```
Dev Mobile 'Flutter' {
        GDG Dev Bootcamp
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                        Computer Science Engineer
                        Mobile Developer | Freelancer
10
                  - 🐑 🛱 Audit, Consulting, Project Management,
11
                        SI Engineering, Big Data, ML, BI ...
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13
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```

```
Table Of 'Contents' {
             Thursday,
                        Session 1
             Feb 23th
                          < Introducing Mobile Dev by
                          targeting Flutter ... >
             Friday,
                          Session 2
             Feb 25th
                          < Introduction to Dart ... >
            Saturday,
                          Session 3
10
             Feb 27th
11
                          < Flutter Layouts ... >
12
```

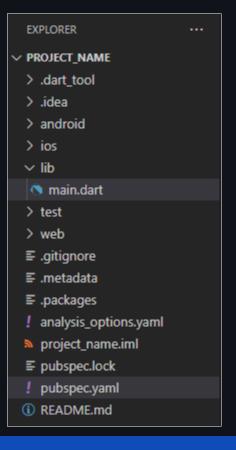




```
Flutter 'Ecosystem' {
             [ Flutter Project ]
          Create new project (command):
                   flutter create project_name

    we are mostly interested in the 2

            files:
10
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                   main.dart & pubspec.yaml
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```



```
Flutter 'Ecosystem' {
                                                          ! pubspec.yaml •
                                                          ! pubspec.yaml
                                                               name: project_name
                                                               description: A new Flutter project.
                                                               publish to: 'none' # Remove this line if you wish to publish to pub.dev
                                                               version: 1.0.0+1
              [ pubspec.yaml ]
                                                                 sdk: ">=2.15.0 <3.0.0"
9
10
                                                                  sdk: flutter
                                                                 # The following adds the Cupertino Icons font to your application.
                                                                 # Use with the CupertinoIcons class for iOS style icons.
12
                                                                 cupertino icons: ^1.0.2
13
                                                               dev dependencies:
14
```

```
Flutter 'Ecosystem' {
                                                              main.dart
                                                              lib > ♠ main.dart > ♣ _MyHomePageState > ♦ build
                                                                    import 'package:flutter/material.dart';
                                                                   void main() {
                                                                     runApp(const MyApp());
                                                                    class MyApp extends StatelessWidget {
                                                                     const MyApp({Key? key}) : super(key: key);
                   [ main.dart ]
                                                                     @override
                                                                     Widget build(BuildContext context) {
10
                                                                       return MaterialApp(
                                                                        title: 'Flutter Demo',
                                                                        theme: ThemeData(
                                                                          primarySwatch: Colors.blue,
                                                             16
                                                                        ), // ThemeData
12
                                                                        home: const MyHomePage(title: 'Flutter Demo Home Page'),
                                                                       ); // MaterialApp
13
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```

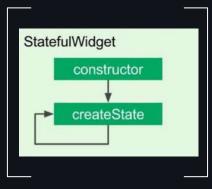
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```
Flutter 'Ecosystem' {
              [ StatelessWidget vs StatefulWidget ]
              StatelessWidget
                  constructor
                    build
8
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```

< A single StatelessWidget can build in many different Build Contexts: AssetImage, Text ... >



< A StatefulWidget creates anew State object for each Build Contexts : Scorallable, Animatable ... >

13

```
Flutter 'Ecosystem' {
                      [ StatelessWidget vs StatefulWidget ]
               class MyHomePage extends StatelessWidget {
                const MyHomePage({ Key? key }) : super(key: key);
                 @override
                Widget build(BuildContext context) {
                  return Container(
9
10
```

```
< StatelessWidget >
```

```
class MyHomePage extends StatefulWidget {
 const MyHomePage({ Key? key }) : super(key: key);
 @override
 MyHomePageState createState() => MyHomePageState();
class MyHomePageState extends State<MyHomePage> {
  @override
 Widget build(BuildContext context) {
   return Container(
```

```
< StatefulWidget >
```

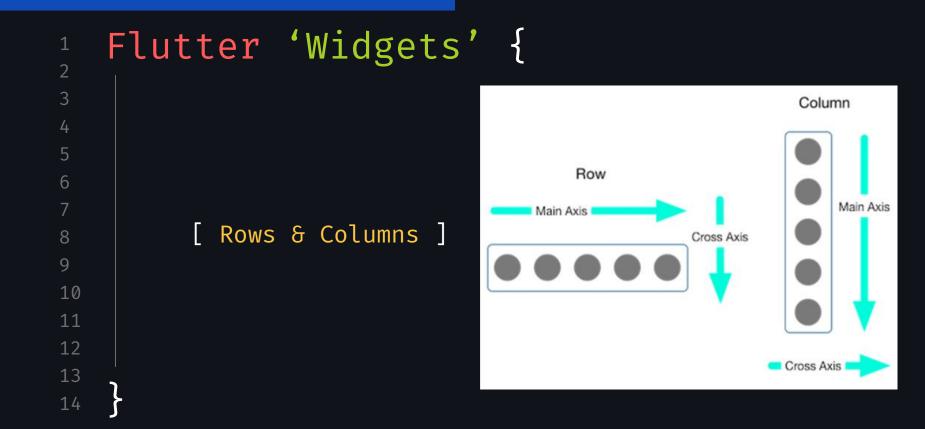










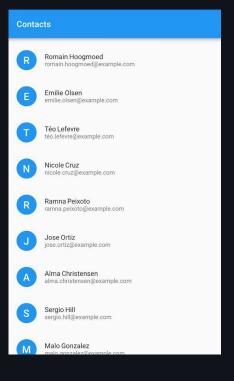


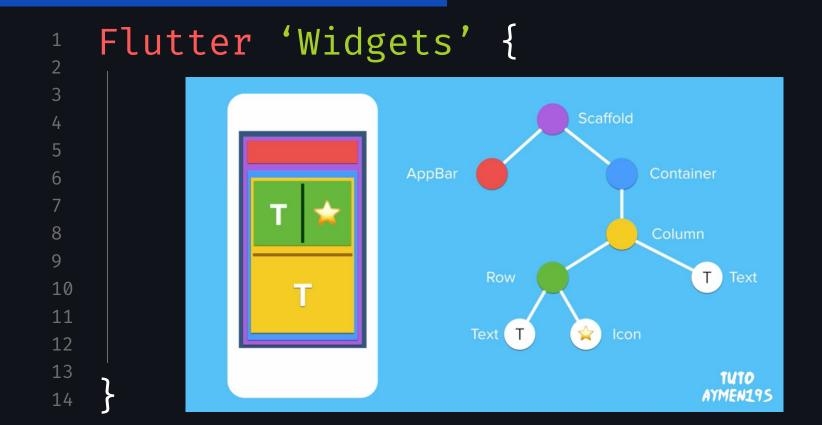


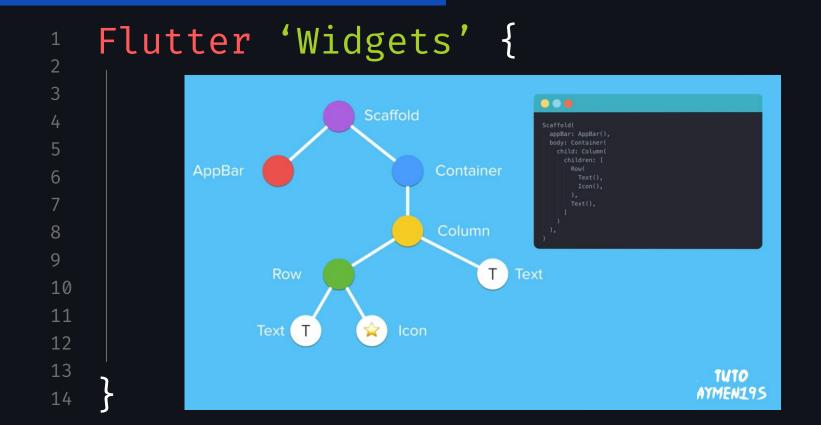




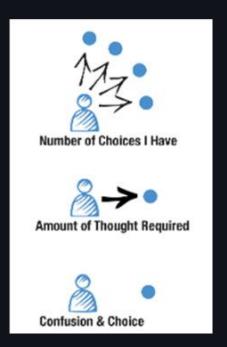




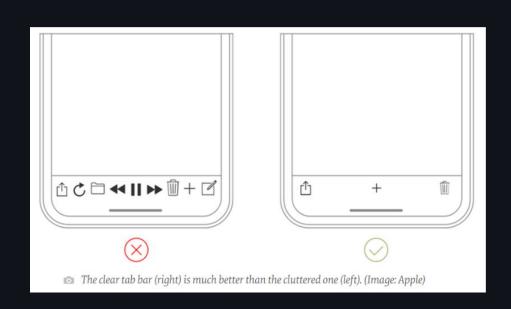




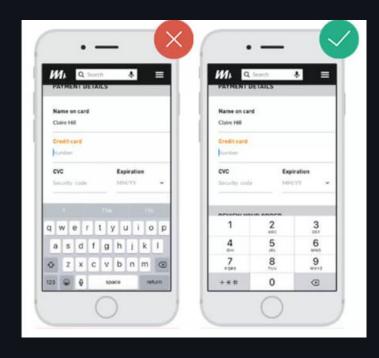




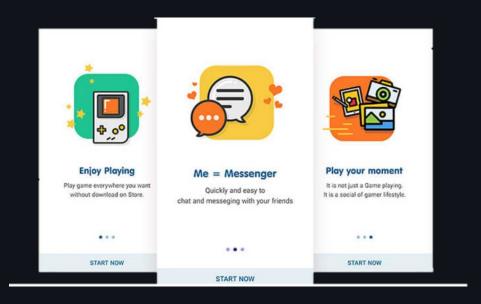
```
Build your own 'App' {
     'Some Mobile App
     Design concepts'
       [ Decluttering ]
8
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```



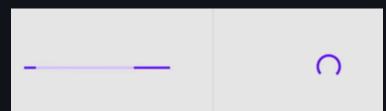
```
Build your own 'App' {
     'Some Mobile App
     Design concepts'
     [Offload tasks & Minimize
8
            efforts
10
```



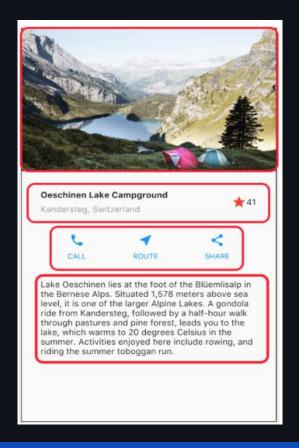
```
Build your own 'App' {
     'Some Mobile App
     Design concepts'
6
        [ Use familiar
          screens
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```



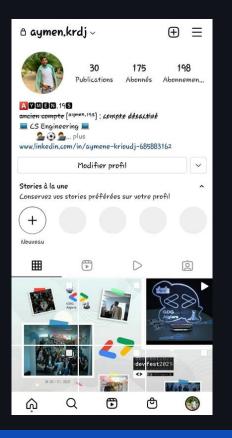
```
Build your own 'App' {
      'Some Mobile App
     Design concepts'
        [ Make it clear
        when loading is
          occurring ]
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```



```
Exercise < /1 > {
          • Which widgets are used in this
           screen?
          • Draw the widget tree.
10
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```



```
Exercise < /2 > {
6
          • Which widgets are used in this
            screen?
8
          • Draw the widget tree.
10
12
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```



```
Exercise < /3 >{

    Open DartPad in your browser.

    Choose a screen Design together.

    Build the screen in DartPad.

    Exercise < /extra >
10
                  Create new project in your desktop.
       ==
==
=:

    Open your code editor (preferably VsCode).

                ■ Build´"____" App.
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```

main.dart end.dart

```
Thanks; {
        'Do you have any questions?'
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            instagram.com/aymen.krdj/
10
            facebook.com/aymene19s/ (AymEn Krdj)
11
            twitter.com/avmen krdi/
12
            github.com/aymenkrioudj/
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```



main.dart end.dart

Alternative 'Resources' {

Here is an assortment of alternative resources to help you learn more about Flutter

- The official website "flutter.dev".
- Flutter Medium articles.
- YouTube playlist "Widget of the week".
- The Complete 2021 Flutter Development Bootcamp with Dart by The App Brewery.
- Stack Overflow "Flutter questions & answers".





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Acknowledgements & 'Rating' {

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Thank you for participating in my sessions in GDB. I hope you had as much fun attending as we had delivering them.

I invite you to fill this <u>anonymous form</u> and be as honest as possible

Your opinion matters to me, some constructive criticism is always welcomed so we can be the best version of ourselves

Thanks in advance and until the next adventure! 🎛





end.dart