

React Navigation

Routing and navigation for your React Native apps

<https://reactnavigation.org/>

This command will force clean the entire NPM cache:

- `npm cache clean -f`
- `npm i`

Installation of Dependencies

1. Install react-navigation

`npm install @react-navigation/native --save`

2. Other supporting libraries react-native-gesture-handler, react-native-reanimated, react-native-screens and react-native-safe-area-context and @react-native-community/masked-view

`npm install react-native-reanimated react-native-gesture-handler react-native-screens react-native-safe-area-context @react-native-community/masked-view --save`

3. For the Stack Navigator install

`npm install @react-navigation/stack --save`

Navigate Between Screens using React Navigation V5 in React Native

1. Installation of React Navigation Library (Which we will see below)
2. Setup NavigationContainer which is an index of the app. Here you list all the screens as a component and provides the name to them.
3. Stack Navigator is used to moving/navigate between screens

A different type of switching operations :

1. Navigating to new screen

```
navigation.navigate('SecondPage')
```

- navigation – the navigation prop is passed into every screen component in stack navigator
- navigate('SecondPage') – we call the navigate function with the name of the route that we'd like to move the user to.

A different type of switching operations :

2. Navigate to a route multiple times

- If you have any situation where you are on the SecondPage and have to open SecondPage again then you will see making `navigation.navigate('SecondPage')` the route will do nothing. It also makes sense for the normal case that why anybody wants to switch to the same screens? but for the special cases, they have provided `navigation.push`

```
navigation.push( 'SecondPage' )
```

A different type of switching operations :

3. Going back

- The header provided by the stack navigator will automatically include a back button when it is possible to go back from the active screen (If there is only one screen in the navigation stack, there is nothing that you can go back to, and so there is no back button).

```
navigation.goBack();
```

A different type of switching operations :

4. Go back to the first screen in the stack

- If you want to go back to multiple screens, for example, if you are several screens deep in a stack and want to dismiss all of them to go back to the first screen of the stack then you can use

```
navigation.popToTop()
```

- This will discard all the screens of the stack and will take you to the first screen in the stack.

A different type of switching operations :

5. Replace Screen in Stack

- There are some cases which need to change the screen without keeping the last screen. For example, I have navigated to SecondPage from FirstPage and then want to navigate to ThirdPage but without keeping SecondPage in the Stack then I can use

```
navigation.replace('ThirdPage')
```

- This will replace the SecondPage with the ThirdPage and will not keep SecondPage in the stack which means when we go back from the ThirdPage we will see FirstPage instead of the SecondPage.

A different type of switching operations :

6. Reset Navigator State

- This is a bit different thing as all the above-mentioned navigation functions are to manage the different types of navigations but this function will help you to reset your navigation state in runtime.
- For example, If you want to land the user on different screens on the basis of different permissions then you can use this to reset the navigator.

```
navigation.reset({  
  index: 0,  
  routes: [{ name: 'ThirdPage' }],  
})
```

Here I have reset the ThirdPage as an initial page of the stack.

Coding:

- 2.To Make a React Native App(Navigate)-Moving between screens
- 3.Passing parameters to routes
- 4.To Make a React Native App(Navigate)

Drawer navigation

- Install

```
npm install @react-navigation/drawer
```