

Michael Fernandez, 212310060

TI-21-PA

1. Tulis Syntax untuk membuat project react native

```
C:\Windows\System32\cmd.e  X  +  v

Microsoft Windows [Version 10.0.22621.1555]
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C:\Project React>expo init TesProject|

C:\Project React>cd TesProject|
```

2. Tuliskan syntax untuk menjalankan program react native

```
done in 436.233.
PS C:\Project React\Praktikum-5> yarn start|
```

3. Buat 1 buah file rcc yang menampilkan output “Sedang melaksanakan Quis”

```
JS App.js > App > render
21 import React, { Component } from 'react';
22 import { Text, View, SafeAreaView } from 'react-native-web';
23
24 class App extends Component {
25   render() {
26     return (
27       <SafeAreaView>
28         <view>
29           <Text>
30             Sedang melaksanakan Quis
31           </Text>
32         </view>
33       </SafeAreaView>
34     );
35   }
36 }
37
38 export default App;
```

```
localhost:19006
Sedang melaksanakan Quis
```

4. Buat form yang mampu mengubah output pada nomor 3 menjadi sesuai dengan yang diinputkan

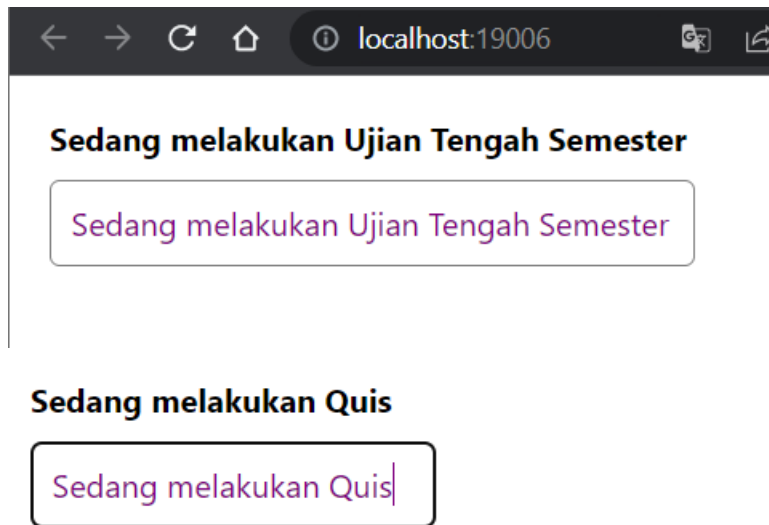
Contoh “sedang melaksanakan Ujian Tengah semester”

Teks ujian Tengah Semester Dynamic sesuai apa yang di inputkan di form

- Code:

```
components > JS Dynamic.js > ...
1  import { View, Text, TextInput, TouchableOpacity } from "react-native-web";
2  import { useState } from "react";
3  import React from 'react';
4  import { StyleSheet } from "react-native";
5
6  const Dynamic = () => {
7    const [email, setMail] = useState("Sedang melakukan Ujian Tengah Semester");
8
9    return (
10     <View style={styles.container}>
11       <View style={styles.frm_row}>
12         <Text style={styles.text_label}>{email} </Text>
13         <TextInput
14           autoComplete={false}
15           autoCapitalize="none"
16           style={styles.text_input}
17           defaultValue={email}
18           onChangeText={(text) => setMail(text)}
19         />
20       </View>
21     </View>
22   );
23 };
24 export default Dynamic;
25 const styles = StyleSheet.create({
26   container: {
27     padding: 20, backgroundColor: "white"
28   },
29   frm_row: { marginBottom: 15 },
30   text_label: {
31     fontWeight: "bold",
32     marginBottom: 10,
33     fontSize: 16,
34   },
35   text_input: {
36     borderWidth: 1,
37     borderColor: "grey",
38
39     borderRadius: 5,
40     padding: 10,
41     fontSize: 16,
42     color: "purple",
43   }
44 });
```

- Output:



5. Buat script masing-masing satu tentang scroll view, flatlist dan section list

```
8 import { StyleSheet, Text, View, TouchableOpacity } from "react-native";
9 import MyFriends from "../components/Friends/MyFriends";
10 import React from "react";
11
12 const App = () => {
13   return (
14     <View>
15       <MyFriends/>
16     </View>
17   );
18 }
19
20 export default App;
```

components > const-data > JS Dummy.js > ...

```
1  const Users = [
2    { id: 1, name: "Zaki", fullname: "Zaki Aljabbar", gender: "M" },
3    { id: 2, name: "Adrian", fullname: "Adrian Adhari", gender: "M"},
4    { id: 3, name: "Hana", fullname: "Hana Yulia Rahmah", gender: "F"},
5    { id: 4, name: "Lukman", fullname: "Lukman Nurhakim", gender: "M"},
6    { id: 5, name: "Cindy", fullname: "Cindy Kevina", gender: "F" },
7    { id: 6, name: "Katarina", fullname: "katarina Andrea", gender: "F" },
8    { id: 7, name: "Kepin", fullname: "Subhan Rizki", gender: "M" },
9    { id: 8, name: "Ray", fullname: "Raynaldi ", gender: "M" },
10   { id: 9, name: "Mike", fullname: "Michael Fernandez", gender: "M" },
11   { id: 10, name: "Fauzan", fullname: "Fauzan Rindu", gender: "M" },
12 ];
13
14 export {Users}
```

- FlatList
 - Code:

```

components > Friends > widgets > JS ExpFlatList.js > [🔗] default
 1  import React from "react";
 2  import { FlatList } from "react-native";
 3  import { Users } from "../const-data/Dummy";
 4  import UserItems from "../UserItems";
 5
 6  const ExpFlatList = () => {
 7    return (
 8      <FlatList
 9        data={Users}
10        renderItem={({ item }) => <UserItems item={item} />
11      />
12    );
13  };
14
15  export default ExpFlatList;

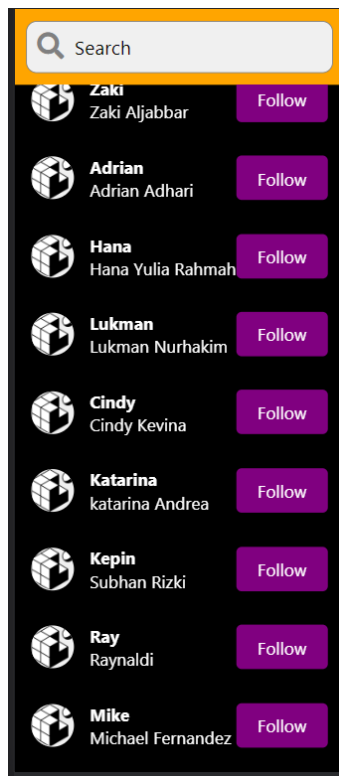
```

```

5 App.js M JS MyFriends.js U X JS ExpFlatList.js U JS Dummy.js U JS Page1.js U
components > Friends > JS MyFriends.js > 🐞 MyFriends > 📦 render
 1  import React, { Component } from "react";
 2  import { View, StatusBar, SafeAreaView, StyleSheet } from "react-native";
 3  import ExpScrollView from "../widgets/ExpScrollView";
 4  import SearchBar from "../widgets/SearchBar";
 5  import { Users } from "../const-data/Dummy";
 6  import ExpSectionList from "../widgets/ExpSectionList";
 7  import ExpFlatList from "../widgets/ExpFlatList";
 8
 9  class MyFriends extends Component {
10    render() {
11      return (
12        <SafeAreaView style={styles.container}>
13          <StatusBar hidden={false} style="light" />
14          <View style={styles.header}>
15            <SearchBar />
16          </View>
17          <View style={styles.body}>
18            <ExpFlatList />
19
20            { /* <ExpScrollView Users={Users} /> */ }
21
22            { /* <ExpSectionList /> */ }
23          </View>
24        </SafeAreaView>
25      );
26    }
27  }
28
29  export default MyFriends;

```

- Output:



- SectionList

- Code:

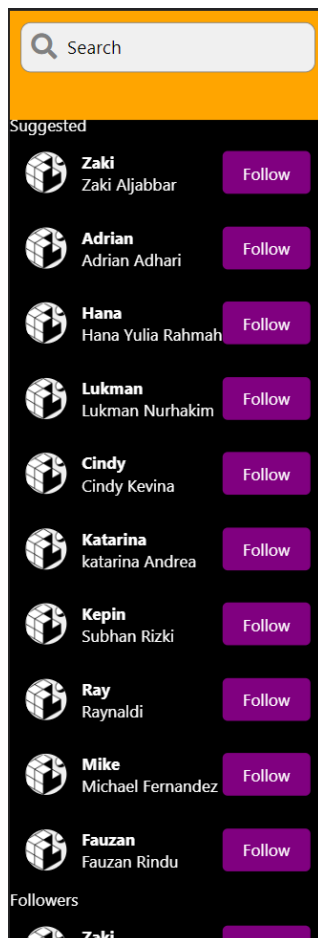
```
components > Friends > widgets > JS ExpSectionList.js > ...
1  import React from "react";
2  import { SectionList, Text } from "react-native";
3  import { Users } from "../../const-data/Dummy";
4  import UserItems from "../UserItems";
5
6  const ExpSectionList = () => {
7    const data = [
8      { title: "Suggested", data: Users },
9      { title: "Followers", data: Users },
10   ];
11   return (
12     <SectionList
13       sections={data}
14       renderItem={({ item }) => <UserItems item={item} />}
15       renderSectionHeader={({ section: { title } }) => (
16         <Text style={{ color: "white", fontSize: 16 }}>{title}</Text>
17       )}
18     />
19   );
20 };
21
22 export default ExpSectionList;
```

```

components > Friends > JS MyFriends.js > MyFriends > render
1  import React, { Component } from "react";
2  import { View, StatusBar, SafeAreaView, StyleSheet } from "react-native";
3  import ExpScrollView from "../widgets/ExpScrollView";
4  import SearchBar from "../widgets/SearchBar";
5  import { Users } from "../const-data/Dummy";
6  import ExpSectionList from "../widgets/ExpSectionList";
7  import ExpFlatList from "../widgets/ExpFlatList";
8
9  class MyFriends extends Component {
10   render() {
11     return (
12       <SafeAreaView style={styles.container}>
13         <StatusBar hidden={false} style="light" />
14         <View style={styles.header}>
15           <SearchBar />
16         </View>
17         <View style={styles.body}>
18           { /* <ExpFlatList/> */ }
19
20           { /* <ExpScrollView Users={Users} /> */ }
21
22           <ExpSectionList />
23         </View>
24       </SafeAreaView>
25     );
26   }
27 }
28
29 export default MyFriends;

```

- Output:



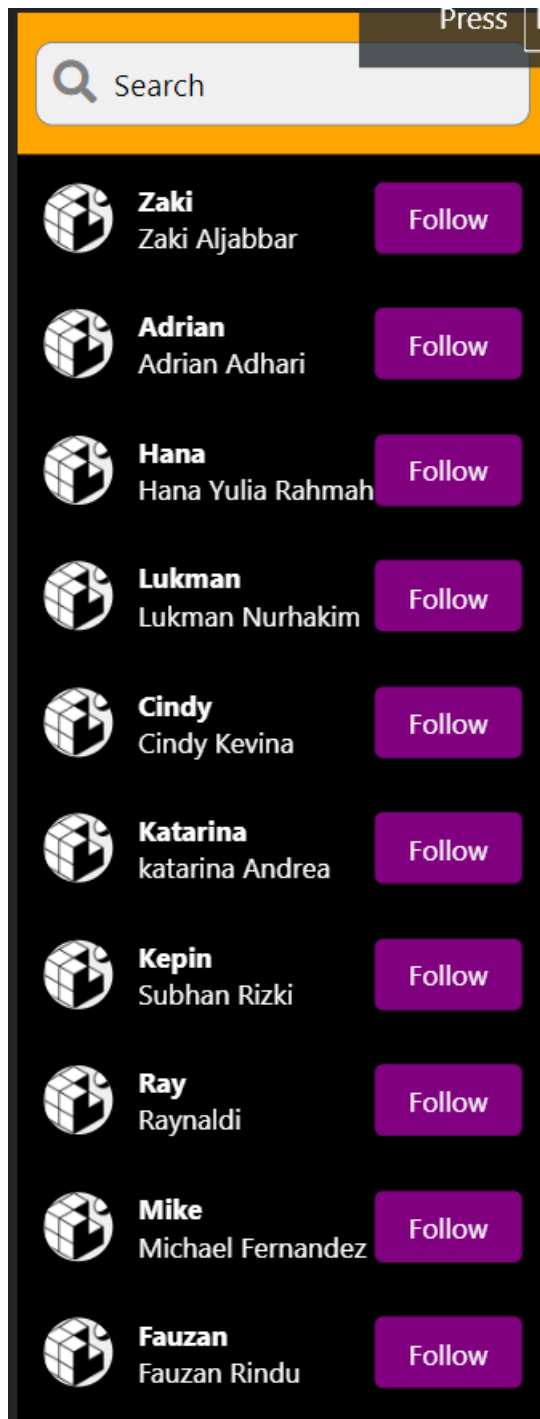
- ScrollView

- Code:

```
components > Friends > widgets > JS ExpScrollView.js > [🔗] default
1 import { ScrollView } from "react-native";
2 import React from "react";
3 // import { Users } from "../const-data/User";
4 import UserItems from "../UserItems";
5
6 const ExpScrollView = ({ Users }) => {
7   return (
8     <ScrollView>
9       {Users.map((v, index) => (
10         <UserItems item={v} key={index} />
11       ))}
12     </ScrollView>
13   );
14 };
15
16 export default ExpScrollView;
```

```
components > Friends > JS MyFriends.js > [🔗] MyFriends > [🔗] render
1 import React, { Component } from "react";
2 import { View, StatusBar, SafeAreaView, StyleSheet } from "react-native";
3 import ExpScrollView from "../widgets/ExpScrollView";
4 import SearchBar from "../widgets/SearchBar";
5 import { Users } from "../const-data/Dummy";
6 import ExpSectionList from "../widgets/ExpSectionList";
7 import ExpFlatList from "../widgets/ExpFlatList";
8
9 class MyFriends extends Component {
10   render() {
11     return (
12       <SafeAreaView style={styles.container}>
13         <StatusBar hidden={false} style="light" />
14         <View style={styles.header}>
15           <SearchBar />
16         </View>
17         <View style={styles.body}>
18           /* <ExpFlatList /> */
19
20           <ExpScrollView Users={Users} />
21
22           /* <ExpSectionList /> */
23         </View>
24       </SafeAreaView>
25     );
26   }
27 }
28
29 export default MyFriends;
```

- Output:



6. Buat from login yang sudah ada validasinya dan jika klik akan pindah ke menu home

```
10 import LogIn from "../components/LogIn";
11 import React from 'react';
12 import { View } from 'react-native';
13 import { SafeAreaView } from "react-native-safe-area-context";
14
15 const App = () => {
16   return (
17     // <SafeAreaView>
18     <View>
19       <LogIn/>
20     </View>
21     // </SafeAreaView>
22   );
23 }
24
25 export default App;
```

```
components > JS LogIn.js > [x] LogIn > [x] handleSignIn
1 import { View, Text, TextInput, StyleSheet, TouchableOpacity, Pressable } from "react-native";
2 import React, { useState } from "react";
3 import FontAwesome5 from "react-native-vector-icons/FontAwesome5";
4
5 const LogIn = () => {
6   const [email, setEmail] = useState("");
7   const [password, setPassword] = useState("");
8   const [loggedIn, setLoggedIn] = useState(false);
9
10   const handleSignIn = () => {
11     if (email === "212310060@student.ibik.ac.id" && password === "tespas") {
12       setLoggedIn(true);
13     } else {
14       alert("Login failed. Please check your email and password.");
15     }
16   };
17
18   if (loggedIn) {
19     return (
20       <View>
21         <Text>Welcome to Home Page</Text>
22       </View>
23     );
24   }
25
26   return (
27     <View style={styles.container}>
28       <View style={styles.frm_row}>
29         <Text style={styles.text_label}>Email </Text>
30         <TextInput
31           placeholder="npm@student.ibik.ac.id"
32           keyboardType="email-address"
33           autoCorrect={false}
34           autoCapitalize="none"
35           style={styles.text_input}
36           defaultValue={email}
37           onChangeText={(text) => setEmail(text)}
38         />

```

```

39     </View>
40     <View style={styles.frm_row}>
41       <Text style={styles.text_label}>Password</Text>
42       <View
43         style={{
44           ...styles.text_input,
45           flexDirection: "row",
46           justifyContent: "space-between",
47         }}
48       >
49         <TextInput
50           secureTextEntry={true}
51           placeholder="Enter your password"
52           autoCorrect={false}
53           style={{ ...styles.text_input, borderWidth: 0, padding: 0, width: "90%" }}
54           defaultValue={password}
55           onChangeText={(text) => setPassword(text)}
56         />
57         <Pressable>
58           <FontAwesome5 name={"eye"} size={25} color="grey" />
59         </Pressable>
60       </View>
61     </View>
62     <TouchableOpacity style={styles.btn_signin} onPress={() => handleSignIn()}>
63       <Text style={styles.btn_signin_text}>LogIn</Text>
64     </TouchableOpacity>
65   </View>
66 );
67 };
68
69 export default LogIn;
70
71 const styles = StyleSheet.create({
72   container: {
73     padding: 20,
74     backgroundColor: "white",
75   },
76   frm_row: { marginBottom: 15 },
77   text_label: {
78     text_label: {
79       fontWeight: "bold",
80       marginBottom: 10,
81       fontSize: 16,
82     },
83     text_input: {
84       borderWidth: 1,
85       borderColor: "grey",
86       borderRadius: 5,
87       padding: 10,
88       fontSize: 16,
89       color: "grey",
90     },
91     btn_signin: {
92       backgroundColor: "blue",
93       paddingVertical: 15,
94       paddingHorizontal: 10,
95       borderRadius: 10,
96       marginTop: 15,
97     },
98     btn_signin_text: { color: "white", textAlign: "center", fontSize: 16 },
99   });

```



Email

212310060@student.ibik.ac.id

Password

.....



Login



Welcome to Home Page

7. Buat contoh navigasi masing-masing 1

```
components > JS Page1.js > [e] Page1
1  import React from 'react';
2  import { Text, View } from 'react-native';
3  import { TouchableOpacity } from 'react-native-gesture-handler';
4  import { DefaultNavigatorOptions } from '@react-navigation/native';
5
6  const Page1 = ({navigation}) => {
7    return (
8      <TouchableOpacity onPress={() => navigation.navigate('Page2', {name: 'Michael'})}>
9        <View style={{ backgroundColor:"purple", padding:10, borderRadius:10, margin:10}}>
10         <Text style={{color:"white", textAlign:"center"}}>click here to see me</Text>
11       </View>
12     </TouchableOpacity>
13   );
14 }
15
16 export default Page1;
17
```

```
components > JS Page2.js > ...
1  import React from 'react';
2  import { Text } from 'react-native';
3
4  const Page2 = ({navigation, route}) => {
5    return <Text>This is {route.params.name}'s profile</Text>
6  }
7
8  export default Page2;
9
```

- Stack Navigator:

```
JS App.js > App
1 import { StatusBar } from "expo-status-bar";
2 import { NavigationContainer } from "@react-navigation/native";
3 import { createNativeStackNavigator } from "@react-navigation/native-stack";
4 import Page1 from "../components/Page1";
5 import Page2 from "../components/Page2";
6 import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";
7 import MyFriends from "../components/Friends/MyFriends";
8
9 export default function App() {
10
11   const Stack = createNativeStackNavigator();
12
13   return (
14     <NavigationContainer>
15       <Stack.Navigator>
16         <Stack.Screen
17           name="page1"
18           component={Page1}
19           options={{title:"welcome"}}
20         />
21         <Stack.Screen name="Page2" component={Page2} />
22       </Stack.Navigator>
23     </NavigationContainer>
24   );
25 }
26
```

welcome

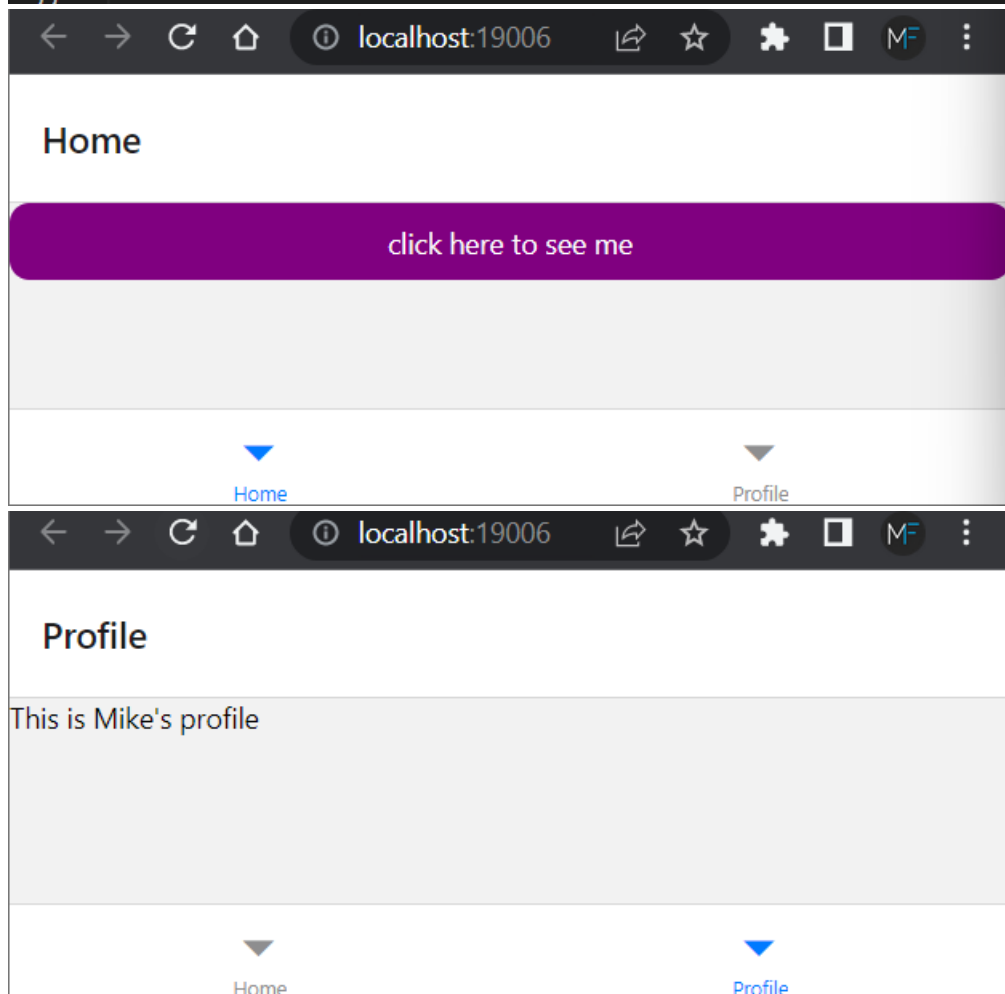
click here to see me

← Page2

This is Michael's profile

- Bottom tabs navigator:

```
JS App.js > ...
1 import { StatusBar } from "expo-status-bar";
2 import { NavigationContainer } from "@react-navigation/native";
3 import { createNativeStackNavigator } from "@react-navigation/native-stack";
4 import Page1 from "../components/Page1";
5 import Page2 from "../components/Page2";
6 import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";
7 import MyFriends from "../components/Friends/MyFriends";
8
9
10 export default function App() {
11   const Tab = createBottomTabNavigator ();
12   return (
13     <NavigationContainer>
14       <Tab.Navigator>
15         <Tab.Screen name="Home" component={Page1} />
16         <Tab.Screen name="Profile" component={Page2} />
17       </Tab.Navigator>
18     </NavigationContainer>
19   )
20 }
21
22
```



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TI-21-PA

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Microsoft Windows [Version 10.0.22621.1555]  
(c) Microsoft Corporation. All rights reserved.  
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2. Tuliskan syntax untuk menjalankan program react native

```
PS C:\Project React\praktikum-5> yarn start
```
3. Buat 1 buah file .jsx yang menampilkan output "Sedang melaksanakan Quis"

```
App.js > App > render  
21 import React, { Component } from 'react';  
22 import { Text, View, SafeAreaView } from 'react-native-web';  
23
```

8.