

Pemograman Perangkat Bergerak Review

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Component



Component

React Class Component

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

export class Hello extends Component {
  render() {
    return (
      <View>
        <Text>Hello</Text>
      </View>
    )
  }
}

export default Hello
```

React Function Component

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

const Hello = () => {
  return (
    <View>
      <Text>ExpClass</Text>
    </View>
  )
}

export default Hello
```





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Component

Tentukan mana **RCC**
dan mana **RFC**
Berdasarkan MOCK UP
disamping?


10:19

 **IBI Kesatuan**
Bogor Indonesia



Email

Password



Sign In

FRONTEND

Container

View

```
import { View } from  
"react-native";  
<view> ... </view>
```

ScrollView

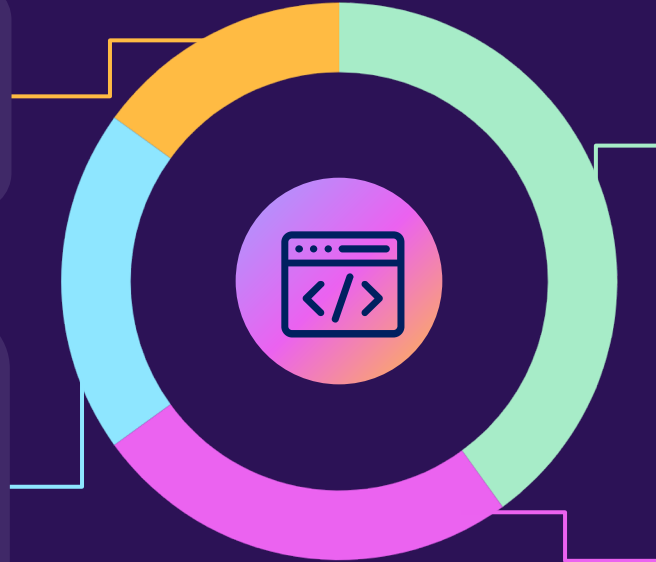
```
import {ScrollView}  
from "react-native";  
<ScrollView>  
...  
</ScrollView>
```

SafeAreaView

```
import {SafeAreaView}  
from "react-native";  
<SafeAreaView>  
...  
</SafeAreaView>
```

ImageBackground

```
import  
{ImageBackground}  
from "react-native";  
<ImageBackground>  
...  
</ImageBackground>
```

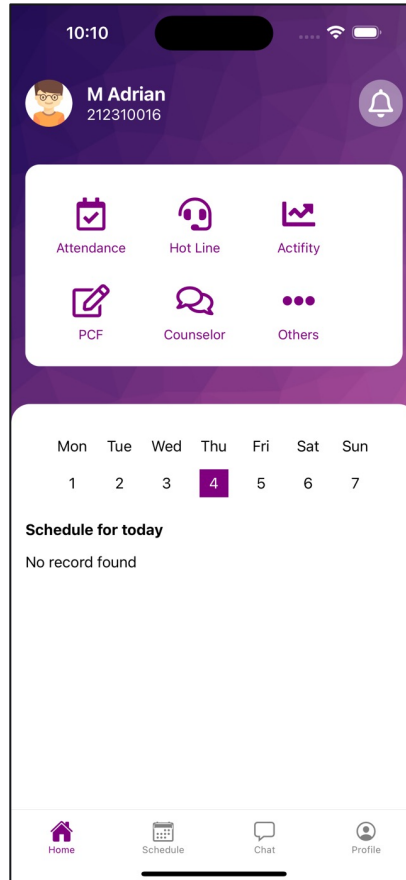




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Container

Tentukan container apa saja
yang ada di dalam MOCK UP
disamping?

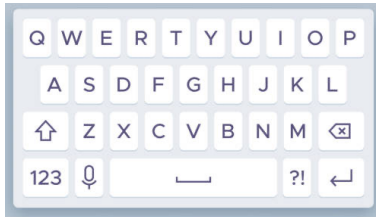




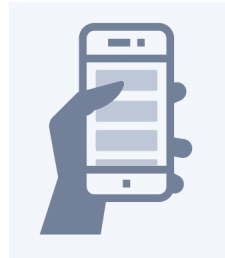
Container

KeyboardAvoidView

```
import { KeyboardAvoidingView } from "react-native";
```



Berpasangan dengan



ScrollView

```
import { ScrollView } from "react-native";
```



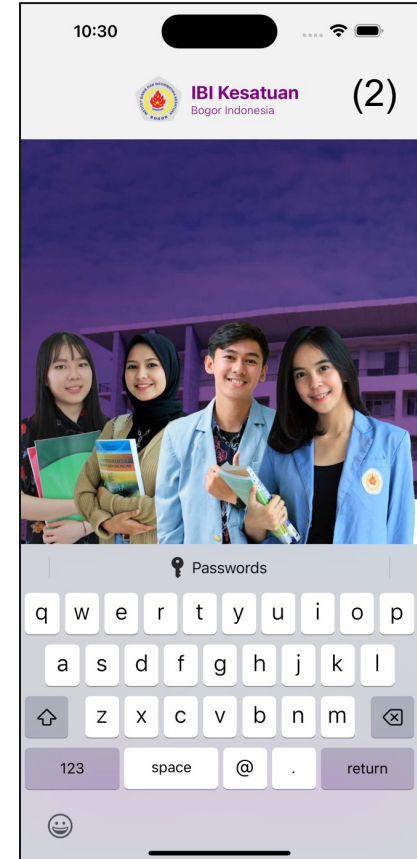
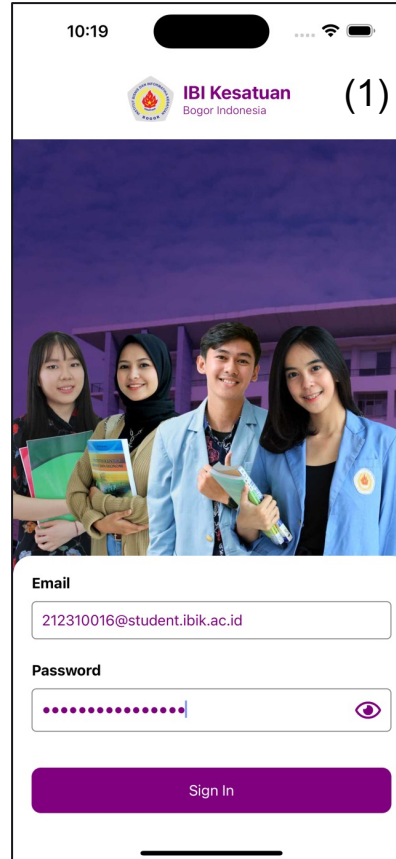

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Container

Contoh tanpa menggunakan container
KeyboardAvoidView:

Pada gambar 1 memiliki sebuah form input yg terletak di posisi paling bawah layar. Dimana form tersebut memerlukan inputan data dengan keyboard ponsel.

Pada gambar 2, Ketika memfokuskan pada salah satu form input, maka akan menampilkan keyboard ponsel. Namun form isian tersebut menjadi tidak terlihat, tertutup oleh layer keyboard.





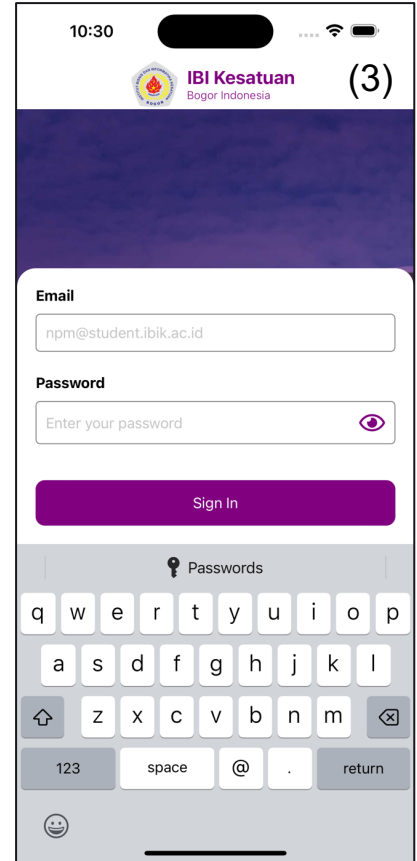
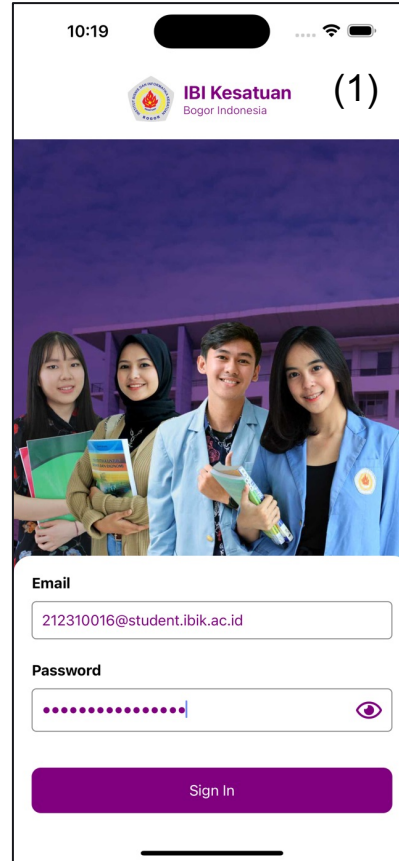
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Container

Contoh menggunakan container
KeyboardAvoidView:

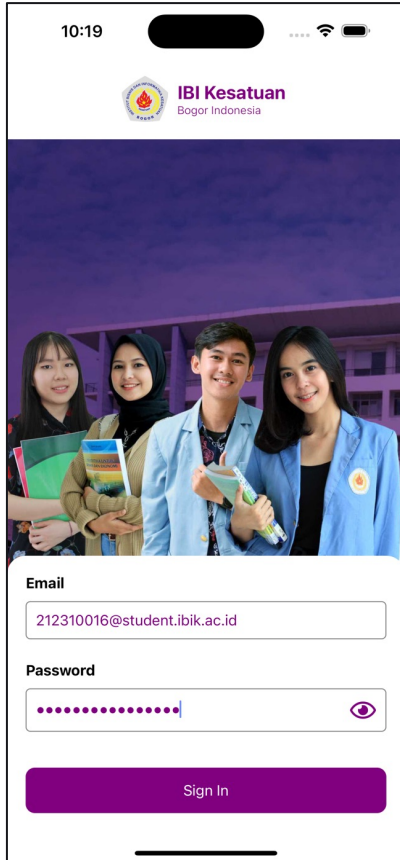
Pada gambar 1 memiliki sebuah form input yg terletak di posisi paling bawah layar. Dimana form tersebut memerlukan inputan data dengan keyboard ponsel.

Pada gambar 3, Ketika memfokuskan pada salah satu form input, maka akan menampilkan layer keyboard ponsel, namun posisi form isian akan avoid keatas.





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Container

Implementasi KeyboardAvoidView

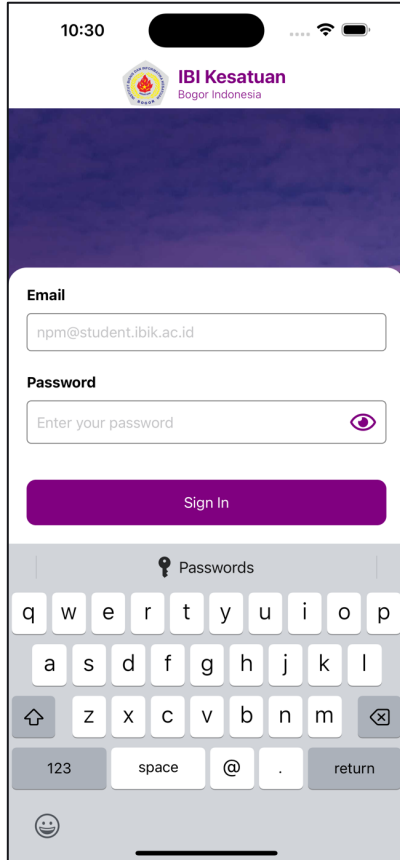
Pada code sebelumnya container awal menggunakan SafeAreaView.

```
export class Auth extends Component {  
  render() {  
    return (  
      <SafeAreaView>  
        .....  
      </SafeAreaView>  
    );  
  }  
}
```

Memasang KeyboardAvoidView didalam component dengan menambahkan code sebagai berikut:



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Container

Implementasi KeyboardAvoidView

```
export class Auth extends Component {  
  render() {  
    return (  
      <KeyboardAvoidingView  
        style={{ flex: 1 }}  
        behavior={Platform.OS === "ios" ? "padding" : "height"}  
      >  
        <ScrollView contentContainerStyle={{ flex: 1 }}  
          bounces={false} >  
          <SafeAreaView>  
            .....  
          </SafeAreaView>  
        </ScrollView>  
      </KeyboardAvoidingView>  
    );  
  }  
}
```

Routing

Navigator

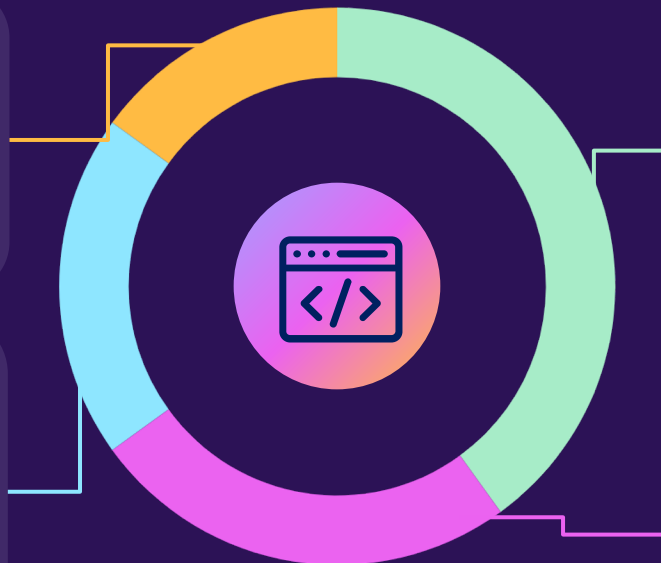
Routing

Stack

```
import {  
  createStackNavigator  
} from '@react-  
navigation/stack';
```

Drawer

```
import {  
  createDrawerNavigator  
} from '@react-  
navigation/drawer';
```



Bottom Tab

```
import {  
  createBottomTabNavigator  
} from '@react-  
navigation/bottom-tabs';
```

Tab

```
import {  
  createBottomTabNavigator  
} from '@react-  
navigation/bottom-tabs';
```



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Navigator

STACK

```
import { createStackNavigator } from '@react-navigation/stack';

const Stack = createStackNavigator();

function MyStack() {
  return (
    <Stack.Navigator>
      <Stack.Screen name="Home" component={Home} />
      <Stack.Screen name="Profile" component={Profile} />
      <Stack.Screen name="Settings" component={Settings} />
    </Stack.Navigator>
  );
}
```

<https://reactnavigation.org/docs/stack-navigator>





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Navigator

Drawer

```
import { createDrawerNavigator } from '@react-navigation/drawer';

const Drawer = createDrawerNavigator();

function MyDrawer() {
  return (
    <Drawer.Navigator>
      <Drawer.Screen name="Feed" component={Feed} />
      <Drawer.Screen name="Article" component={Article} />
    </Drawer.Navigator>
  );
}
```

Home screen!



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Navigator

Bottom Tabs

```
import { createBottomTabNavigator }  
from '@react-navigation/bottom-tabs';  
  
const Tab = createBottomTabNavigator();  
  
function MyTabs() {  
  return (  
    <Tab.Navigator>  
      <Tab.Screen name="Home" component={HomeScreen} />  
      <Tab.Screen name="Settings" component={SettingsScreen} />  
    </Tab.Navigator>  
  );  
}
```

<https://reactnavigation.org/docs/bottom-tab-navigator>

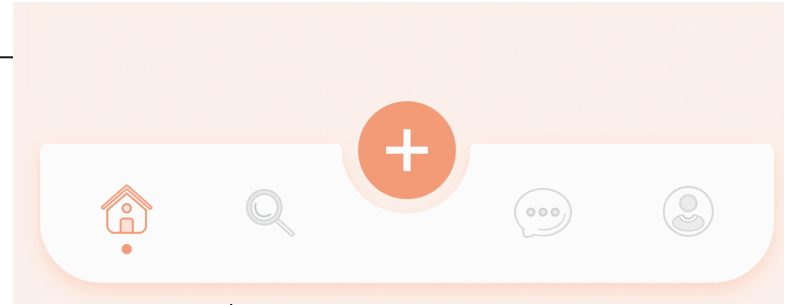




Navigator

Tabs

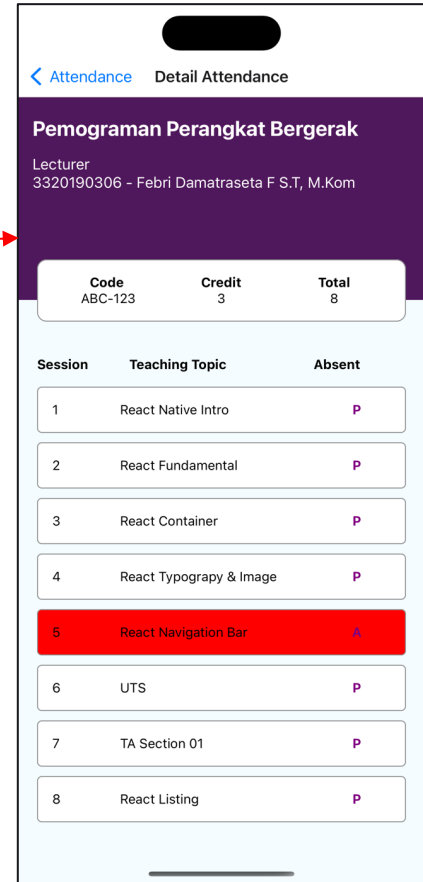
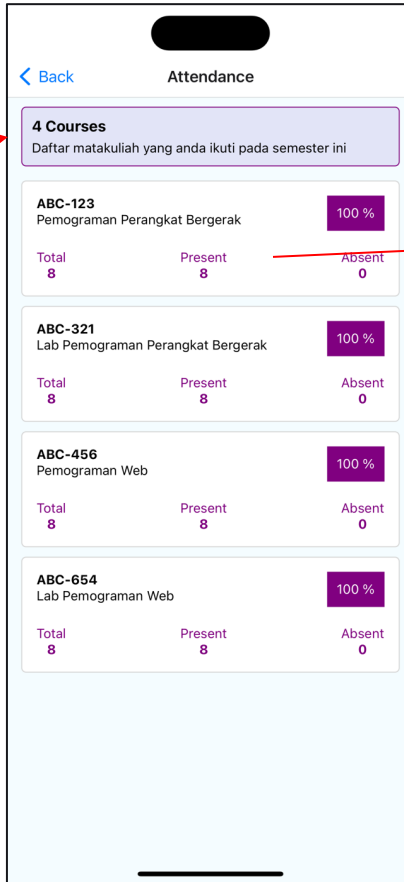
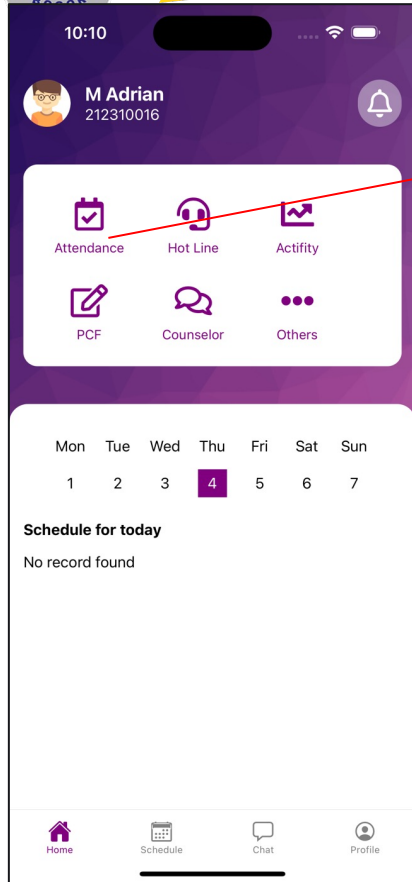
```
import { createBottomTabNavigator }  
from '@react-navigation/bottom-tabs';  
  
const Tab = createBottomTabNavigator();  
  
function MyTabs() {  
  return (  
    <NavigationContainer>  
      <Tab.Navigator>  
        <Tab.Screen name="Home" component={HomeScreen} />  
        <Tab.Screen name="Settings" component={SettingsScreen} />  
      </Tab.Navigator>  
    </NavigationContainer>  
  );  
}
```





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Navigator



Life Cycle



Life Cycle

React Class Component

```
import { Dimensions, Image, SafeAreaView, StyleSheet, Text, TextInput, View, } from "react-native";  
import React, { Component } from "react";
```

```
export class FormRCC extends Component {
```

```
  constructor(props){  
    super(props);  
    this.state={  
      title:"IBI Kesatuan",  
      subTitle:"Bogor Indonesia"  
    }  
  }
```

Inisialisasi key
bernama ti

```
  render() {  
    return (  
      <SafeAreaView>  
        <View>  
          <Image source={require("../assets/icons/")} />  
          <View>  
            <Text>{this.state.title} </Text>  
            <Text>{this.state.subTitle} </Text>  
          </View>  
        </View>  
      )  
    );  
  }
```

Cara menampilkan state
lifecycle pada JSX

```
    <View>  
      <View>  
        <Text>Change Logo</Text>  
      </View>  
      <View>  
        <Text>Title</Text>  
        <TextInput placeholder="Enter title here"  
          defaultValue={this.state.title}  
          onChangeText={(text)=>this.setState({title:text})} />  
      </View>  
      <View>  
        <Text>Sub Title</Text>  
        <TextInput placeholder="Enter sub title here"  
          defaultValue={this.state.subTitle}  
          onChangeText={(text)=>this.setState({subTitle:text})} />  
      </View>  
    </View>  
  </SafeAreaView>  
);  
}
```

Mengambil nilai value pada TextInput dengan menggunakan properties *onChangeText*, dan untuk mengupdate value pada state gunakan *this.setState({namakey:value})*

```
export default FormRCC;
```



Life Cycle

React Class Component

```
<View>
  <View>
    <Text>Change Logo</Text>
  </View>
  <View>
    <Text>Title</Text>
    <TextInput placeholder="Enter title here"
      defaultValue={this.state.title}
      onChangeText={({text})=>this.setState({title:text})} />
  </View>
  <View>
    <Text>Sub Title</Text>
    <TextInput placeholder="Enter sub title here"
      defaultValue={this.state.subTitle}
      onChangeText={({text})=>this.setState({subTitle:text})} />
  </View>
</View>
</SafeAreaView>
);
}
}

export default FormRCC;
```

Mengambil nilai value pada TextInput dengan menggunakan properties *onChangeText*, dan untuk mengupdate value pada state gunakan *this.setState({namakey:value})*



Life Cycle

React Function Component

```
import { View, Text, StyleSheet, SafeAreaView, Image, TextInput } from "react-native";
import React, { useState } from "react";
```

Format penulisan `useState()`:
[getter, setter] = useState(value)

```
const FormRFC = () => {
```

```
  const [title, setTitle] = useState("IBI Kesatuan");
```

```
  const [subTitle, setSubTitle] = useState("Bogor Indonesia");
```

```
  return (
```

```
    <SafeAreaView>
```

```
      <View>
```

```
        <Image source={require("../assets/icons/icon-ibik.png")} />
```

```
        <View>
```

```
          <Text>{title}</Text>
```

```
          <Text>{subTitle}</Text>
```

```
        </View>
```

```
      </View>
```

```
      <View>
```

```
        <View>
```

```
          <Text>Change Logo</Text>
```

```
        </View>
```

```
    )
```

Inisialisasi title dan subtitle dengan menggunakan HOOK `useState`

Menampilkan nilai getter dari `useState`

```
<View>
  <Text>Title</Text>
  <TextInput
    placeholder="Enter title here"
    defaultValue={title}
    onChangeText={(text) => setTitle(text)}
  />
</View>
```

Mengisi nilai baru pada setter title atau subtitle dengan properties `onChangeText(...)`

```
<View>
  <Text>Sub Title</Text>
  <TextInput
    placeholder="Enter sub title here"
    defaultValue={subTitle}
    onChangeText={(text) => setSubTitle(text)}
  />
</View>
</View>
</SafeAreaView>
);
};
```

```
export default FormRFC;
```

Thanks!

Does anyone have any questions?

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