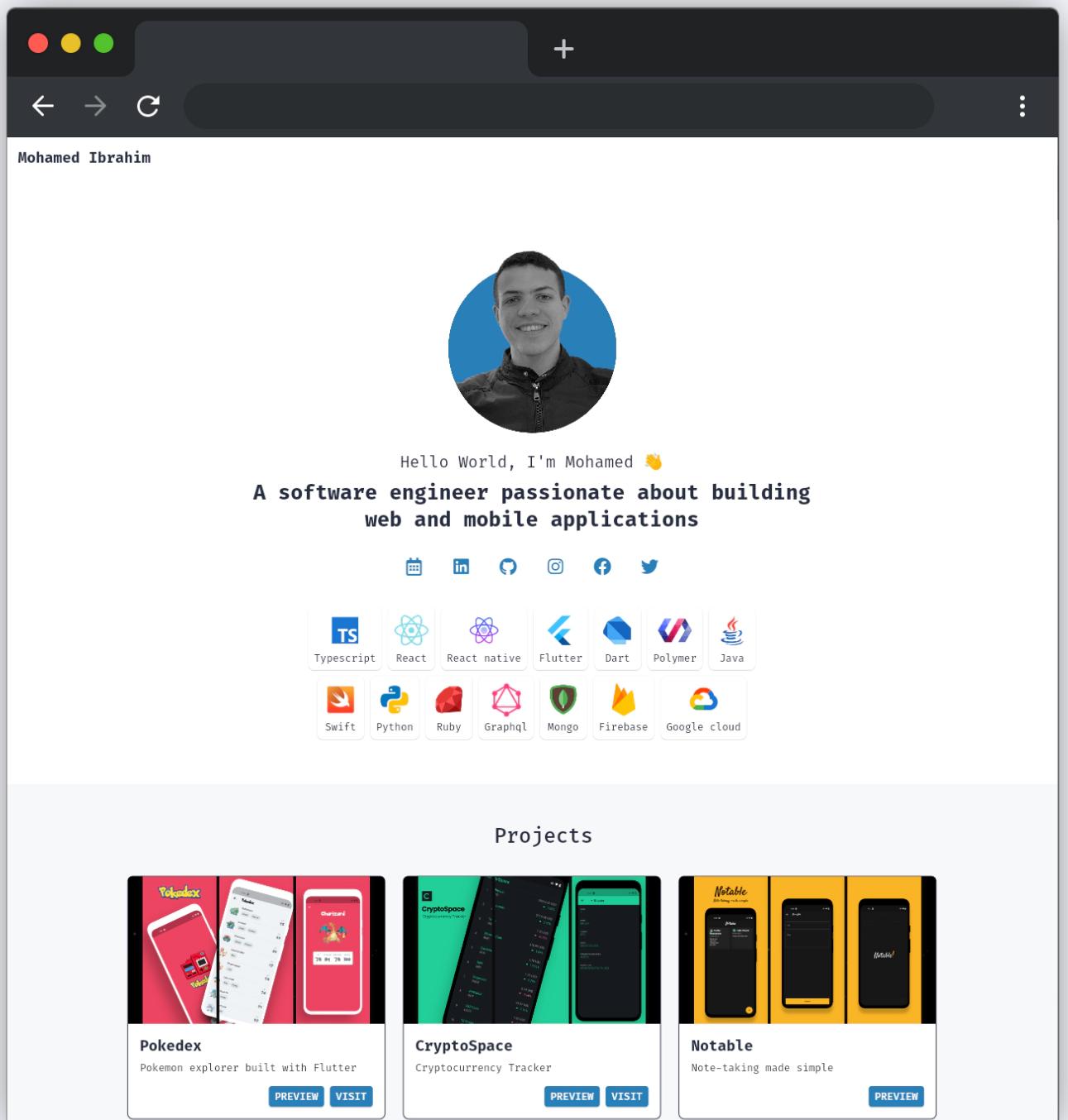


Building a Personal Portfolio

Mohamed Ibrahim

Today's challenge:

Building a personal portfolio



<https://mohamedibrahim.surge.sh/>

Starting a new flutter project

```
$flutter create folio
```

Name of your project

```
$cd folio
```

```
$code . // open in vscode
```

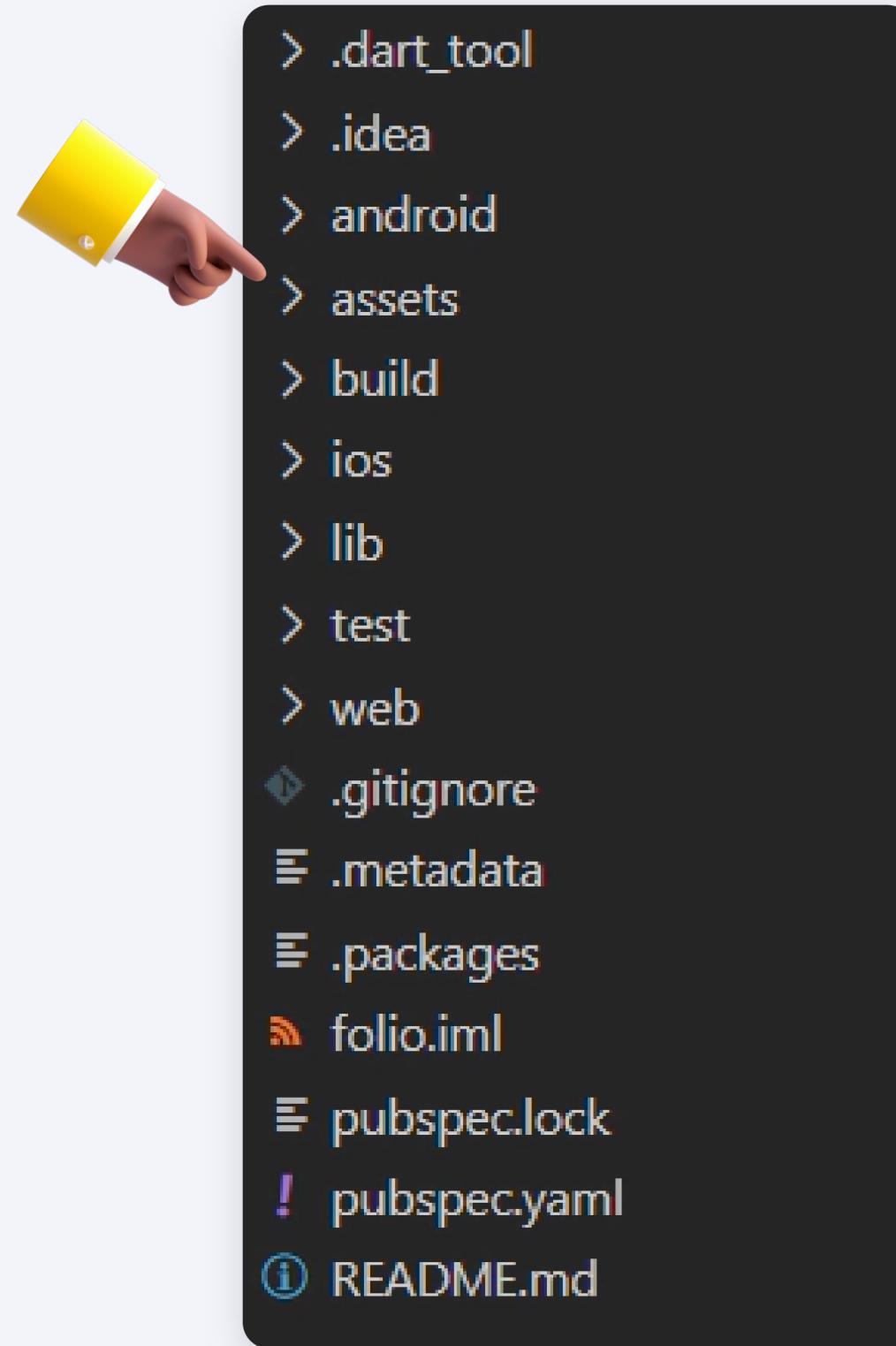
Folder structure

```
▽ FOLIO
    > .dart_tool
    > .idea
    > android
    > build
    > ios
    > lib
    > test
    > web
    ♦ .gitignore
    └ .metadata
    └ .packages
    └ folio.iml
    └ pubspec.lock
    ! pubspec.yaml
    ① README.md
```

Add project assets

Download the **assets** folder and add it to the root directory of the project

<https://drive.google.com/drive/folders/1yzy1N23RmQ77dLkOH6OppRSGjaCiediC>



Configure starter assets in *pubspec.yaml*

```
flutter:  
  uses-material-design: true  
  # Add this  
  assets:  
    - assets/images/  
    - assets/badges/  
    - assets/projects/  
  fonts:  
    - family: FiraCode  
      fonts:  
        - asset: assets/fonts/FiraCode/FiraCode-Light.ttf  
        - asset: assets/fonts/FiraCode/FiraCode-Medium.ttf  
        - asset: assets/fonts/FiraCode/FiraCode-Regular.ttf  
        - asset: assets/fonts/FiraCode/FiraCode-SemiBold.ttf  
        - asset: assets/fonts/FiraCode/FiraCode-Bold.ttf
```

Add the lint package, this will help us enforce best practices

Step 1

Add the lint package to the dev_dependencies in *pubspec.yaml*

```
dev_dependencies:  
  flutter_test:  
    sdk: flutter  
  # Add this line  
  lint: ^1.0.0
```

Step 2

Create a new file in the root directory and add this line



```
> .dart_tool  
> .idea  
> android  
> build  
> ios  
> lib  
> test  
> web  
◆ .gitignore  
≡ .metadata  
≡ .packages  
! analysis_options.yaml  
¤ folio.iml  
≡ pubspec.lock  
! pubspec.yaml  
① README.md
```

Package:

<https://pub.dev/packages/lint>

```
include: package:lint/analysis_options.yaml
```

Starter code

```
import 'package:flutter/material.dart';

void main() {
  runApp(
    MaterialApp(
      home: Scaffold(),
    ),
  );
}
```

Let's make the *FiraCode* font as the default and remove the *debug banner*

```
void main() {  
  runApp(  
    MaterialApp(  
      debugShowCheckedModeBanner: false,  
      theme: ThemeData(  
        fontFamily: 'FiraCode',  
      ),  
      home: Scaffold(),  
    ),  
  );  
}
```

Let's break *MaterialApp* into its own widget

```
void main() {  
    runApp(Folio());  
}  
  
class Folio extends StatelessWidget {  
    @override  
    Widget build(BuildContext context) {  
        return MaterialApp(  
            debugShowCheckedModeBanner: false,  
            theme: ThemeData(  
                fontFamily: 'FiraCode',  
            ),  
            home: Scaffold(),  
        );  
    }  
}
```

Let's create a *HomeScreen* widget and replace the *Scaffold*

```
class Folio extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      debugShowCheckedModeBanner: false,  
      theme: ThemeData(  
        fontFamily: 'FiraCode',  
      ),  
      home: HomeScreen(),  
    );  
  }  
}  
  
class HomeScreen extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold();  
  }  
}
```

AppBar



Mohamed Ibrahim

Header



Hello World, I'm Mohamed 🌟
A software engineer passionate about building
web and mobile applications

CALENDAR LinkedIn GITHUB INSTAGRAM FACEBOOK TWITTER

Badges



TS Typescript React React native Flutter Dart Polymer Java
Swift Python Ruby Graphql Mongo Firebase Google cloud

Projects



Projects

Pokedex
Pokemon explorer built with Flutter
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CryptoSpace
Cryptocurrency Tracker
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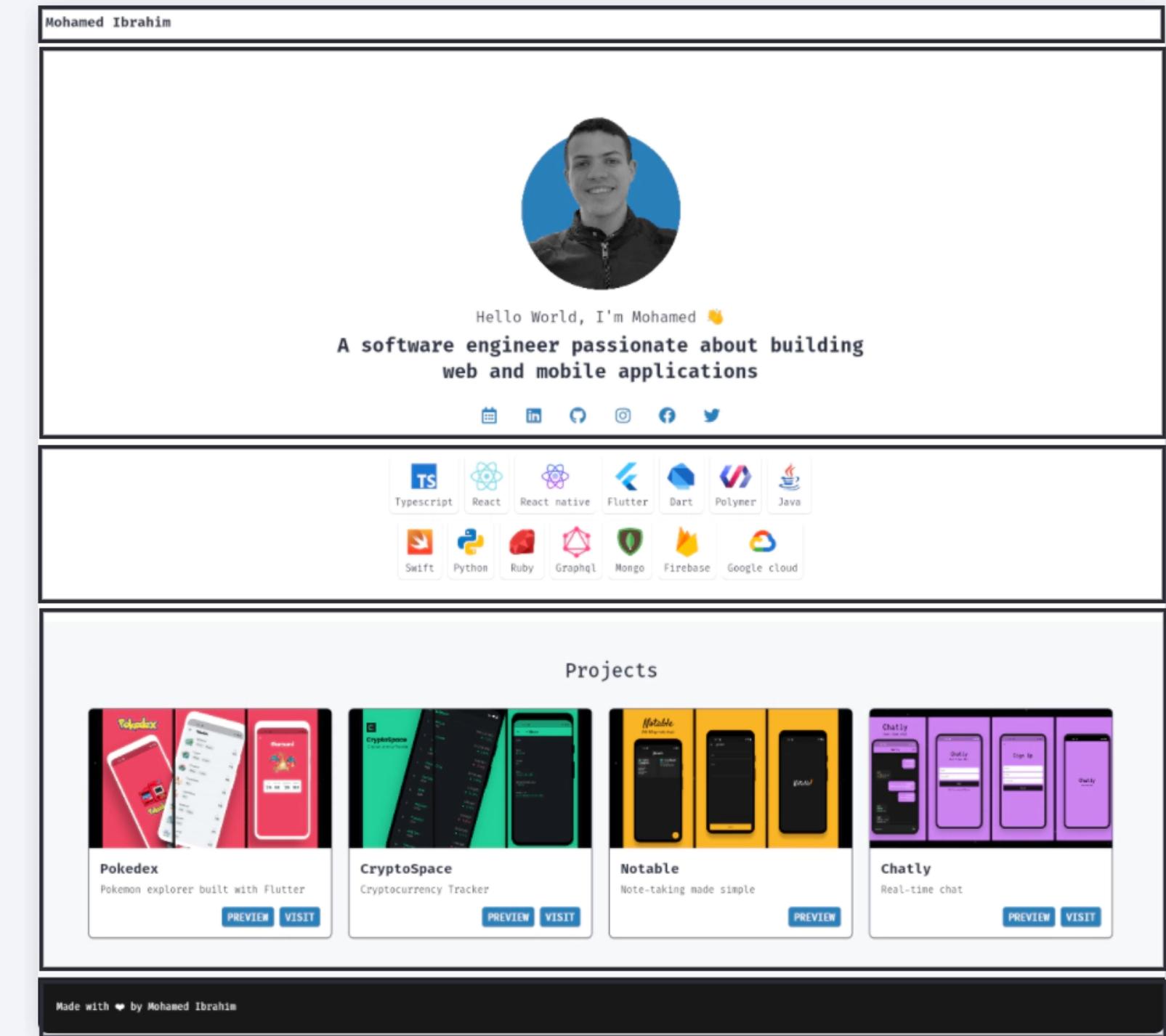
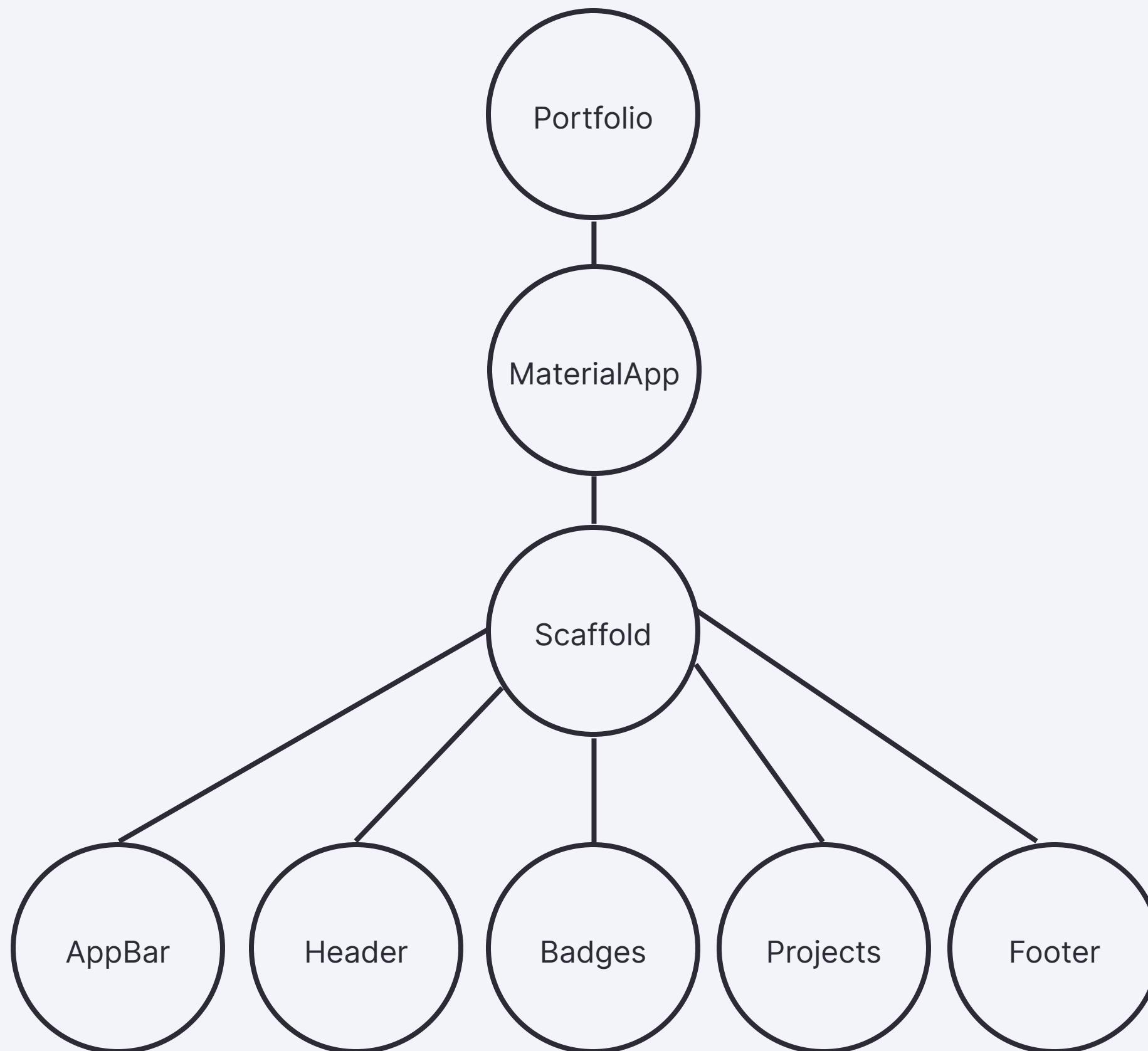
Notable
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Footer



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AppBar

```
// Constants
const kDarkGrey = Color(0xFF262D40);

Scaffold(
    appBar: AppBar(
        title: const Text(
            '<Your Name>',
            style: TextStyle(
                color: kDarkGrey,
                fontWeight: FontWeight.bold,
            ),
        ),
        centerTitle: false,
        elevation: 0,
        backgroundColor: Colors.white,
    ),
    backgroundColor: Colors.white,
),
```

Built in data types

- **Numbers** (int, double)
- **Strings** (String)
- **Booleans** (bool)
- **Lists** (List, also known as *arrays*)
- **Sets** (Set)
- **Maps** (Map)
- The value null (Null)
- ...

Let's create a constants file and add the colors we want to use in our app

```
const kBlueColor = Color(0xFF2980B9);
const kDarkGrey = Color(0xFF262D40);
const kLightGrey = Color(0xFFF7F8FA);
const kBlackColor = Color(0xFF181818);
```

Variables in dart

```
const immutableNums = [1, 2, 3, 4];
immutableNums.add(1); // Error: Cannot add to an unmodifiable list
final nums = [2, 3, 45, 5];
nums.add(1); // [2, 3, 45, 5, 1]
```

Let's create an external method for each widget

```
Scaffold(  
    ...  
    body: SafeArea(  
        child: SingleChildScrollView(  
            child: Column(  
                children: [  
                    _renderHeader(),  
                    const SizedBox(height: 24.0),  
                    _renderLinks(),  
                    const SizedBox(height: 32.0),  
                    _renderBadges(),  
                    const SizedBox(height: 56),  
                    _renderProjects(),  
                    _renderFooter(),  
                ],  
            ),  
        ),  
    ),  
);
```

```
Widget _renderHeader() {
    return SizedBox.shrink();
}

Widget _renderLinks() {
    return SizedBox.shrink();
}

Widget _renderBadges() {
    return SizedBox.shrink();
}

Widget _renderProjects() {
    return SizedBox.shrink();
}

Widget _renderFooter() {
    return SizedBox.shrink();
}
```

```
Widget _renderHeader() {
  return Column(children: [
    const CircleAvatar(
      backgroundImage: AssetImage("assets/images/profile-pic.png"),
      radius: 100,
    ),
    const SizedBox(height: 24.0),
    const Text(
      "Hello World, I'm Mohamed 🙌",
      style: TextStyle(
        ...
      ),
    ),
    const SizedBox(height: 8.0),
    const Text(
      "A software engineer passionate about building web and mobile applications",
      style: TextStyle(
        ...
      ),
      textAlign: TextAlign.center,
    ),
  ]);
}
```



Add padding and create constants for text styles

```
Padding(  
    padding: const EdgeInsets.all(16.0),  
    ...  
);
```

```
const kGreetingStyle = TextStyle(  
    color: kDarkGrey,  
    fontSize: kIsWeb ? 22.0 : 16.0,  
    fontWeight: FontWeight.w400,  
);  
  
const kHeadlineStyle = TextStyle(  
    color: kDarkGrey,  
    fontWeight: FontWeight.bold,  
    fontSize: kIsWeb ? 28.0 : 22,  
);
```

Stretch the column using a SizedBox widget with width double.infinity

```
Padding(  
    padding: const EdgeInsets.all(16.0),  
    child: Column(  
        children: const [  
            SizedBox(  
                width: double.infinity,  
            ),  
            ....
```

Add *font_awesome_flutter* and
url_launcher

```
dependencies:  
  flutter:  
    sdk: flutter  
  font_awesome_flutter: ^9.0.0  
  url_launcher: ^6.0.4
```

Give your app the necessary permissions in *AndroidManifest.xml* (*android*)

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
    package="com.example.folio">  
    <queries>  
        <intent>  
            <action android:name="android.intent.action.VIEW" />  
            <data android:scheme="https" />  
        </intent>  
        <intent>  
            <action android:name="android.intent.action.DIAL" />  
            <data android:scheme="tel" />  
        </intent>  
        <intent>  
            <action android:name="android.intent.action.SEND" />  
            <data android:mimeType="*/*" />  
        </intent>  
    </queries>  
    ...
```

Give your app the necessary permissions in *Info.plist* (iOS)

```
<key>LSApplicationQueriesSchemes</key>
<array>
<string>https</string>
<string>http</string>
</array>
```

https://pub.dev/packages/url_launcher

```
Widget _renderLinks() {  
    return Wrap(  
        children: [  
            IconButton(  
                onPressed: () {},  
                icon: const FaIcon(  
                    FontAwesomeIcons.linkedin,  
                    color: kBlueColor,  
                ),  
                ),  
            ],  
        );  
}
```



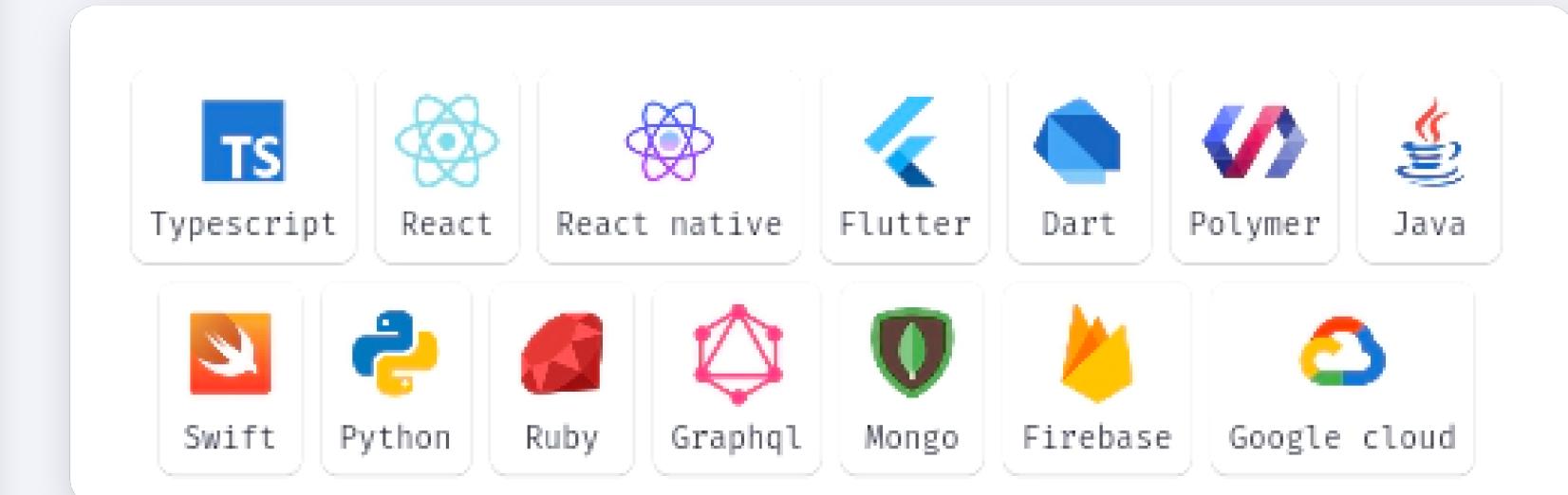
Viewing urls from your app

```
IconButton(  
    onPressed: () async {  
        const url = "https://www.yourwebsite.com";  
        final isLaunchable = await canLaunch(url);  
        if (isLaunchable) {  
            launch(url);  
        }  
    },  
    icon: const FaIcon(  
        FontAwesomeIcons.linkedin,  
        color: kBlueColor,  
    ),  
,
```

Extract logic into a separate function

```
Future<void> openUrl(String url) async {
    final launchable = await canLaunch(url);
    if (launchable) {
        await launch(url);
    }
}
```

```
Widget _renderBadges() {
  const technologies = ["flutter", "dart"];
  return Wrap(
    children: technologies
      .map(
        (tech) => Card(
          child: Padding(
            padding: const EdgeInsets.all(8.0),
            child: Column(
              children: [
                Image.asset(
                  "assets/badges/$tech.png",
                  width: 48,
                ),
                Text(tech),
              ],
            ),
          ),
        ),
      )
      .toList(),
);
}
```

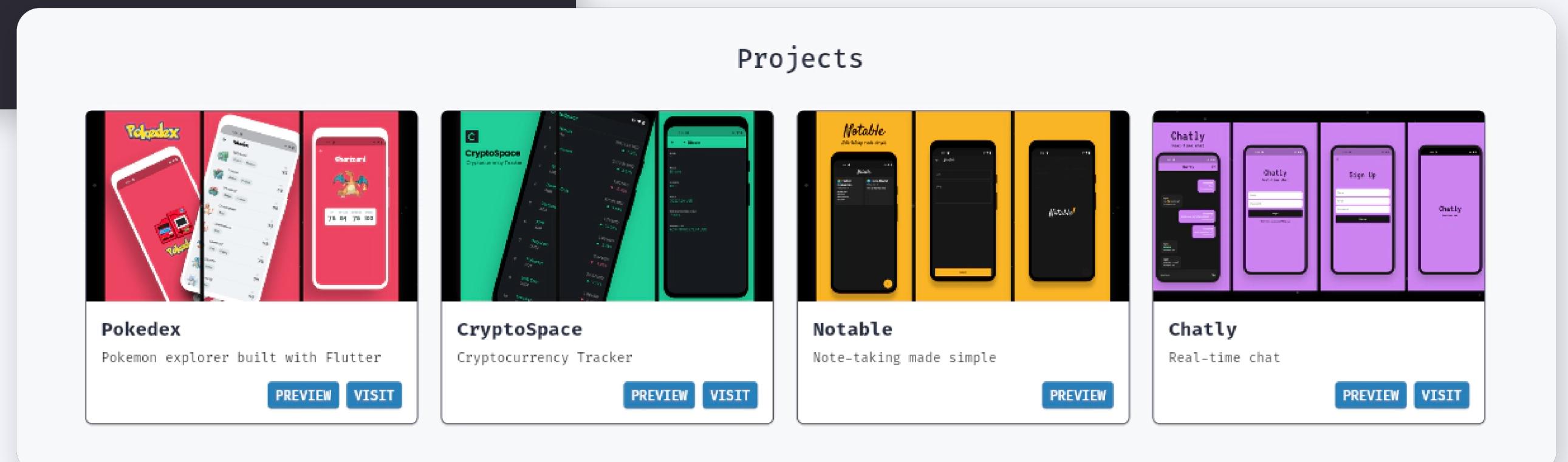


Projects section

```
Widget _renderProjects() {  
    return Container(  
        color: kLightGrey,  
        width: double.infinity,  
        padding: const EdgeInsets.symmetric(vertical: 52.0),  
        child: Column(  
            children: [  
                const Text(  
                    'Projects',  
                    style: kSectionTitleStyle,  
                ),  
            ],  
        ),  
    );  
}
```

constants.dart

```
const kSectionTitleStyle = TextStyle(  
    color: kDarkGrey,  
    fontWeight: FontWeight.w500,  
    fontSize: kIsWeb ? 28.0 : 22,  
>);
```



Projects section

```
const SizedBox(height: 32.0),  
Wrap(  
  alignment: WrapAlignment.spaceEvenly,  
  runSpacing: 16,  
  spacing: 16,  
  children: [  
    _renderProjectCard(  
      imageUrl: "assets/projects/pokedex.png",  
      title: 'Pokedex',  
      description: 'Pokemon explorer built with Flutter',  
      visitLink: "https://pokedexweb.surge.sh",  
    ),  
  ],  
,
```

```
Widget _renderProjectCard({  
  required String imageUrl,  
  required String title,  
  required String description,  
  required String visitLink,  
) {  
  return const SizedBox.shrink();  
}
```

Projects



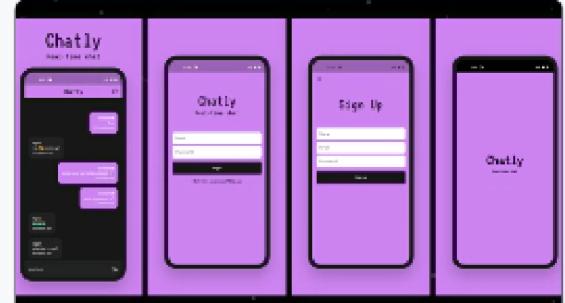
Pokedex
Pokemon explorer built with Flutter
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CryptoSpace
Cryptocurrency Tracker
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Notable
Note-taking made simple
[PREVIEW](#)

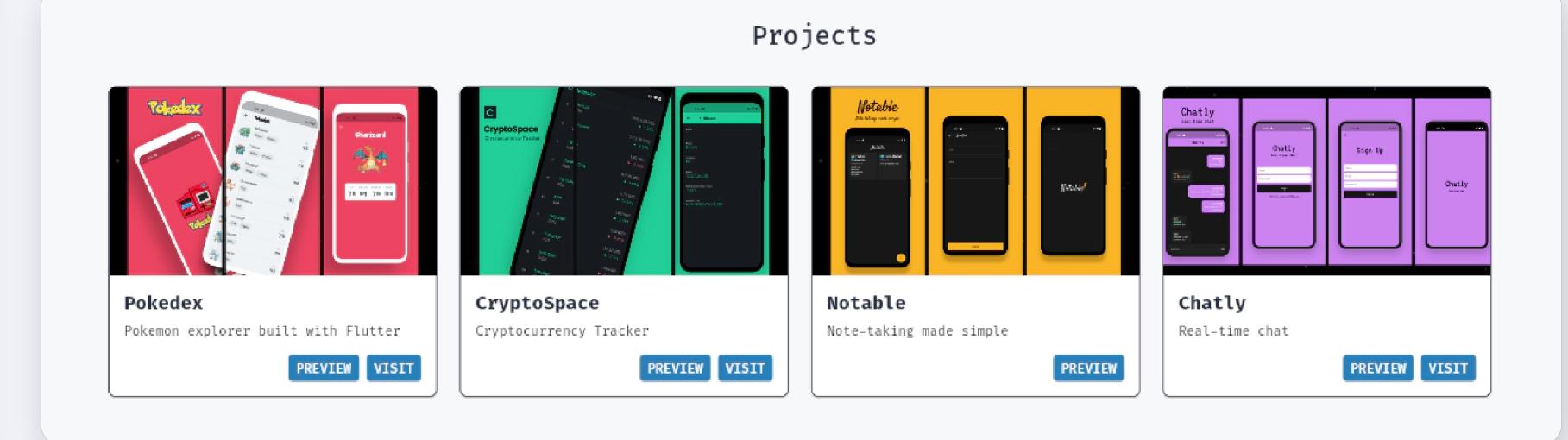


Chatly
Real-time chat
[PREVIEW](#) [VISIT](#)

```
Widget _renderProjectCard({  
    required String imageUrl,  
    required String title,  
    required String description,  
    String? visitLink,  
) {  
    return Card(  
        child: Column(  
            crossAxisAlignment: CrossAxisAlignment.start,  
            children: [  
                Image.asset(  
                    imageUrl,  
                    fit: BoxFit.cover,  
                    height: 200,  
                    width: 350,  
                ),  
                Text(  
                    title,  
                    style: kProjectCardTitleStyle,  
                ),  
                const SizedBox(  
                    height: 8.0,  
                ),  
                Text(  
                    description,  
                    overflow: TextOverflow.ellipsis,  
                    maxLines: 2,  
                ),  
            ],  
        ),  
    );  
}
```

constants.dart

```
const kProjectCardTitleStyle = TextStyle(  
    color: kDarkGrey,  
    fontWeight: FontWeight.w800,  
    fontSize: kIsWeb ? 20.0 : 16,  
>);
```



Add Card Properties and give padding to text

```
Card(  
    shape: RoundedRectangleBorder(  
        borderRadius: BorderRadius.circular(8.0),  
        side: const BorderSide(  
            color: kDarkGrey,  
        ),  
    ),  
    elevation: 2,  
    clipBehavior: Clip.antiAliasWithSaveLayer,  
    ...  
)
```

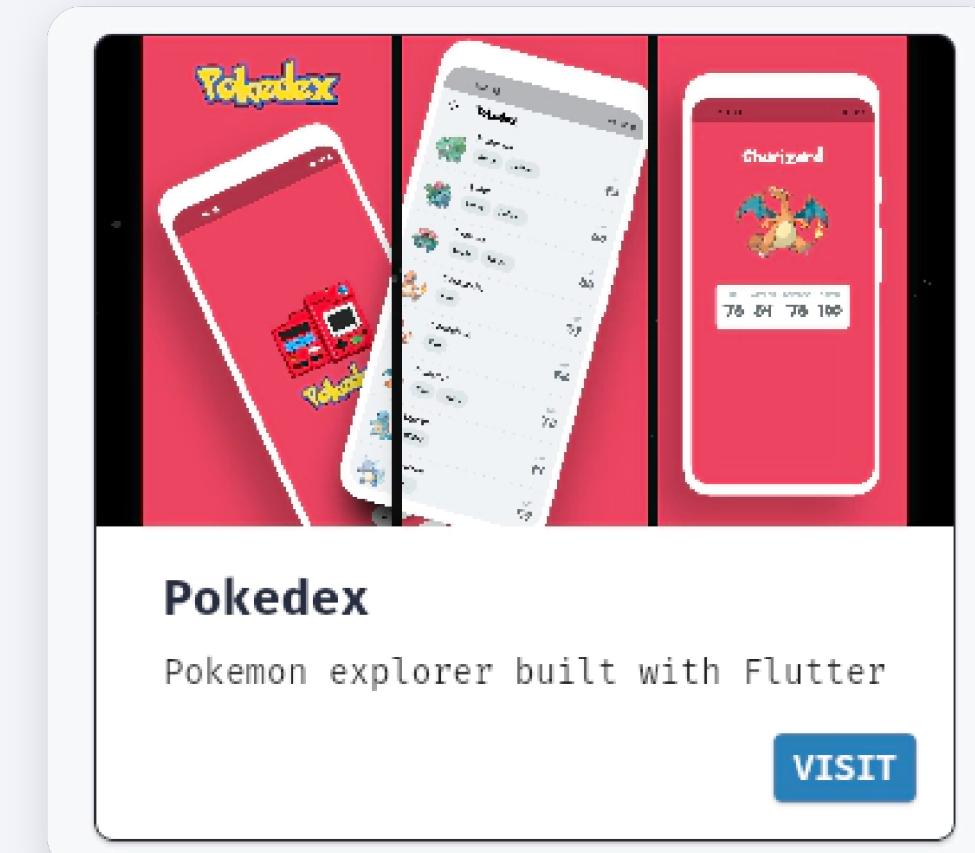
```
Padding(  
    padding: const EdgeInsets.all(16.0),  
    child: Column(  
        crossAxisAlignment: CrossAxisAlignment.start,  
        children: [  
            Text(  
                title,  
                style: kProjectCardTitleStyle,  
            ),  
            const SizedBox(  
                height: 8.0,  
            ),  
            Text(  
                description,  
                overflow: TextOverflow.ellipsis,  
                maxLines: 2,  
            ),  
        ],  
    ),  
)
```

Wrap project column in SizedBox to give it a fixed width

```
SizedBox(  
    width: 350,  
    ...  
)
```

Add link to project card (optional)

```
if (visitLink != null)
  Padding(
    padding: const EdgeInsets.only(right: 16.0, bottom: 16.0),
    child: Row(
      mainAxisAlignment: MainAxisAlignment.end,
      children: [
        ElevatedButton(
          onPressed: () async {
            final launchable = await canLaunch(visitLink);
            if (launchable) {
              await launch(visitLink);
            }
          },
          style: ButtonStyle(
            backgroundColor: MaterialStateProperty.all(
              kBlueColor,
            ),
            child: const Text(
              'VISIT',
            ),
          ),
        ],
      ),
    ),
  ),
),
```



Add remaining projects

```
_renderProjectCard(  
  imageUrl: "assets/projects/cryptospace.png",  
  title: 'CryptoSpace',  
  description: 'Cryptocurrency Tracker',  
  visitLink: "https://cryptospace.surge.sh",  
,  
_renderProjectCard(  
  imageUrl: "assets/projects/notable.png",  
  title: 'Notable',  
  description: 'Note-taking made simple',  
,  
_renderProjectCard(  
  imageUrl: "assets/projects/chatly.png",  
  title: 'Chatly',  
  description: 'Real-time chat',  
  visitLink: "https://chatly.surge.sh/",  
,
```

```
Widget _renderFooter() {  
    return Container(  
        color: kBlackColor,  
        padding: const EdgeInsets.all(32.0),  
        child: Row(  
            children: const [  
                Flexible(  
                    child: Text(  
                        'Made with ❤ by Mohamed Ibrahim',  
                        style: TextStyle(  
                            color: Colors.white,  
                            ),  
                        ),  
                        ),  
                        ],  
                    ),  
                );  
}
```

Made with ❤ by Mohamed Ibrahim

Deploy app



\$surge

1. Sign in
2. Type domain and submit

