





Mobile App



CLASS 04

01 Assets

02 Routing

03 Slivers

04 Custom ScrollView







What is it?

An asset is a file that is bundled and deployed with your app, and is accessible at runtime. Common types of assets include static data (for example, JSON files), configuration files, icons, and images (JPEG, WebP, GIF, animated WebP/GIF, PNG, BMP, and WBMP).









How to define assets.

Assets are defined in pubspec.yaml file that is found in the root directory of a flutter project.

```
EXPLORER

VOPEN EDITORS

BIT_FIRST_SESSION

Idea

Image: Selection of the content of the content
```

```
bit_first_session - pubspec.yaml

uses-material-design: true

assets:
    - assets/logo.png
    # your rest of assets go here.
    # the assets folder can be named in your choice.

### The assets folder can be named in your choice.
```









Reading assets.

```
1 Scaffold(
2    appBar: AppBar(
3        automaticallyImplyLeading: false,
4        title: Text("Logo Page"),
5    ),
6    body: Center(
7        // reading Image assets
8        child: Image.asset("assets/logo.png")),
9    )
```

```
Future _readJson() async {
   var _data = await rootBundle.load("assets/data.json");
   // process your data
}
```







Routing & Navigation in Flutter

is the concept of switching between pages or screens without necessarily changing the initial page. Flutter has an imperative routing mechanism, the Navigator widget, and a more idiomatic declarative routing mechanism (which is similar to build methods as used with widgets), the Router widget.

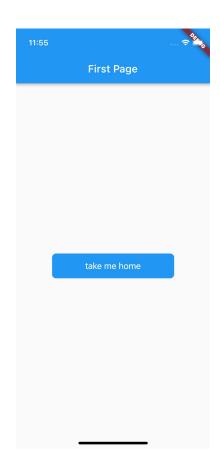


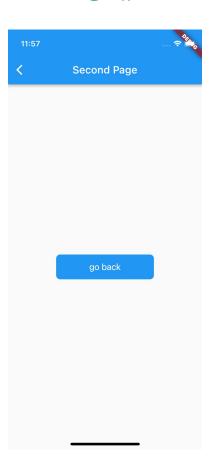




Routing & Navigation in Flutter

Example - Suppose you have to pages named FirstPage() & SecondPage()













Navigation - Example

```
class FirstPage extends StatelessWidget {
      const FirstPage({Key? key}) : super(key: key);
      @override
      Widget build(BuildContext context) {
        return Scaffold(
          appBar: AppBar(
            automaticallyImplyLeading: false,
            title: Text("First Page"),
          body: Center(
            child: CupertinoButton(
                color: Colors.blue,
                child: Text("take me home"),
                onPressed: () {
                 Navigator.of(context).push(
                      new MaterialPageRoute(builder: (context) => SecondPage()));
```

```
class SecondPage extends StatelessWidget {
      const SecondPage({Key? key}) : super(key: key);
      @override
      Widget build(BuildContext context) {
        return Scaffold(
          appBar: AppBar(
            automaticallyImplyLeading: false,
            title: Text("Second Page"),
          body: Center(
            child: CupertinoButton(
                color: Colors.blue,
                child: Text("go back"),
                onPressed: () {
                 // pop action is used to remove the current page from the page stack
                 Navigator.of(context).pop();
```





Sliver



what is it?

A sliver is a portion of a scrollable area that you can define to behave in a special way. You can use slivers to achieve custom scrolling effects, such as elastic scrolling.









what is it?

is a scroll view widget that allows us to create various scrolling effects such as grids, lists, and expanding headers. It has a **sliver property** where we can pass a list of widgets that include SliverAppBar, SliverToBoxAdapter, SliverList, and SliverGrid, etc.



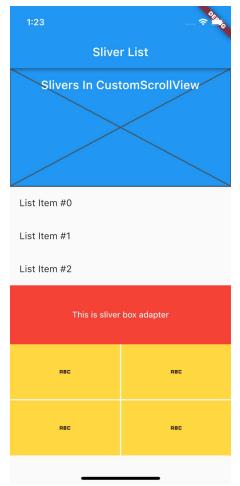






Custom Scrollview - example

```
1 CustomScrollView(
            slivers: [
              const SliverAppBar(
               title: Text("Slivers In CustomScrollView"),
                floating: true,
               flexibleSpace: Placeholder(),
               expandedHeight: 200,
               delegate: SliverChildBuilderDelegate(
                 (context, index) => ListTile(title: Text('List Item #$index')),
                 childCount: 3,
             SliverToBoxAdapter(
               child: Container(
                 color: Colors.red,
                 child: Center(
                   child: Text(
                     "This is sliver box adapter",
                     style: TextStyle(color: Colors.white),
              SliverGrid.count(
               crossAxisCount: 2,
               childAspectRatio: 2,
               crossAxisSpacing: 2,
               mainAxisSpacing: 2,
                children: List.generate(
                   (index) => Container(
                       color: Colors.amberAccent, child: Icon(Icons.abc))),
```









PRACTICE - Implement the design attached below with your instructor.



William John Malik Aggressive Investor		← Personal Data	← Community
Personal Data	>		Learn Stock, Educate the World
Settings	>	Your Name	Q Search something
		William John Malik	
E-Statement	>	Date of Birth	How to Start Investing in uStock Lemme tell you this, world of investing is really
Refferal Code	>	24 December 1999 V	really legit, especially using uStock. Why? Becaus
• FAQs	>	Your Job	Join Forum ▶
Our Handbook	>	Successor Designer	How to Predict the Candlestick
Community	>	Monthly Income	What is candlestick? It's like candle but not actually sweat candle, it's some bencmark to yo
		\$500 - \$3000 / year V	Join Forum ▶
Feel Free to Ask, We Ready	to Help	Gender	
		Male Female	Is Trading Safe for Newbie Investor?









- Forms
- Bottom Navs
- Dependency Injection
- Bloc, riverpod and get_it
- replicate this ui <u>design</u> only the light mode.









Thank you!

Hahu-Jobs

ለሀገር ልጅ በሀገር ልጅ!

Tesfahun Kebede

tesfahunkebede336@gmail.com





