

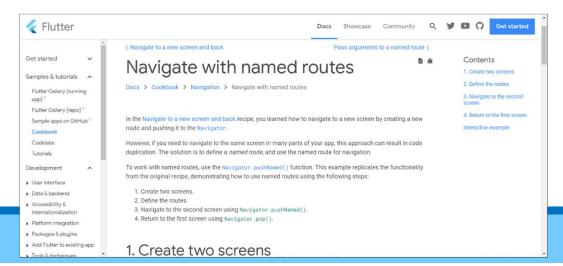


Adding Routing

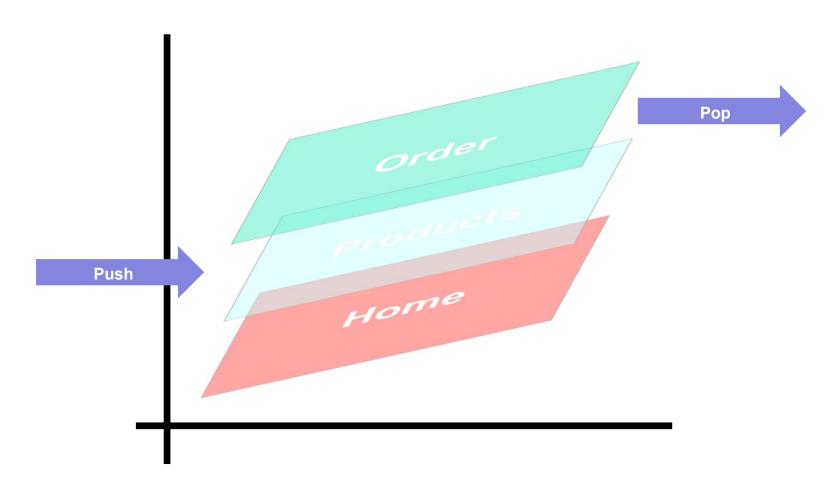
Switchting between screens in your application

Adding routing

- Routing in Flutter is different from routing in web apps
- You stack screens on top of each other while routing
- Use the Navigator object to push new (named)
 routes to the stack
- https://flutter.dev/docs/cookbook/navigation/named-routes



Routing stack



Adding Routing



- The MaterialApp () widget has built-in routing
- Use initialRoute to set the start screen
 - then don't use the home: property!
- Use routes: to define a Map with routes
- A Dart Map is like a JavaScript object
 - key/value-pairs
- Use Navigator.pushNamed() to push a new screen to the stack

AppBar()

- When using an AppBar() widget, it shows a Backbutton automatically
- Use Navigator.pop() to navigate from code to the previous screen
- Always provide context as an argument, to let Flutter know 'where you are in the app'.

Yeah. It's magic.

Steps. 1: Create additional screens



- Create a screen showing details of the country
 - Name: screens/country detail.dart
 - For now it's a simple Stateful widget
 - We'll pass arguments
 with the specific country
 next

2. Build the routing table



3. Navigating to detail route



```
ListTile(
  onTap: () {
     Navigator.pushNamed(context, '/detail');
  },
        Clear
                                           Q Search
                                                           flutter_example
            Portugal
                                                                                      Country deta
         Uganda
                                                        Showing country details....
```

4. Sending arguments/parameters



- Use the arguments: property
- Send (in this case) the name of the country
- In the detail route: do an additional http-request to lookup the country, based on the name

```
onTap: () {
   // navigate to detail page
   Navigator.pushNamed(context, '/detail',
        arguments: {'name': countries[index]['name']['common']});
},
```

5. Retrieving parameters



- In the detail component
 - Import http, convert package
 - Create variables to hold the routing data & found country
 - Get the countryData in the build function
 - Create additional UI to show the found country

Getting the country

```
// 0. Variables in this widget
String url = 'https://restcountries.com/v3.1/name/';
Map routingData = {};
String countryName = '';
List countries = [];
// 1. Get the requested country
void getCountry(name) async { ...}
@override
Widget build(BuildContext context) {
 // Get the parameters from the router
 routingData = ModalRoute.of(context)?.settings.arguments as ...;
 // Check if there already is a country. If not, fetch it.
  countries.length == 0 ? getCountry(routingData['name']) : null;
```

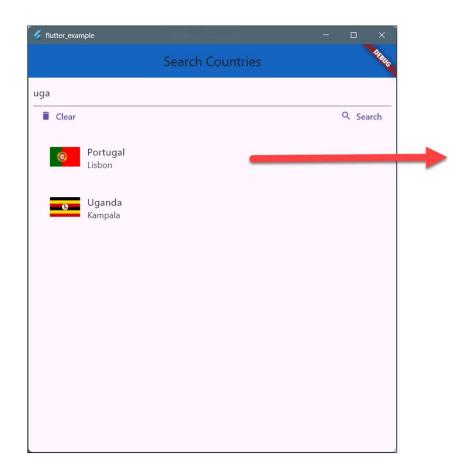
Create UI

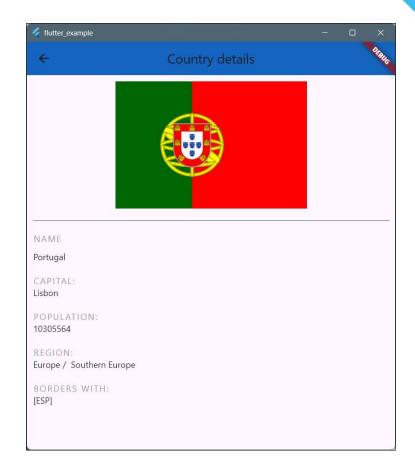
Use widgets of your choice (ListView, Column, Image,

Text, Sizedbox, etc) to build the UI.

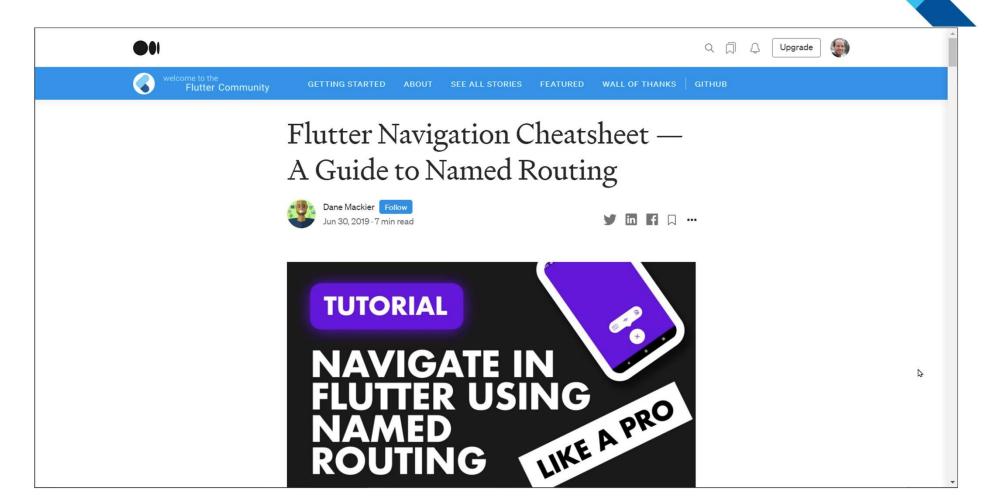
```
body: ListView.builder(
  itemCount: countries.length,
  itemBuilder: (BuildContext context, int index) {
    return Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: <Widget>[
        Center(
          child: SvgPicture.network(
            countries[index]['flags']['png'],
          ),
        Text(
          'NAME:',
          style: TextStyle(color: Colors.grey, letterSpacing: 2),
```

Result



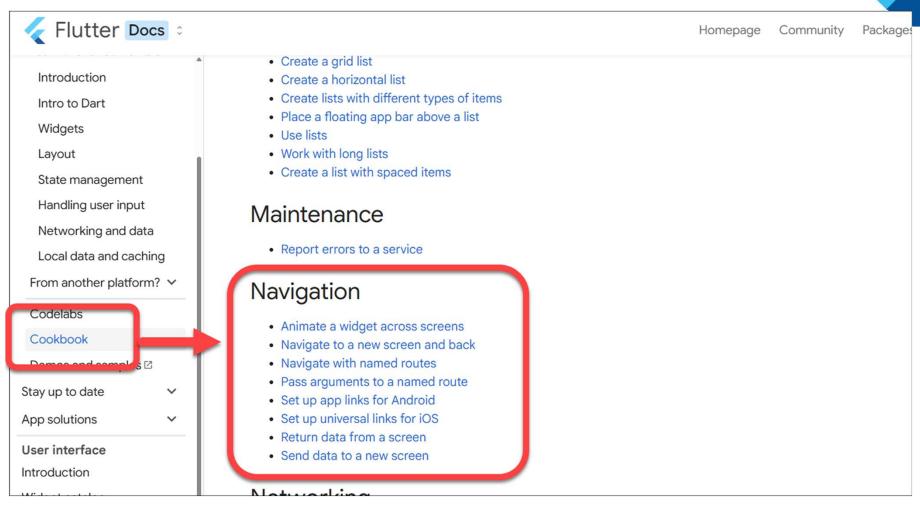


More information on routing



https://medium.com/flutter-community/flutter-navigation-cheatsheet-a-guide-to-named-routing-dc642702b98c

Navigation cookbook



https://flutter.dev/docs/cookbook/navigation

Workshop

- Continue with the typicode (users) API from the previous workshop
- Implement routing:
 - show a list of users on the homepage
 - When clicked on a user, show its details in the next page
- Optional: create a button to navigate back to the homepage (instead of using the built-in AppBar())
- Optional: implement a TabBar() that a user can navigate from
 - https://api.flutter.dev/flutter/material/TabBarView-class.html
- examples: ../_300-routing, ../_310-routing-detail

