The community solution to navigation is a standalone library that allows developers to set up the screens of an app with just a few lines of code.

introducing react-navigation

Three main types of navigators

StackNavigator
TabNavigator
DrawerNavigator

StackNavigator

Step 1: Install react-navigation

npm i react-navigation —save

StackNavigator

Step 2: import StackNavigator into your component

```
import {
   StackNavigator,
} from 'react-navigation';
```

StackNavigator

StackNavigator takes two arguments

```
StackNavigator(RouteConfigs: object, StackNavigatorConfig: object)

const MyHomeRoutes = StackNavigator({
   Home: { screen: Home },
   Info: { screen: Info }
},{
   initialRouteName: 'Info',
});
```

StackNavigator

Step 3: Create navigation screens using components

```
const App = StackNavigator({
  Home: { screen: Home },
  Info: { screen: Info },
});
```

Step 4: Render Navigation

```
AppRegistry.registerComponent('App', () => App);
```

StackNavigator - Basic Implementation

StackNavigator - Navigation Options

```
const Home = () => (
  <Text>Hello from Home</Text>
Home.navigationOptions = {
 title: 'Home'
// or
class Home extends React.Component {
  static navigationOptions = {
    title: 'Home'
  render() {
    return
      <Text>Hello from Home</Text>
```

StackNavigator - navigation prop

Every scene receives a navigation prop (object) with these properties:

navigate - (helper) link to other screens state - screen's current state/routes setParams - (helper) make changes to route's params goBack - (helper) close active screen and move back dispatch - send an action to router

StackNavigator - Pushing / Popping Routes

```
const Home = (props) => (
    <Text onPress={() => props.navigation.navigate('Info')}>Hello from Home</Text>)

const Info = ({ navigation }) => (
    <Text onPress={() => navigation.goBack()}>Hello from Info</Text>
)
```

TabNavigator

Step 1: import TabNavigator into your component

```
import {
   TabNavigator,
} from 'react-navigation';
```

TabNavigator

TabNavigator also takes two arguments

```
TabNavigator(RouteConfigs: object, TabNavigatorConfig : object)

const App = TabNavigator({
   Home: { screen: Home },
   Info: { screen: Info }
},{
   tabBarOptions:{
     activeTintColor: '#ff9900',
     // showIcon is only necessary for android
     showIcon: true,
   },
});
```

TabNavigator - Basic Implementation

```
const Home = () => (
  <Text>Hello from Home</Text>
const Info = () => (
  <Text>Hello from Info</Text>
const App = TabNavigator({
  Home: { screen: Home },
  Info: { screen: Info }
  tabBarOptions:{
    activeTintColor: '#ff9900',
    // showIcon is only necessary for android
    showIcon: true,
});
AppRegistry.registerComponent('App', () => App)
```

TabNavigator - Add Icons

```
const Home = () => (
    <Text>Hello from Home</Text>
)

Home.navigationOptions = {
    tabBarIcon: ({ tintColor }) => (
        <Image
        source={require('./homeicon.png')}
        style={{ width: 24, height: 24, tintColor }}
    />
    ),
}
```

TabNavigator - Nested Navigators

First, move navigationOptions into screen configuration

TabNavigator - Nested Navigators

Next, update Home to have a link to navigate, and add a new About route

TabNavigator - Nested Navigators

Now, create new route stack using StackNavigator

```
const HomeRouteStack = StackNavigator({
   Home: { screen: Home },
   About: { screen: About }
})
```

And replace existing Home route with new HomeRouteStack

```
const Nav = TabNavigator({
   Home: {
      screen: HomeRouteStack,
      },
   Info: { screen: Info },
});
```

DrawerNavigator

Step 1: import DrawerNavigator into your component

```
import {
   DrawerNavigator,
} from 'react-navigation';
```

DrawerNavigator

DrawerNavigator also takes two arguments

```
DrawerNavigator(RouteConfigs: object, DrawerNavigatorConfig : object)

const App = DrawerNavigator({
   Home: { screen: Home },
   Info: { screen: Info }
}, {
   contentOptions:{
     activeTintColor: '#ff9900'
   },
});
```

DrawerNavigator - Basic Implementation

DrawerNavigator - Adding Icons