

Expo Router

File Based Routing in React Native



Jonathan Bones & Oliver Kwast • Kiel React (Native) Meetup • 06.12.2022

The Spec.

- View a feed of posts
- View a list of profiles
- Tap on a profile to view more detailed user information
- Needs to be hardcore
- MVP deadline: End of this talk 🚀

Fleeter

So where do we begin?

Navigation

- Entry-point
- Stack
- Tabs
- A modal for creating posts
- Drawer (optional)

@react-navigation

```
function FeedScreen() {
  return (
    <View style={{ flex: 1, alignItems: 'center', justifyContent: 'center' }}>
      <Text>Feed</Text>
    </View>
  );
}

function ProfileListScreen() {
  return (
    <View style={{ flex: 1, alignItems: 'center', justifyContent: 'center' }}>
      <Text>Profile List</Text>
    </View>
  );
}

const Stack = createNativeStackNavigator();

function App() {
  return (
    <NavigationContainer>
      <Stack.Navigator initialRouteName="Feed">
        <Stack.Screen name="Feed" component={FeedScreen} />
        <Stack.Screen name="Profiles" component={ProfileListScreen} />
      </Stack.Navigator>
    </NavigationContainer>
  );
}

export default App;
```

How about file-based routing?

File Based Routing

expo-router

- File location determines navigation hierarchy
 - Single source of truth 🏆
- Scalable solution that requires less boilerplate
- Easier to maintain and simpler to refactor
- Tooling automatically takes care of many tedious configuration tasks

Getting Started

- Update entry-point
- Babel plugin (whilst in Beta)

```
module.exports = function (api) {  
  api.cache(true);  
  return {  
    presets: ["babel-preset-expo"],  
    plugins: [  
      // NOTE: `expo-router/babel` is a temporary extension to `babel-preset-expo`.  
      require.resolve("expo-router/babel"),  
      "react-native-reanimated/plugin",  
    ],  
  };  
};
```

An initial screen

A stack for your thoughts



How about tabs?

Modal? 

Bet you can't make a drawer

Ok, ok... Deep-Links?

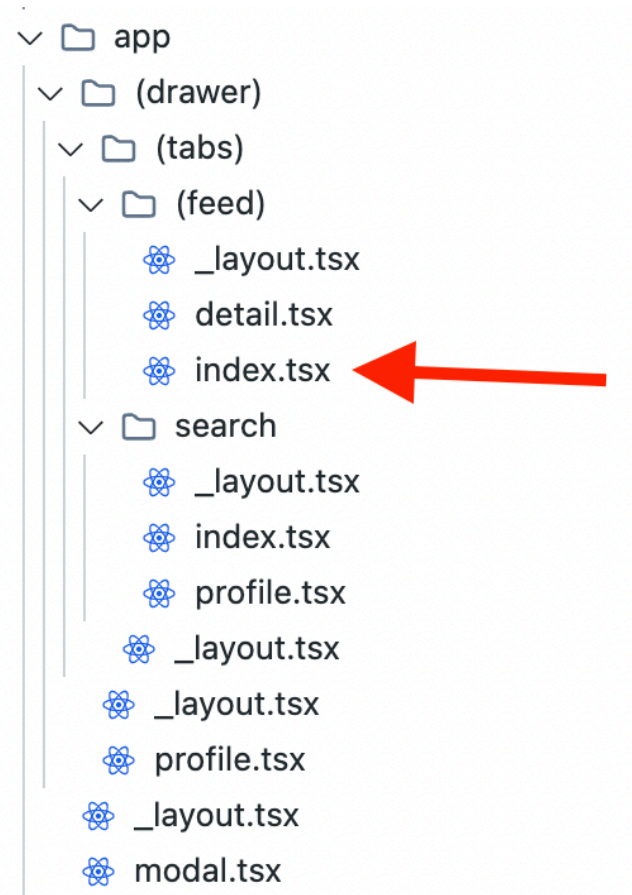
Our Experience

- File-based routing mindset
- Still in beta (⚠ changes ahead)
 - Issues with FastRefresh
 - TS support will improve
- Feels quick and relatively intuitive

```

✓  app
  ✓  (drawer)
    ✓  (tabs)
      ✓  (feed)
        _layout.tsx
        detail.tsx
        index.tsx
      search
        _layout.tsx
        index.tsx
        profile.tsx
        _layout.tsx
        _layout.tsx
        profile.tsx
        _layout.tsx
        modal.tsx

```



Future Roadmap

- Universal scroll-to-top
- Improved TS support
- Web improvements (e.g. Server components)
- View-restoration
- App-clips (iOS)

Thanks for listening!

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