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TI-21-PA

1. Tulis Syntax untuk membuat project react native

```
C:\Windows\System32\cmd.e    ×    +    ∨

Microsoft Windows [Version 10.0.22621.1555]
(c) Microsoft Corporation. All rights reserved.

C:\Project React>expo init TesProject

C:\Project React>cd TesProject
```

2. Tuliskan syntax untuk menjalankan program react native

```
PS C:\Project React\Praktikum-5> yarn start
```

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

```javascript
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;
```

```
←  →  C  ⌂    ⓘ  localhost:19006

Sedang melaksanakan Quis
```

4. Buat from yang mampu mengubah output pada nomor 3 menjadi sesuai dengan yang diimputkan
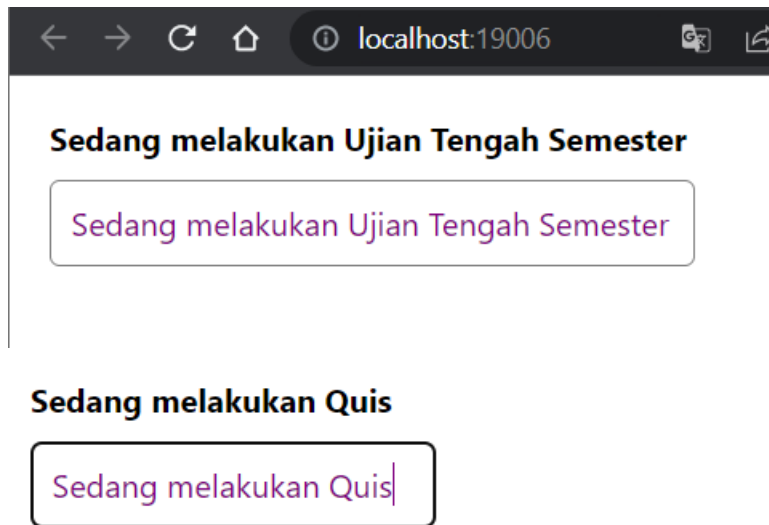
Contoh "sedang melaksanakan Ujian Tengah semester"

Teks ujian Tengah Semester Dynamic sesuai apa yang di imputkan 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                  autoCorrect={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          borderRadius: 5,
 39          padding: 10,
 40          fontSize: 16,
 41          color: "purple",
 42      }
 43  });
```

- Output:

Sedang melakukan Ujian Tengah Semester

Sedang melakukan Ujian Tengah Semester

Sedang melakukan Quis

Sedang melakukan Quis

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}
```
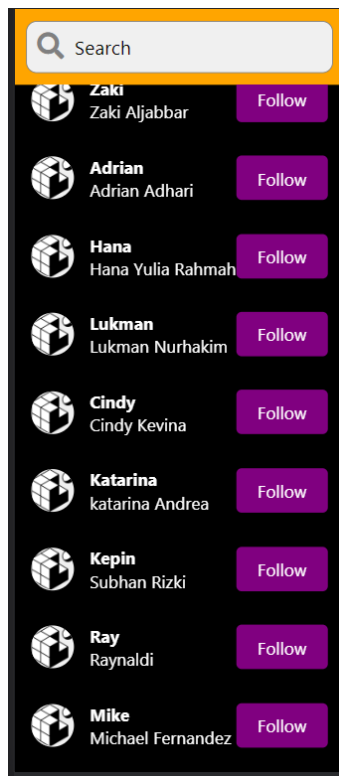
- FlatList
  - Code:

```
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;
```

```
App.js  M        JS MyFriends.js U ×    JS ExpFlatList.js U    JS Dummy.js U    JS Page1.js U
omponents > 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;
```
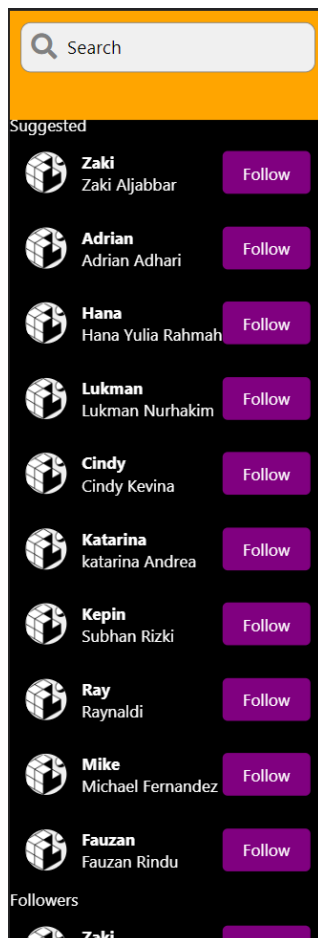
- Output:

- 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;
```
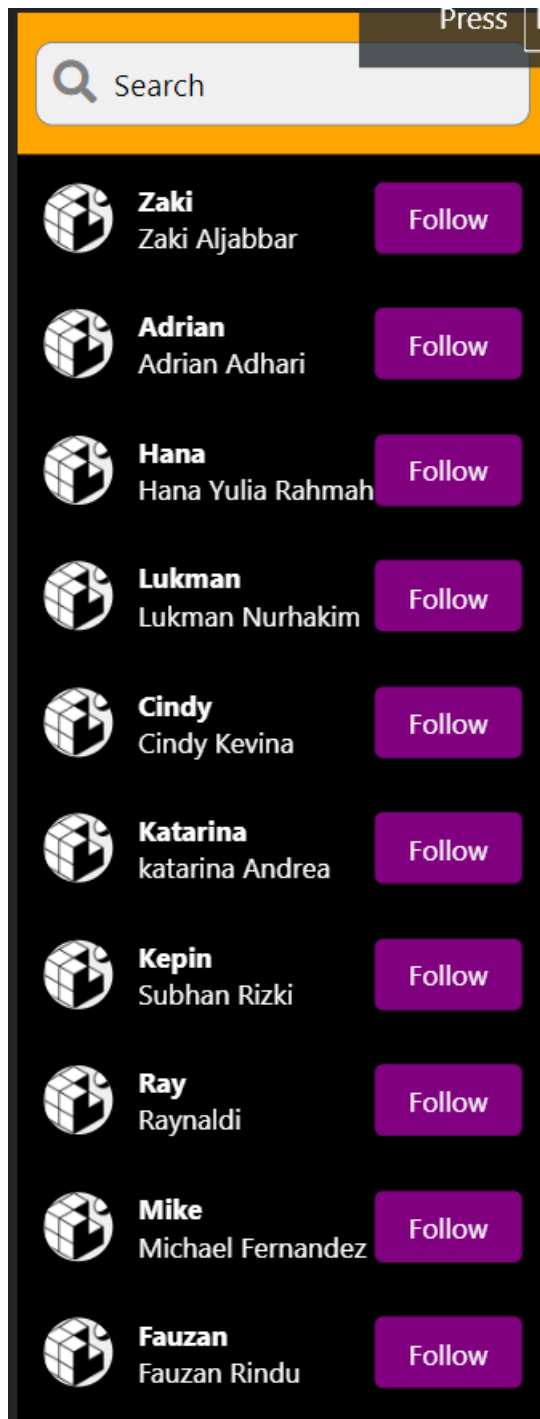
- Output:

- 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

```javascript
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;
```

```javascript
components > JS LogIn.js > [∅] LogIn > [∅] 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
13         setLoggedIn(true);
14       } else {
15         alert("Login failed. Please check your email and password.");
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           />
```

```jsx
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        fontWeight: "bold",
79        marginBottom: 10,
80        fontSize: 16,
81      },
82      text_input: {
83        borderWidth: 1,
84        borderColor: "grey",
85        borderRadius: 5,
86        padding: 10,
87        fontSize: 16,
88        color: "grey",
89      },
90      btn_signin: {
91        backgroundColor: "blue",
92        paddingVertical: 15,
93        paddingHorizontal: 10,
94        borderRadius: 10,
95        marginTop: 15,
96      },
97      btn_signin_text: { color: "white", textAlign: "center", fontSize: 16 },
98    });
```

Email

212310060@student.ibik.ac.id

Password

•••••• 👁

LogIn

Welcome to Home Page

7. Buat contoh navigasi masing-masing 1

```
omponents > JS Page1.js > [@] 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, maegin: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
import { StatusBar } from "expo-status-bar";
import { NavigationContainer } from "@react-navigation/native";
import { createNativeStackNavigator } from "@react-navigation/native-stack";
import Page1 from "./components/Page1";
import Page2 from "./components/Page2";
import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";
import MyFriends from "./components/Friends/MyFriends";

export default function App() {

  const Stack = createNativeStackNavigator();

  return (
    <NavigationContainer>
      <Stack.Navigator>
        <Stack.Screen
          name="page1"
          component={Page1}
          options={{title:"welcome"}}
        />
        <Stack.Screen name="Page2" component={Page2} />
      </Stack.Navigator>
    </NavigationContainer>
  );
}
```

localhost:19006

welcome

click here to see me

localhost:19006

← Page2

This is Michael's profile

- Bottom tabs navigator:

```js
import { StatusBar } from "expo-status-bar";
import { NavigationContainer } from "@react-navigation/native";
import { createNativeStackNavigator } from "@react-navigation/native-stack";
import Page1 from "./components/Page1";
import Page2 from "./components/Page2";
import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";
import MyFriends from "./components/Friends/MyFriends";


export default function App() {
  const Tab = createBottomTabNavigator ();
  return (
    <NavigationContainer>
      <Tab.Navigator>
        <Tab.Screen name="Home" component={Page1} />
        <Tab.Screen name="Profile" component={Page2} />
      </Tab.Navigator>
    </NavigationContainer>

  )
}
```