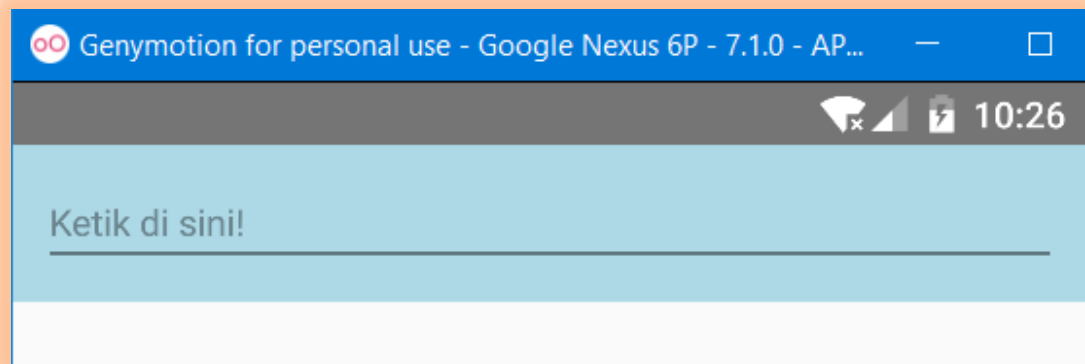


Text Input

```
import React, { Component } from 'react';
import { View, TextInput } from 'react-native';

class App extends Component {
  render() {
    return (
      <View style={{padding: 10,
        backgroundColor:'lightblue'}}>
        <TextInput style={{height: 40}}
          placeholder='Ketik di sini!'
        />
      </View>
    );
  }
}

export default App;
```

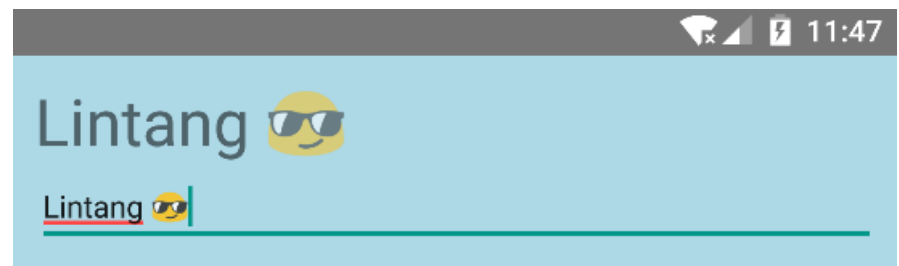


Text Input #onChange

```
import React, { Component } from 'react';
import { View, Text, TextInput } from 'react-native';

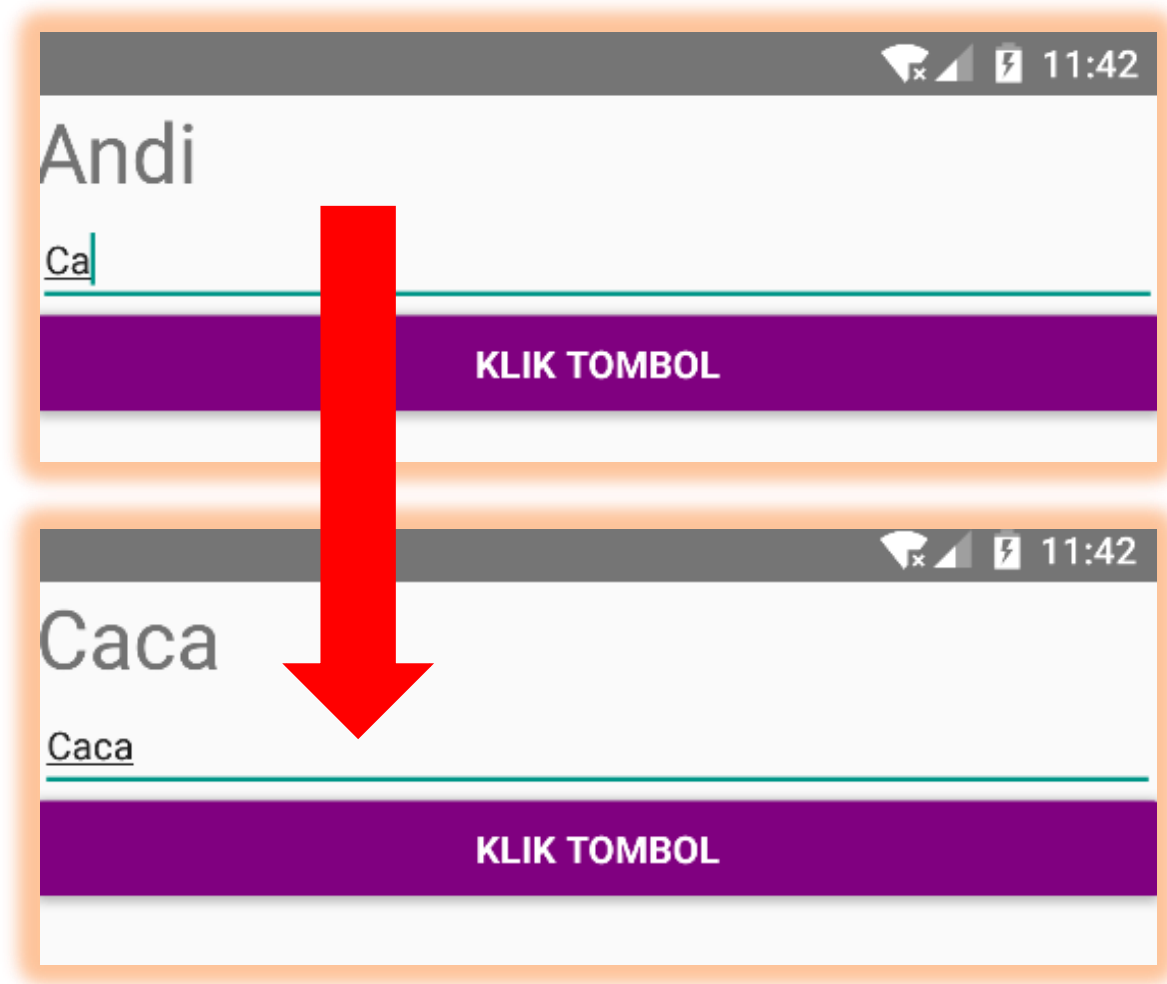
class App extends Component {
  constructor(){
    super();
    this.state={input: 'Teks'}
  }
  render() {
    return (
      <View style={{padding: 10, backgroundColor: 'lightblue'}}>
        <Text style={{fontSize: 30}}>{this.state.input}</Text>
        <TextInput style={{height: 40}} placeholder='Ketik di sini!'
          onChangeText={(input) => this.setState({input})}
        />
      </View>
    );
  }
}

export default App;
```



When user input something then click the button, the state's value will be updated as text input's value.

Text Input & Button #update State



Text Input & Button

#update State

```
import React, { Component } from 'react';
import {
  Button,
  Text,
  TextInput,
  View } from 'react-native';

class App extends Component {
  constructor(){
    super();
    this.state={x: 'Andi', y: ''}
  }
  render() {
    return (
```

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Text Input & Button

#update State

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```
<View>
  <Text style={{fontSize:30}}>{this.state.x}
</Text>

  <TextInput style={{height:40}}
placeholder='Ketik nama...'
onChangeText={ (input)=>this.setState({y:input}) }
/>

  <Button
onPress={()=>{this.setState({x:this.state.y})}}
title='Klik Tombol'
color='purple'
/>

</View>
);}}

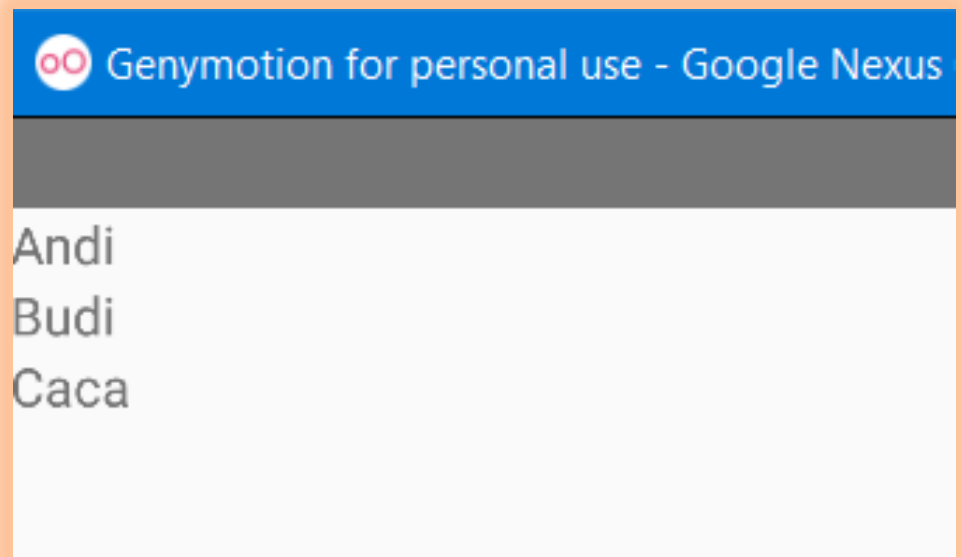
export default App;
```

Flat List

```
import React, { Component } from 'react';
import { FlatList, View, Text } from 'react-native';

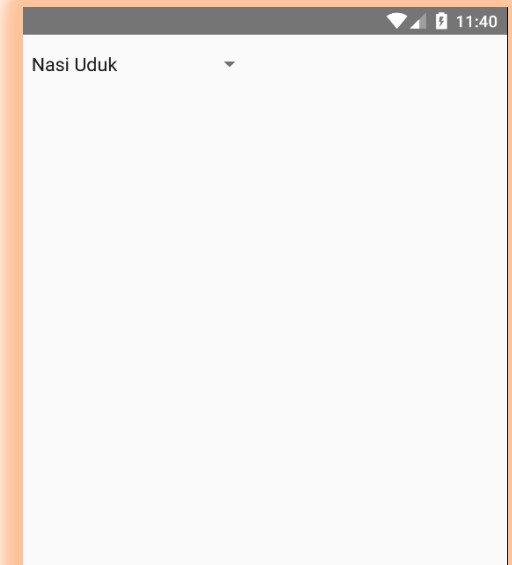
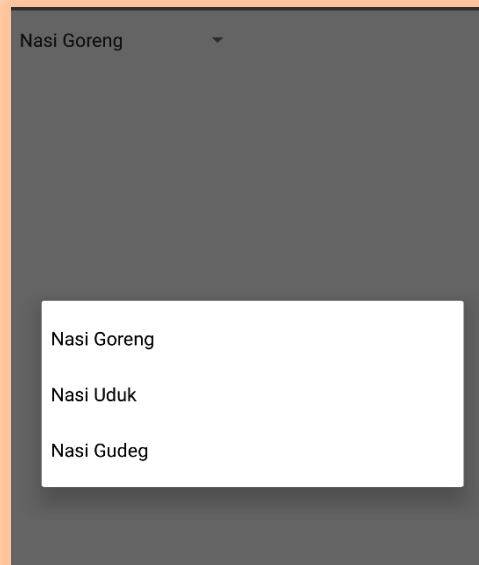
class App extends Component {
  render() {
    return (
      <View>
        <FlatList
          data={[{key: 'Andi'}, {key: 'Budi'}, {key: 'Caca'}]}
          renderItem={({item}) => <Text>{item.key}</Text>}
        />
      </View>
    );
  }
}

export default App;
```



```
import React, { Component } from 'react';
import { Picker } from 'react-native';
class App extends Component {
  state = {opsi:''}
  render() {
    return (
      <Picker
        selectedValue={this.state.opsi}
        style={{ height: 50, width: 200 }}
        onValueChange={(val, i) => this.setState({opsi: val})}>
        <Picker.Item label="Nasi Goreng" value="1" />
        <Picker.Item label="Nasi Uduk" value="2" />
        <Picker.Item label="Nasi Gudeg" value="3" />
      </Picker>
    );
  }
}

export default App;
```

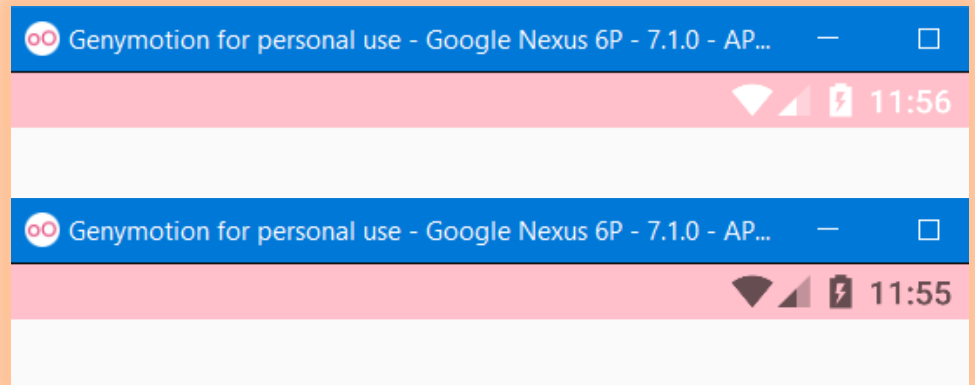


Status Bar

```
import React, { Component } from 'react';
import { View, StatusBar } from 'react-native';

class App extends Component {
  render() {
    return (
      <View>
        <StatusBar
          backgroundColor="pink"
          barStyle="light-content" // "dark-content"
        />
      </View>
    );
  }
}

export default App;
```



Touchable Highlight #1

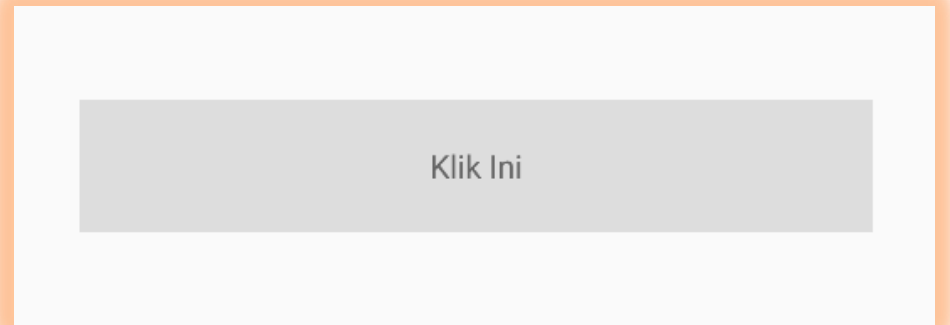
```
import React, { Component }
from 'react'

import {
  StyleSheet,
  TouchableHighlight,
  Text, View} from 'react-native'

class App extends Component {
  klik = () => {}
  render() {
    return (
      <View style={styles.container}>
        <TouchableHighlight
          style={styles.button}
          onPress={this.klik}>
          <Text> Klik Ini </Text>
        </TouchableHighlight>
      </View>
    )
  }
}
```

Touchable Highlight #2

```
const styles = StyleSheet.create({  
  container: {  
    flex: 1,  
    justifyContent: 'center',  
    paddingHorizontal: 30  
  },  
  button: {  
    alignItems: 'center',  
    backgroundColor: '#DDDDDD',  
    padding: 20  
  }  
})  
  
export default App;
```



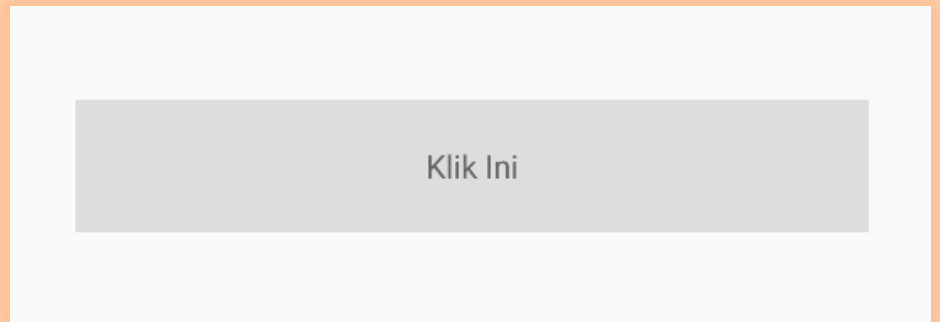
Touchable Opacity #1

```
import React, { Component }  
from 'react'  
  
import {  
  StyleSheet,  
  TouchableOpacity,  
  Text, View} from 'react-native'  
  
class App extends Component {  
  klik = () => {}  
  render() {  
    return (  
      <View style={styles.container}>  
        <TouchableOpacity  
          style={styles.button}  
          onPress={this.klik}>  
          <Text> Klik Ini </Text>  
        </TouchableOpacity>  
      </View>  
    )  
  }  
}
```

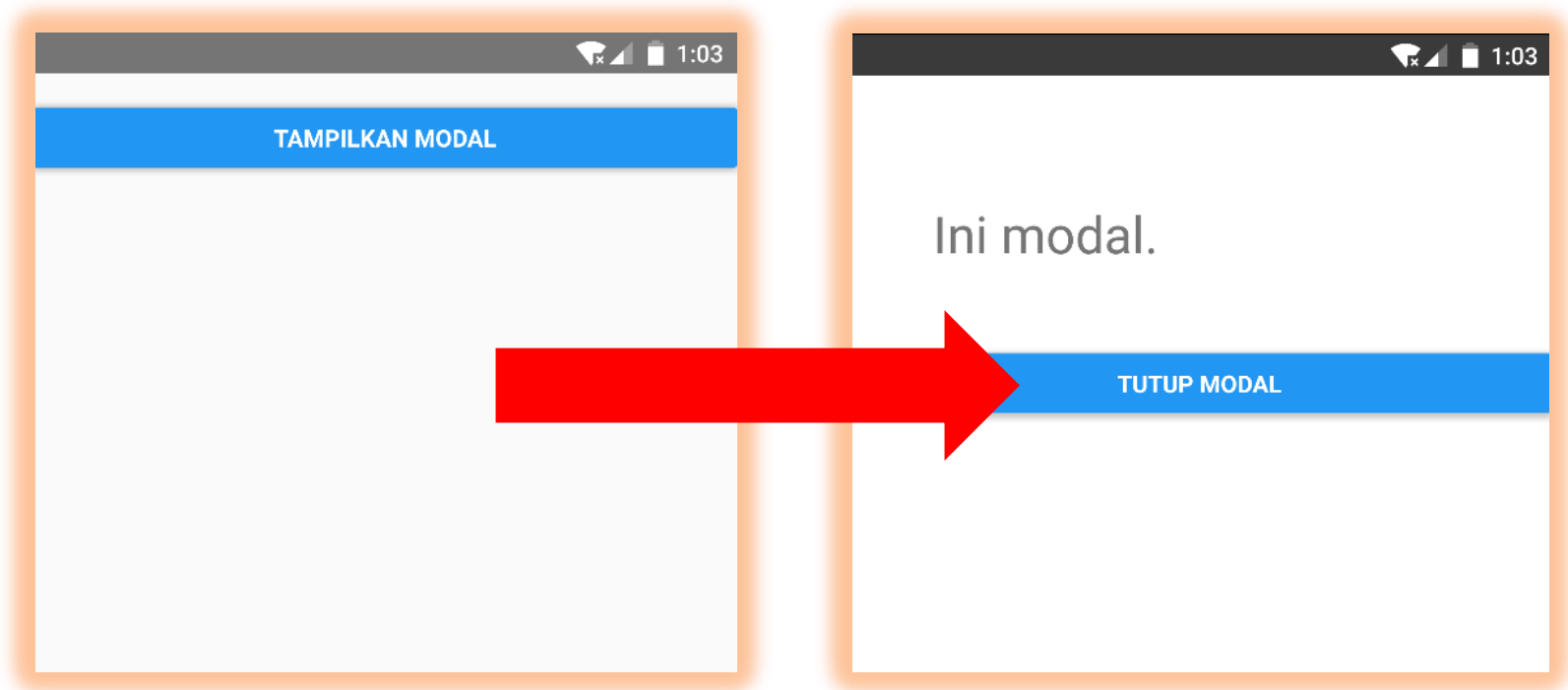
Touchable Opacity #2

```
const styles = StyleSheet.create({
  container: {
    flex: 1,
    justifyContent: 'center',
    paddingHorizontal: 30
  },
  button: {
    alignItems: 'center',
    backgroundColor: '#DDDDDD',
    padding: 20
  }
})

export default App;
```



Modal



Modal

#part 1

```
import React, { Component } from 'react';
import {
  Modal,
  Text,
  Button,
  View} from 'react-native';

class App extends Component {
  state = {
    modalVisible: false,
  };
  setModal(visible) {
    this.setState({modalVisible: visible});
  }
}
```

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Modal

#part 2

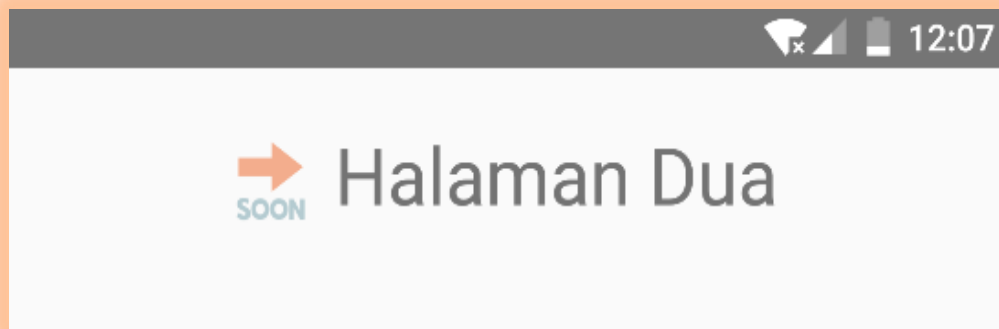
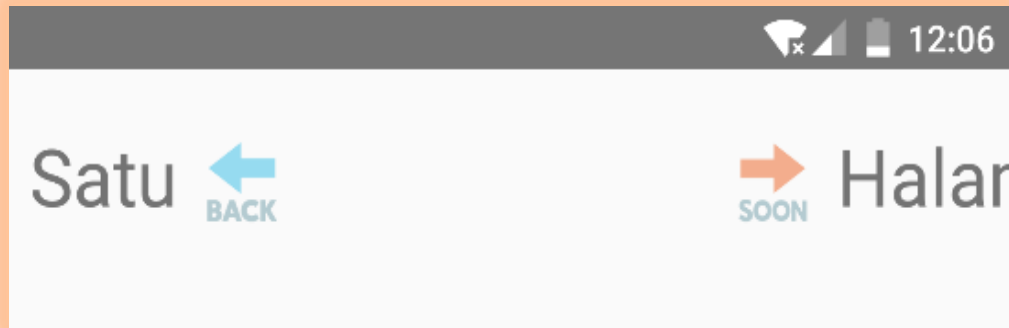
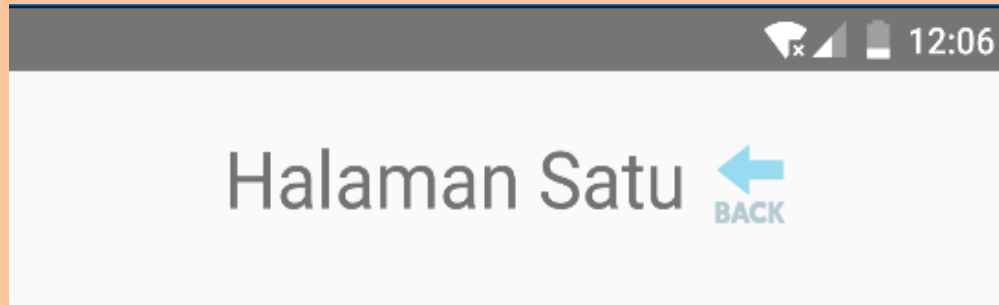
```
render() {  
  return (  
    <View style={{marginTop: 20}}>  
  
      <Modal  
        animationType="slide" transparent={false}  
        visible={this.state.modalVisible}  
        onRequestClose={() => {}}>  
        <View style={{marginTop: 22}}>  
          <Text style={{fontSize:30,margin:50}}>  
            Ini modal.</Text>  
          <Button  
            title='Tutup Modal' onPress={() => {  
              this.setModal(!this.state.modalVisible);  
            }}/>  
        </View>  
      </Modal>  
    )  
  )  
}
```

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```
<Button
  title='Tampilkan Modal'
  onPress={() => {
    this.setModal(true);
  }}/>
</View>
);}}
```

```
export default App;
```

View Pager *Android*



View Pager Android #part 1

```
import React, { Component } from 'react'
import { ViewPagerAndroid, Text, View,
StyleSheet } from 'react-native'

class App extends Component {
  render() {
    return (
      <ViewPagerAndroid style={styles.viewPager}
        initialPage={0}>

        <View style={styles.pageStyle} key="1">
          <Text style={{fontSize:30}}>Halaman Satu ← BACK</Text>
        </View>

        <View style={styles.pageStyle} key="2">
          <Text style={{fontSize:30}}>→ SOON Halaman Dua</Text>
        </View>
      </ViewPagerAndroid>
    )
  }
}
```

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View Pager Android *#part 2*

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```
const styles = StyleSheet.create({  
  viewPager: {  
    flex: 1  
  },  
  pageStyle: {  
    alignItems: 'center',  
    padding: 20,  
  }  
})
```

```
export default App;
```

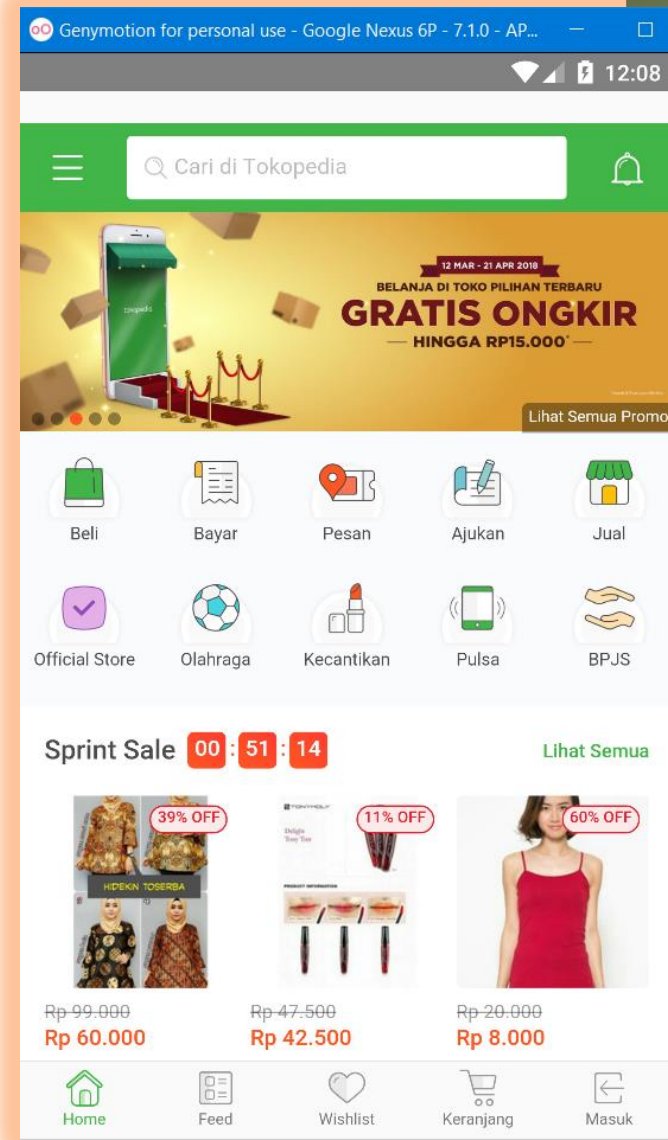
Web View

```
import React, { Component }
from 'react'

import {WebView}
from 'react-native'

class App extends Component {
  render() {
    return (
      <WebView
        source={{
          uri: 'https://www.tokopedia.com/'
        }}
      />
    )
  }
}

export default App;
```



Mobile Development



React Native

#3 Basic Components