DÉPARTEMENT MATHÉMATIQUES ET INFORMATIQUE

Compte rendu :

TP1 FLutter

Filière :
« Ingénierie Informatique : Big Data et Cloud Computing »

II-BDCC2

Élaboré par :

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Département Mathématiques et Informatique

« Ingénierie Informatique : Big Data et Cloud
Computing » II-BDCC2

La page Home:
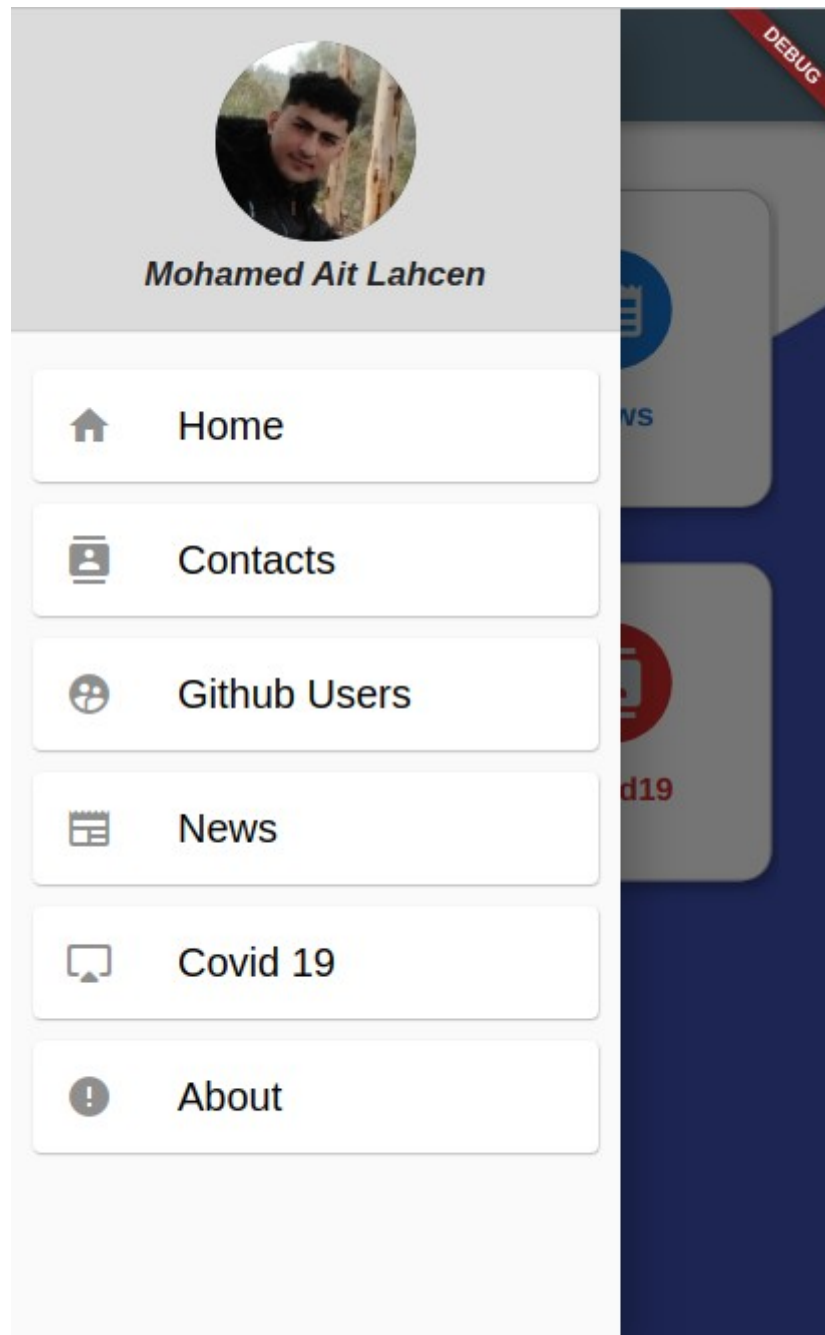
➢ AppDrawer :

```dart
class AppDrawer extends StatefulWidget {
  @override
  State<AppDrawer> createState() => _AppDrawerState();
}

class _AppDrawerState extends State<AppDrawer> {
  @override
  Widget build(BuildContext context) {
    return Drawer(
      child: ListView(
        children: [
          DrawerHeader(
            decoration: BoxDecoration(
              color: Colors.black12
            ), // BoxDecoration
            child: Column(
              children: [
                CircleAvatar(
                  backgroundImage: AssetImage("images/med.jpg"),
                  radius: 50,
                ), // CircleAvatar
                SizedBox(height: 7,),
                Text("Mohamed Ait Lahcen",style:TextStyle(fontSize: 17,fontStyle: FontStyle.italic,fontWeight: FontWeight.bold),),
              ],
            )), // Column, DrawerHeader
          Padding(padding: EdgeInsets.all(7),child: Column(children: [
```

```
        ),  // CircleAvatar
        SizedBox(height: 7,),
        Text("Mohamed Ait Lahcen",style:TextStyle(fontSize: 17,fontStyle: FontStyle.italic,fontWeight: FontWeight.bold),),),
      ],
    )),  // Column, DrawerHeader
    Padding(padding: EdgeInsets.all(7),child: Column(children: [
      DrawerItem("Home","/",Icon(Icons.home)),
      SizedBox(height: 3),
      DrawerItem("Contacts","/contacts",Icon(Icons.contacts)),
      SizedBox(height: 3),
      DrawerItem("Github Users","/github_users",Icon(Icons.supervised_user_circle)),
      SizedBox(height: 3),
      DrawerItem("News","/news",Icon(Icons.newspaper)),
      SizedBox(height: 3),
      DrawerItem("Covid 19","/covidNews",Icon(Icons.airplay_rounded)),
      SizedBox(height: 3),
      DrawerItem("About","/about",Icon(Icons.error)),

    ],),)  // Column, Padding

  ],
  ),  // ListView
); // Drawer
}
}
```

DrawerItem :

```
class DrawerItem extends StatelessWidget{
  String route;
  String title;
  //BorderRadius bd=BorderRadius.all(Radius.circular(10));
  Icon icon;
  DrawerItem(this.title,this.route,this.icon);
  @override
  Widget build(BuildContext context) {
  return Card(child:
      ListTile(
        focusColor: Colors.white70,
        //shape: RoundedRectangleBorder(side: BorderSide(color: Colors.black12),borderRadius: bd),
        onTap: (){
          Navigator.pushNamed(context, route);
        },
        leading: icon,
        title: Text(
          title,
          style: TextStyle(fontSize: 20, color: Colors.black),
        ),  // Text
      )  // ListTile
  ); // Card
  }

}
```

➢ **Représentation graphique**

➢ **Home :**

Voici une partie du code de la page home :

```dart
class Home extends StatelessWidget{
  BorderRadius br=BorderRadius.circular(15);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      drawer: AppDrawer(),
      appBar: AppBar(
        title: Row(
          children: [
            SizedBox(width: 60,),
            Icon(Icons.home,size: 30),
            SizedBox(width: 10,),
            Text("Home",style: TextStyle(fontWeight: FontWeight.bold),textAlign: TextAlign.center),
          ],
        ) // Row
      ), // AppBar
      body: new Stack(
        children: [
          new Container(
            decoration: new BoxDecoration(
              image: new DecorationImage(image: NetworkImage("https://i.stack.imgur.com/N80YNl.png"), fit: BoxFit.cover,),
            ), // BoxDecoration
          ), // Container
          Padding(
            padding: EdgeInsets.all(30),
```
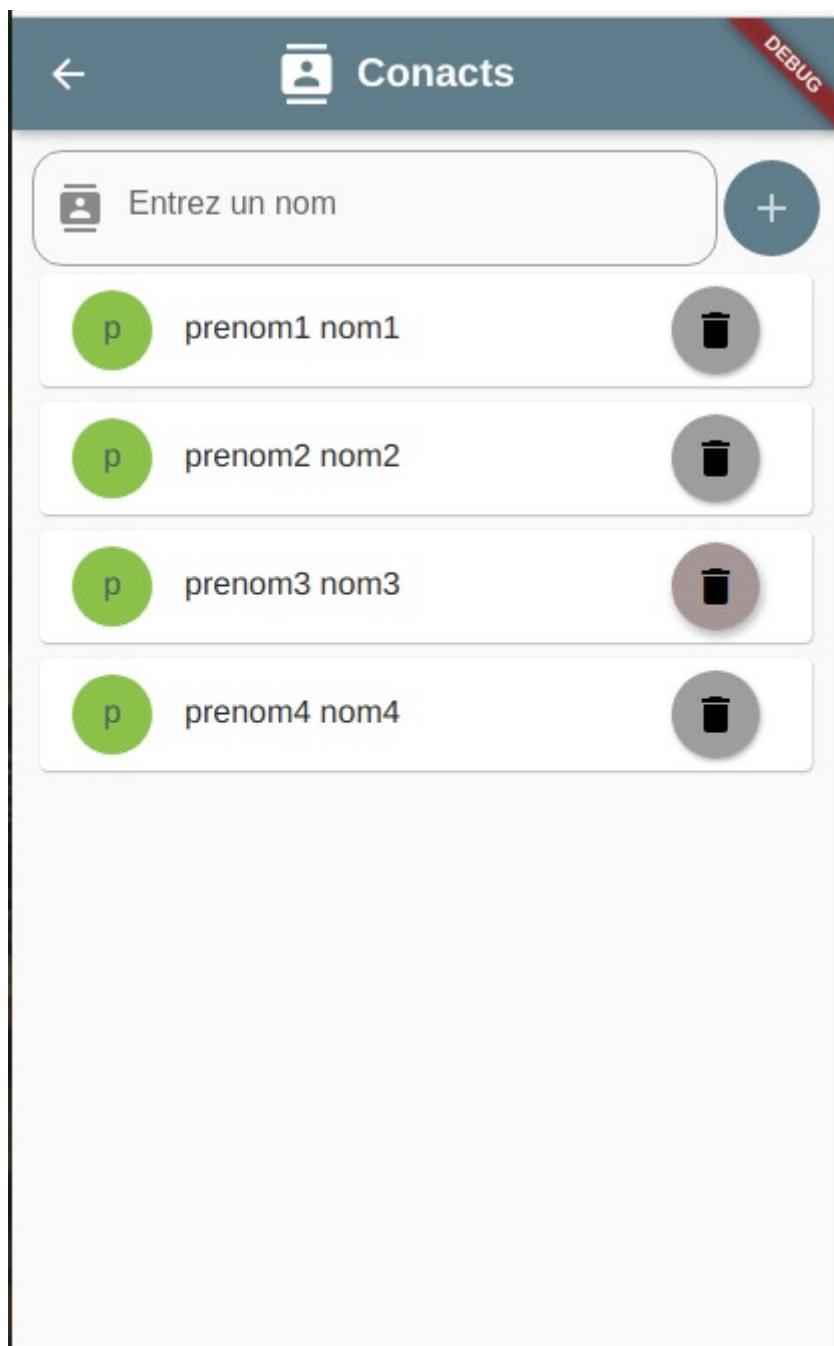
> ➤ **Représentation graphique :**
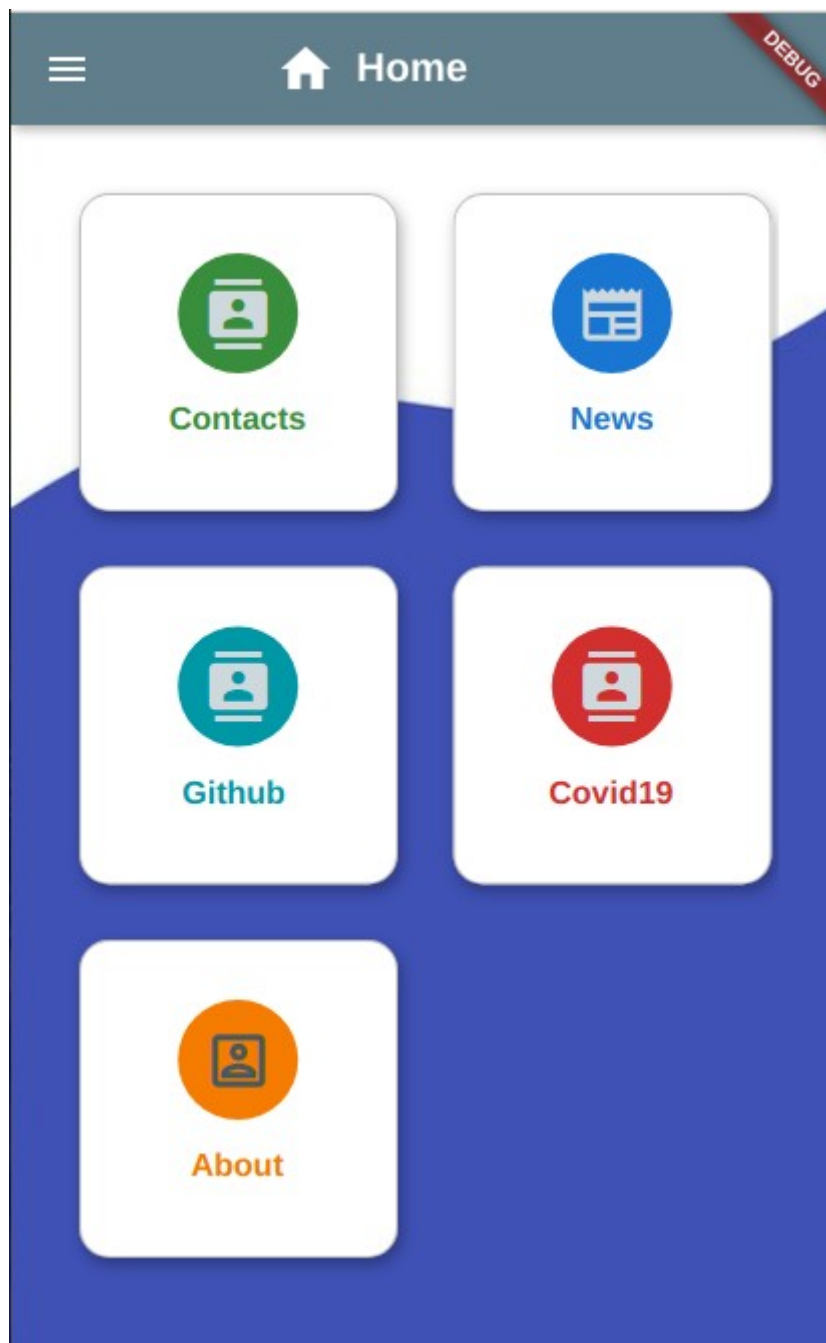
➢ **La page des contacts :**

Dans cette page on affiche les contacts et la champ pour ajouter un nouveau contact :

```dart
class Contacts extends StatefulWidget {
  @override
  State<Contacts> createState() => _ContactsState();
}

class _ContactsState extends State<Contacts> {
  TextEditingController textController = new TextEditingController();
  var borderRadius = const BorderRadius.all(Radius.circular(7));
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Row(
          children: [
            SizedBox(width: 60,),
            Icon(Icons.contacts,size: 30),
            SizedBox(width: 10,),
            Text("Conacts",style: TextStyle(fontWeight: FontWeight.bold),textAlign: TextAlign.center),
          ],
        ), // Row
      ), // AppBar
      body: Padding(
        padding: EdgeInsets.all(10),
        child: Column(
          children: [
            Row(
```

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➢ **Représentation graphique**

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La page news :

cette permet permet de chercher les nouvelles :

```dart
import 'package:http/http.dart' as http;
class ArticlesApp extends StatefulWidget{
  @override
  State<ArticlesApp> createState() => _ArticlesAppState();
}

class _ArticlesAppState extends State<ArticlesApp> {
  var news=null;
  BorderRadius bd=BorderRadius.all(Radius.circular(10));
  TextEditingController articleController=new TextEditingController();
  String keyApi="78ab7c682a2141aaa6e6791aa13d6ba1";
  void getArticles(String key){
    String url="https://newsapi.org/v2/everything?q=${key}&from=2022-04-02&sortBy=publishedAt&apiKey=${keyApi}";
    http.get(Uri.parse(url)).then((res) {
      setState(() {
        news=json.decode(res.body);
      });
    }).catchError((onError){
      print(onError);
    });
  }
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Row(
          children: [
```

➤ **Représentation graphique**
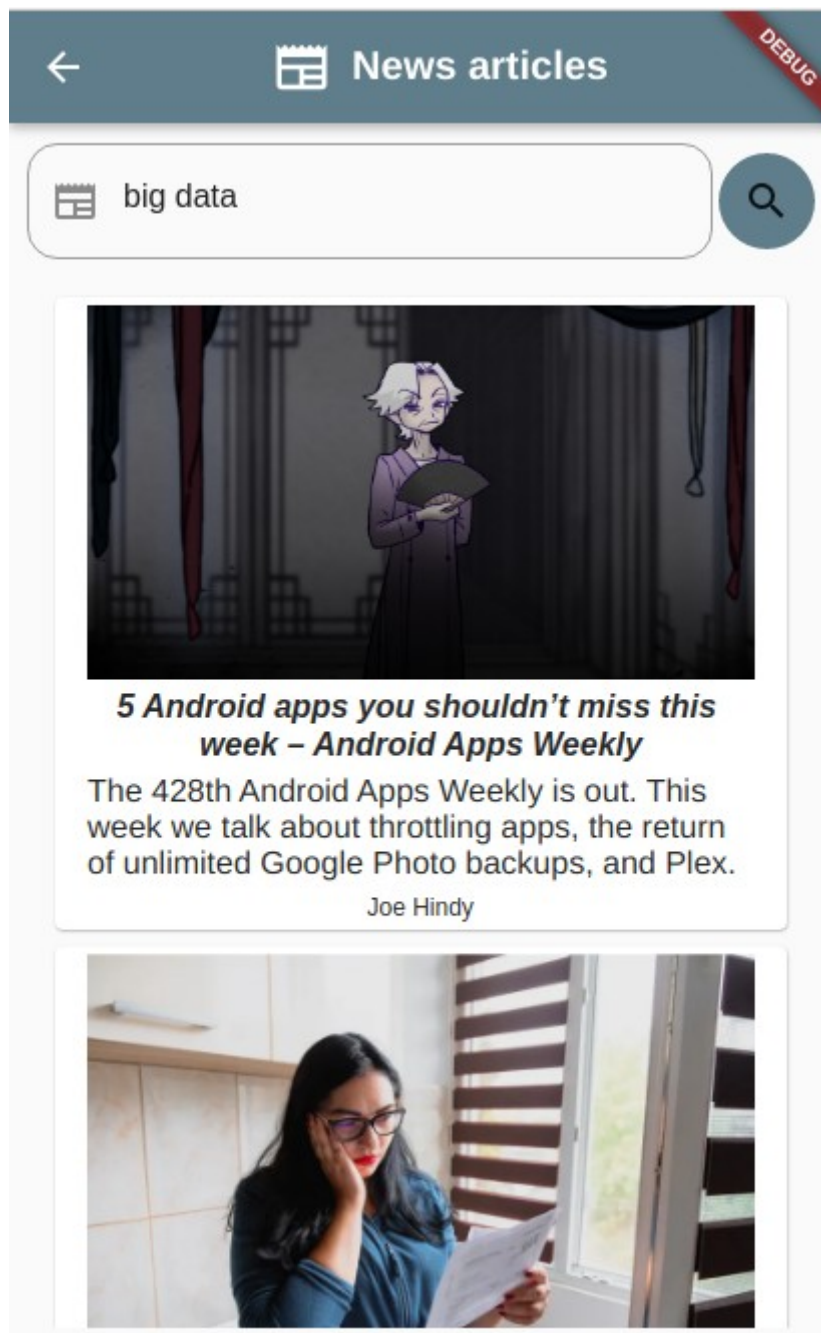
➢ **La page githubUsers :**

cette page permet de chercher dans la liste des utilisateurs qui sont inscris dans github :

```dart
class GitHubUsers extends StatefulWidget {
  @override
  State<GitHubUsers> createState() => _GitHubUsersState();
}

class _GitHubUsersState extends State<GitHubUsers> {
  var users=null;
  TextEditingController textEditingController=new TextEditingController();

  void searchGithubUser(userKey){
    String url="https://api.github.com/search/users?q=${userKey}&per_page=10&page=0";
    http.get(Uri.parse(url))
        .then((response) {
      setState(() {
        users= json.decode(response.body);
      });
    }).catchError((onError){
      print(onError);
    });
  }
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Row(
          children: [
```

➢ **Représentation graphique :**
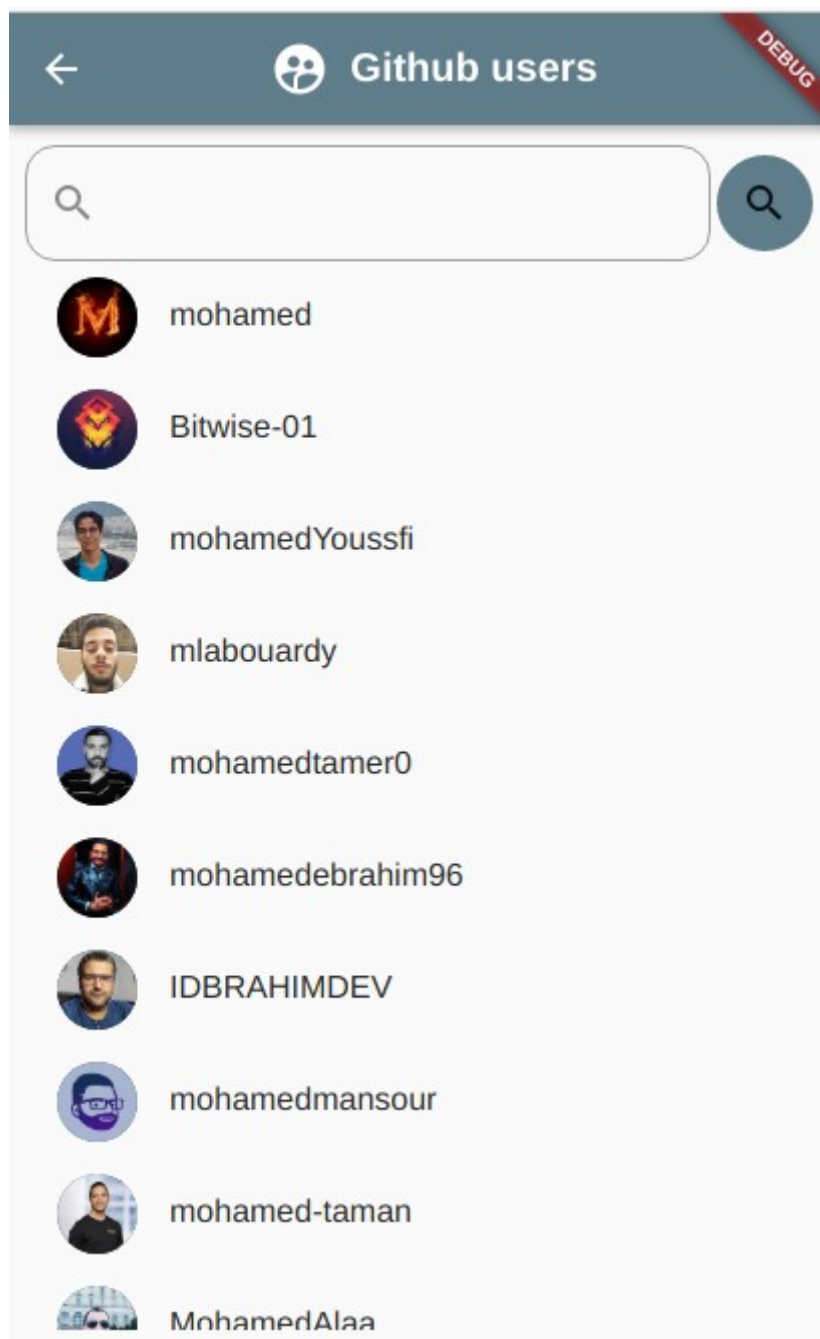
> ## La page covidStatistics :

cette page permet d'afficher les statistiques de la covid-19

dans un pays donné :

```dart
class CovidApp extends StatefulWidget{
  @override
  State<CovidApp> createState() => _covidAppState();
}
class _covidAppState extends State<CovidApp> {
  var data=null;
  TextEditingController covidController=new TextEditingController();
  //get statistiques :
  void getData(String country){
    String url="https://covid-api.mmediagroup.fr/v1/cases?country=${country}";
    http.get(Uri.parse(url)).then((res) {
      setState(() {
        data=json.decode(res.body);
      });
    }).catchError((onError){
      print(onError);
    });
  }
  //get flag of country :
  String getFlag(String country){
    String url="https://countryflagsapi.com/png/${country}";
    return url;
  }

  @override
```

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➢ **Représentation graphique :**

➢ **La page About :**

cette page contient mes informations personnelles :

```
class About extends StatelessWidget{
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Row(
          children: [
            SizedBox(width: 60,),
            Icon(Icons.account_box_outlined,size: 30),
            SizedBox(width: 10,),
            Text("About",style: TextStyle(fontWeight: FontWeight.bold),textAlign: TextAlign.center),
          ],
        ) // Row
      ), // AppBar
      backgroundColor: Colors.black12,
      body: Padding(
        padding: EdgeInsets.fromLTRB(35, 40, 35, 0),
        child: Center(
          child: Column(
            children: [
              CircleAvatar(
                backgroundColor: Colors.green[700],
                maxRadius: 60,
                backgroundImage: AssetImage("images/med.jpg"),
              ), // CircleAvatar
```

➢ **Représentation graphique :**