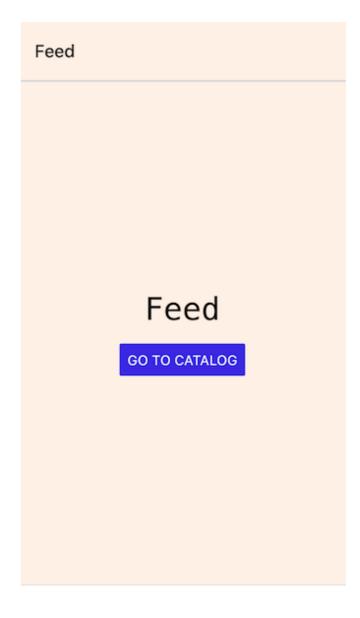
Cheatsheets / Learn React Native



Navigation

Stack Navigation

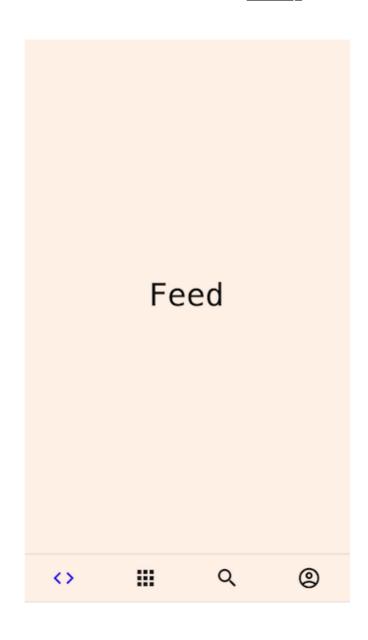
In the *stack navigation* pattern, a user has to go from screen to screen to navigate through all screens, where each one is pushed on a stack. The only UI rendered is a header with the screen title and a back button.





Tab Navigation

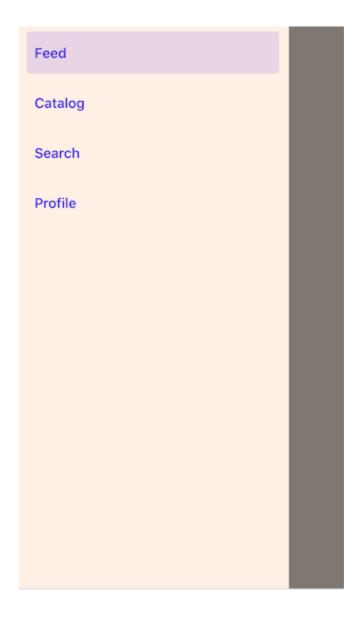
In the *tab navigation* pattern, a user uses a tab bar to switch between screens.





Drawer Navigation

In the *drawer navigation* pattern, a user uses a pane that can be opened by either swiping or tapping a button, which provides a menu where users can switch between screens.



NavigationContainer Component

In the react-navigation library, components to be organized must be wrapped in a

NavigationContainer component since it keeps track of the navigation structure and makes sure the navigators can operate.



createStackNavigator Factory Method

In the react-navigation library, the stack navigator is created by the $\mbox{createStackNavigator}$ factory method.

createBottomTabNavigator Factory Method

In the react-navigation library, the bottom tab navigator is created by the createBottomTabNavigator factory method.



useNavigation Hook

In the react-navigation library, the useNavigation hook provides access to the navigation API and can be used to move users to different screens. It returns an object which is also passed as a navigation prop to screens and has multiple methods, including navigate (takes a screen name argument) and goBack.

```
const FeedScreen = (props) => {
  const nav = props.navigation;
    <Button
      title="Go to home"
      onPress={ () =>
nav.navigate('Home')}
  );
const HomeButton = () => {
  const nav = useNavigation();
  return (
    <Button
      title="Go to home"
      onPress={ () =>
nav.navigate('Home')}
  );
```

Factory Methods

In the react-navigation library, all navigators are created by factory methods that use a naming pattern like create<type>Navigator(), which returns an object with Navigator and Screen properties. These properties are unique components that you must use when rendering the navigation structure.



