

Navigation in Flutter

ทำความรู้จักกับระบบ navigation ใน Flutter



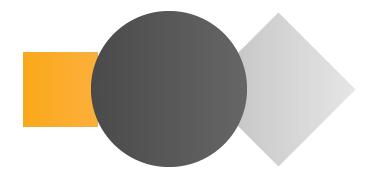
About this section

- Navigation in Application
- Navigator 1.0
- Navigator 2.0





Navigation in Application



Navigation

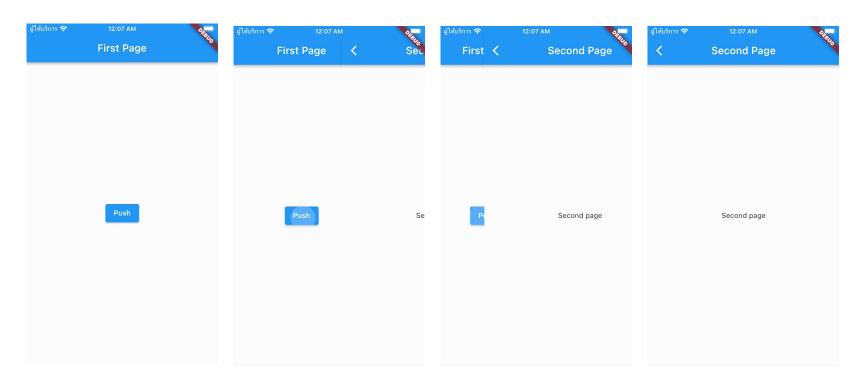
Full-screen

Screen that covers existing screen

Modal (Popup)

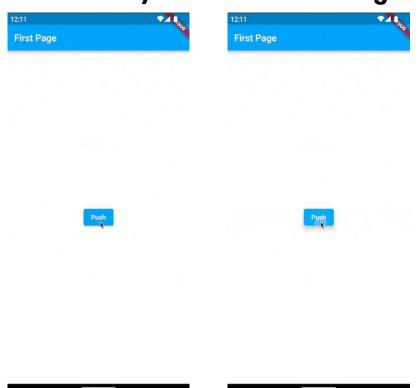
Screen that partially covers existing screen

iOS-style full-screen navigation





Android-style full-screen navigation







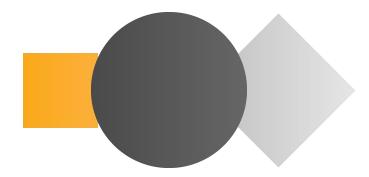


Modal









Full-screen route

```
Navigator.push(context, MaterialPageRoute<void>(
  builder: (BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text('My Page')),
      body: Center(
        child: TextButton(
          child: Text('POP'),
          onPressed: () {
            Navigator.pop(context);
          },
));
```



Named route

- กำหนด WidgetBuilder สำหรับแต่ละ path
- เปลี่ยนหน้าด้วย pushNamed

```
void main() {
  runApp(MaterialApp(
    home: MyAppHome(), // becomes the route named '/'
  routes: <String, WidgetBuilder> {
    '/a': (BuildContext context) => MyPage(title: 'page A'),
    '/b': (BuildContext context) => MyPage(title: 'page B'),
    '/c': (BuildContext context) => MyPage(title: 'page C'),
    },
  ));
}
Navigator.pushNamed(context, '/b');
```

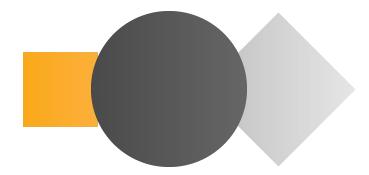


Cons of 1.0

- Supports only push and pop
- Not supports history stack for web
- Need to come up with new design for Flutter for web







Upgraded version

Resolve pain points from 1.0

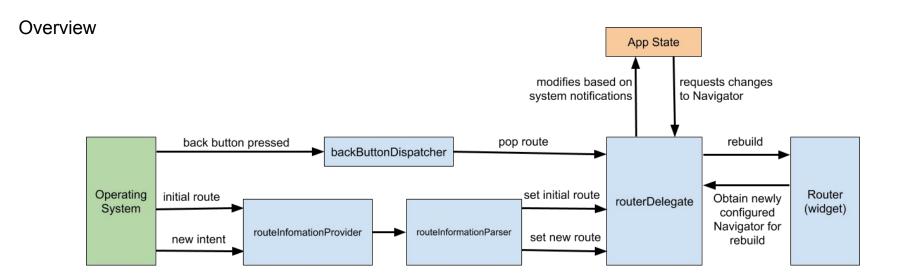
Declarative style

กำหนดทุกอย่างผ่านโค้ด มี template ชัดเจน

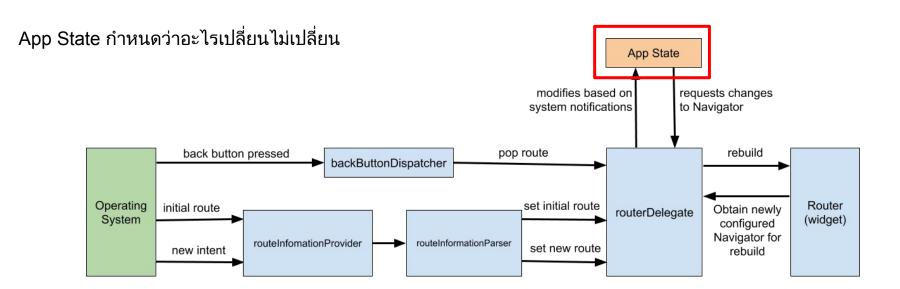
Flutter for Web supported

รองรับ platform อื่นๆมากขึ้น, params

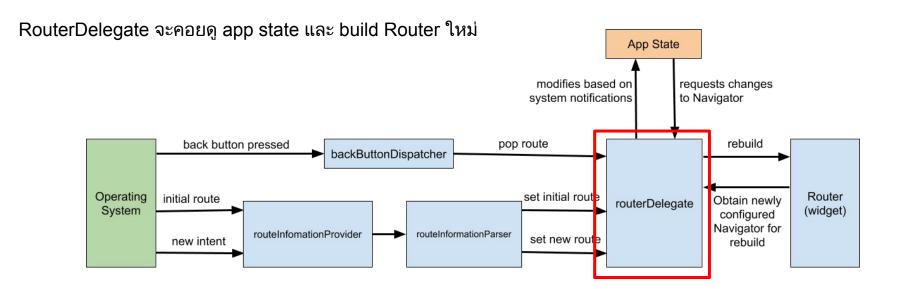




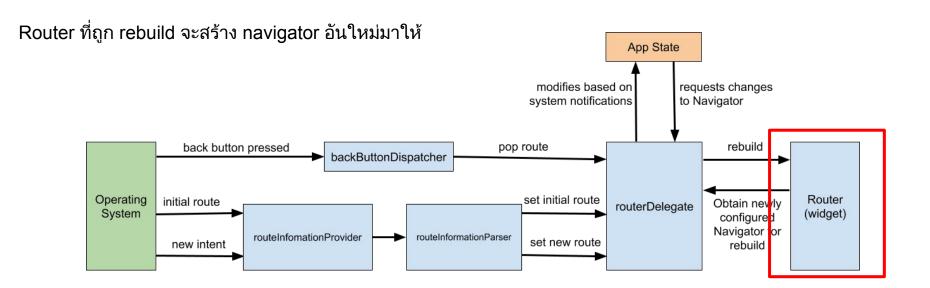




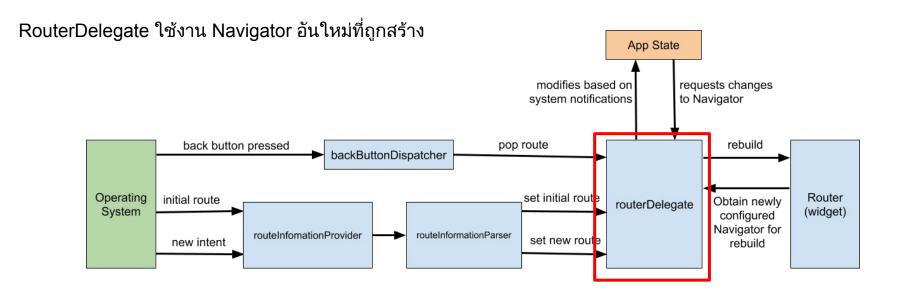




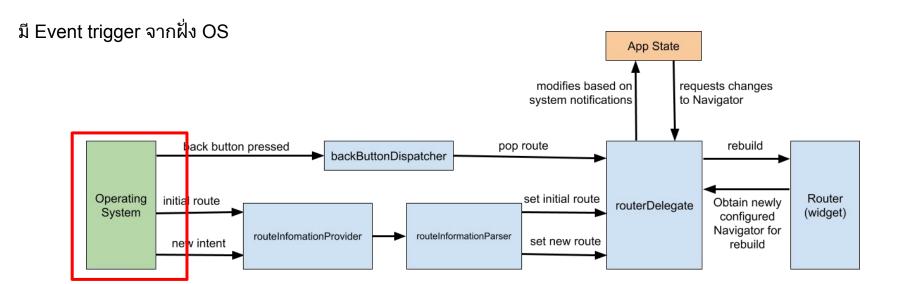




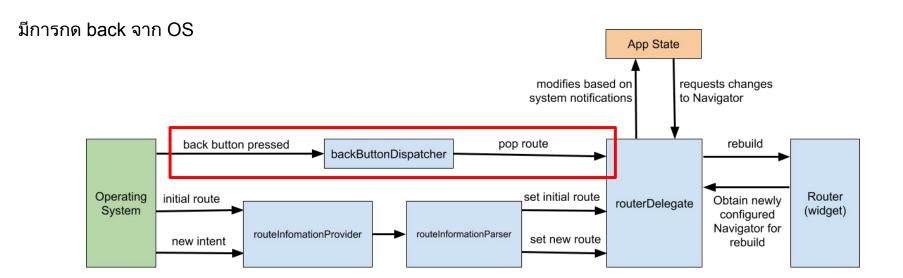




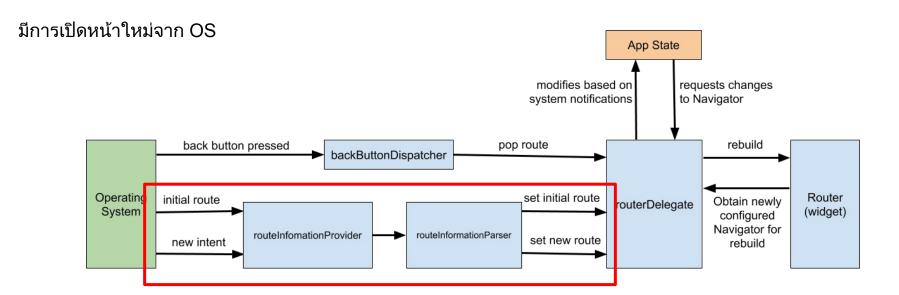












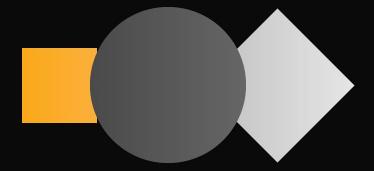


- Navigator: ทำหน้าที่ navigate ระหว่าง route
- RouterDelegate: สร้าง Navigator และตัดสินใจเลือก Router ที่จะแสดง ขึ้นอยู่กับ App State
- Page: สร้าง Route และ Widget ที่จะนำมาแสดงควบคู่ไปด้วย, เก็บใน stack
- RouteInformationParser: ตัวช่วยดึงข้อมูล Route จาก RouteInformation
- Router: Widget สำหรับเชื่อม RouterDelegate และ RouteInformationParser





Demo





Workshop 3

Build a simple application with Navigation

