Flutter Mentoring Udacoding

Week 3



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Silabus Materi Week 3

Listview & Gridview

Membuat List
Membuat List Vertical
Membuat List Horizontal
Membuat Custom Gridview
Membuat detail
Custom List View
Search pada listview

Menu

Membuat Navigation Menu Membuat Bottom Menu Membuat Dropdown Menu

Date Picker & Time Picker

Membuat aplikasi time picker Membuat aplikasi date picker

Konsep Client Server dengan Flutter, Webservice dengan Php dan Database Mysql

Json

Pengenalan Konsep Json Jenis-jenis Json

Membuat Aplikasi Berita Client Server

Membuat database Membuat Webservice dengan PHP Test api menggunakan Postman Membuat Aplikasi Berita Flutter

Login Register dengan Api dan Shared Preferences

Membuat database Membuat Api Membuat Splash Screen Menggunakan Sharedpreferences Membuat Aplikasi login register flutter

Task

Membuat Aplikasi Galeri Photo sederhana Membuat aplikasi Kamus Sederhana Membuat Aplikasi Form Register Mahasiswa Sederhana

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BAB 8: List View

Kali ini kita akan membuat project yang menampilkan daftar list, pertama buat dulu strukturnya seperti berikut :



halaman-halaman tersebut nanti kita buka melalui tombol-tombol di halaman main.dart :



8.1. Simple List

edit page_basic_list.dart:

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

class PageBasicList extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
      return Scaffold(
        appBar: AppBar(
        title: Text('Page Basic List'),
        backgroundColor: Colors.red,
      ),
```

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```
body: ListView(
      children: <Widget>[
        Padding(
          padding: EdgeInsets.all(8.0),
          child: ListTile(
            leading: Icon(Icons.access_alarm),
            title: Text('Alarm'),
          ),
        ),
        ListTile(
          leading: Icon(Icons.phone),
          title: Text('Phone'),
        ),
        ListTile(
          leading: Icon(Icons.camera),
          title: Text('Camera'),
        ),
        ListTile(
          leading: Icon(Icons.message),
          title: Text('Message'),
        ),
      ],
    ),
  );
}
```

8.2. Horizontal List

pada list_horizontal.dart kita isikan seperti berikut :

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

class ListHorizontal extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
      return Scaffold(
        appBar: AppBar(
        title: Text('List Horizontal'),
        backgroundColor: Colors.amberAccent,
```

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```
),
body: Container(
  //margin : jarak antar widget
 // padding : jarak di dalam objek
  margin: EdgeInsets.symmetric(vertical: 20.0),
  height: 200.0,
  child: ListView(
    // vertical kebawah
    scrollDirection: Axis.horizontal,
    children: <Widget>[
      Container(
        width: 160.0,
        height: 200.0,
        color: Colors.red,
      ),
      Container(
        width: 160.0,
        height: 200.0,
        color: Colors.blue,
      ),
      Container(
        width: 160.0,
        height: 200.0,
        color: Colors.yellow,
      ),
      Container(
        width: 160.0,
        height: 200.0,
        color: Colors.orange,
      ),
      Container(
        width: 160.0,
        height: 200.0,
        color: Colors.green,
      )
    ],
  ),
```



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```
),
);
}
```

8.3. Simple Grid

untuk simple grid kita isikan seperti berikut:

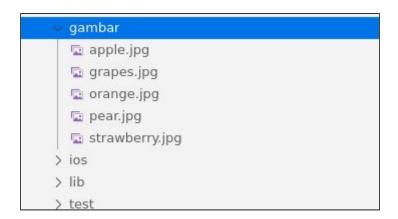
```
import 'package:flutter/material.dart';
class SimpleGridView extends StatelessWidget {
  @override
 Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Simple Grid Veiw'),
        backgroundColor: Colors.amber,
      ),
      body: GridView.count(
        crossAxisCount: 3,
        children: List.generate(12, (index) {
          int nIndex = index + 1;
          String dataIndex = "$nIndex";
          return Center (
            child: Container(
              margin: EdgeInsets.all(10),
              color: Colors.amber,
              height: 100.0,
              width: 100.0,
              child: Text(
                'Data Ke - $dataIndex', style:
Theme.of(context).textTheme.headline,
              ),
          );
        }),
      ),
   );
  }
}
```

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8.4. Custom Grid List

Sebelum itu kita tambahkan dulu gambar-gambarnya, dan daftarkan di pubspec.yaml:



lalu untuk custom grid list kita isikan seperti berikut :

```
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:flutterweek3/screen/DetailCustumGridview.dart';
class PageCustomGridview extends StatefulWidget {
@override
_PageCustomGridviewState createState() => _PageCustomGridviewState();
}
class _PageCustomGridviewState extends State<PageCustomGridview> {
//deklarasi data list
List<Container> daftarMakananPadang = new List();
var itemMakanan = [
 {"nama" : "Gulai Banak", "gambar" : "gulai-banak.jpg", "Keterangan" : "Ini Makanan Gulai
Banak"},
 {"nama": "Kalio Daging", "gambar": "kalio-dagiang.jpg", "Keterangan": "Ini Makanan Kalio
Dagiang"},
 {"nama" : "Kalio Jariang", "gambar" : "kalio-jariang.jpg", "Keterangan" : "Ini Makanan Kalio
Jariang"},
 {"nama" : "Lompong Sagu", "gambar" : "lompong-sagu.jpg", "Keterangan" : "Ini Makanan
Lompong Sagu"},
 {"nama" : "Sala Lauk", "gambar" : "sala-lauak.jpg", "Keterangan" : "Ini Makanan Sala Lauk"},
 {"nama": "Soto Padang", "gambar": "soto-padang.jpg", "Keterangan": "Ini Makanan Soto
Padang"},
];
```

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```
//method
_buatDataListMakanan() async{
 for(var i=0; i<itemMakanan.length; i++){</pre>
  final dataMakanan = itemMakanan[i]; //variable untuk data makanan
  final String gambarMakanan = dataMakanan["gambar"];
  daftarMakananPadang.add(new Container(
   padding: EdgeInsets.all(10),
   child: Card(
    child: InkWell(
     onTap: (){
      //pindah ke detail
      Navigator.push(context, MaterialPageRoute(builder: (context)=>
PageDetailCustomGridview(
        nama: dataMakanan["nama"],
        gambar: gambarMakanan,
        keterangan: dataMakanan["Keterangan"],
      )));
     },
     child: Column(
      children: [
        Hero(
         tag: dataMakanan["nama"],
         child: Image.asset('gambar/$gambarMakanan', height: 85.0, width: 125, fit:
BoxFit.contain,),
       ),
        Padding(
         padding: EdgeInsets.all(10),
        ).
        Text(dataMakanan['nama'], style: TextStyle(fontSize: 14.0, fontWeight:
FontWeight.bold, color: Colors.deepOrange),)
//proses background
@override
void initState() {
```

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```
// TODO: implement initState
super.initState();
_buatDataListMakanan();
}

//menampilkan ke view
@override
Widget build(BuildContext context) {
    return Scaffold(
    appBar: AppBar(
        title: Text('Apps Makanan Padang'),
        backgroundColor: Colors.deepOrange,
    ),

body: GridView.count(crossAxisCount: 2, children: daftarMakananPadang,),
    );
}
}
```

Lalu kita tambahkan halaman detailnya:

```
import 'package:flutter/material.dart';
class PageDetailCustomGridview extends StatefulWidget {
String nama, gambar, keterangan;
PageDetailCustomGridview({this.nama, this.gambar, this.keterangan});
@override
PageDetailCustomGridviewState createState() =>
     PageDetailCustomGridviewState();
class _PageDetailCustomGridviewState extends State<PageDetailCustomGridview>
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text('${widget.nama}'),
      backgroundColor: Colors.deepOrange,
    ),
    body: ListView(
      children: [
```

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```
Container(
           height: 240.0,
           child: Hero(
             tag: widget.nama,
             child: Material(
               child: InkWell(
                 child: Image.asset(
                    'gambar/${widget.gambar}',
                   fit: BoxFit.contain,
                 ),
               ),
             ),
           ),
         ),
         BagianNama(
           nama: widget.nama,
         ),
         BagianKeterangan(
           keterangan: widget.keterangan,
         )
       ],
     ),
  );
}
}
class BagianNama extends StatelessWidget {
BagianNama({this.nama});
String nama;
@override
Widget build(BuildContext context) {
   return Container(
     padding: EdgeInsets.all(10),
     child: Row(
       children: [
         Expanded(
           child: Column(
             crossAxisAlignment: CrossAxisAlignment.start,
             children: [
               Text(
                 nama,
                 style: TextStyle(fontSize: 20, color: Colors.brown),
               ),
               Text(
```

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```
'$nama\@gmail.com',
                 style: TextStyle(
                     fontSize: 17.0,
                     color: Colors.green,
                     fontWeight: FontWeight.bold),
               )
             ],
           ),
         ),
         Row(
           children: [
             Icon(
               Icons.star,
               size: 40.0,
               color: Colors.deepOrange,
             ),
             Text(
               "14",
               style: TextStyle(fontSize: 18.0),
             )
           ],
       ],
     ),
  );
}
}
class BagianKeterangan extends StatelessWidget {
String keterangan;
BagianKeterangan({this.keterangan});
@override
Widget build(BuildContext context) {
  return Container(
     padding: EdgeInsets.all(10),
     child: Card(
       child: Padding(
         padding: EdgeInsets.all(6),
         child: Text(
           '$keterangan', style: TextStyle(fontSize: 14.0) ,textAlign:
TextAlign.justify,
         ),
       ),
     ),
```

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```
);
}
}
```

8.5. Halaman Main

pada halaman main kita buat tombol-tombol untuk membuat keempat list tersebut:

```
import 'package:day3 night/ui view/simpe grid view.dart';
import 'package:flutter/material.dart';
import 'ui view/page basic list.dart';
import 'ui view/list horizontal.dart';
import 'ui_view/custom_grid_view.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
 // This widget is the root of your application.
 @override
 Widget build(BuildContext context) {
    return MaterialApp(
     title: 'Flutter Demo',
     theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
     home: PageHome(),
    );
 }
}
class PageHome extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
   return Scaffold(
      appBar: AppBar(
        title: Text('List View'),
        backgroundColor: Colors.red,
      ),
     body: Center(
        child: Column(
          children: <Widget>[
```

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```
Container(
  child: MaterialButton(
    onPressed: () {
      Navigator.push(context, MaterialPageRoute(
        builder: (context) => PageBasicList()
      ));
    },
    color: Colors.red,
   textColor: Colors.white,
   child: Text('Simple List'),
 ),
),
Container(
  child: MaterialButton(
    onPressed: () {
      Navigator.push(context, MaterialPageRoute(
        builder: (context) => ListHorizontal()
      ));
    },
   color: Colors.red,
   textColor: Colors.white,
   child: Text('Horizontal List'),
 ),
),
Container(
 child: MaterialButton(
    onPressed: () {
      Navigator.push(context, MaterialPageRoute(
        builder: (context) => SimpleGridView()
      ));
    },
   color: Colors.red,
   textColor: Colors.white,
   child: Text('Simple Grid'),
 ),
),
Container(
 child: MaterialButton(
    onPressed: () {
      Navigator.push(context, MaterialPageRoute(
        builder: (context) => CustomGridView()
      ));
    },
```

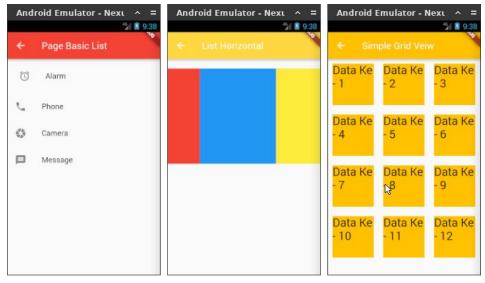


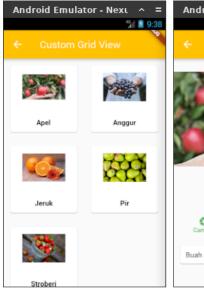
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```
color: Colors.red,
    textColor: Colors.white,
    child: Text('Custom Grid'),
    ),
    ),
    ),
    ),
}
```

Dan hasilnya seperti berikut:





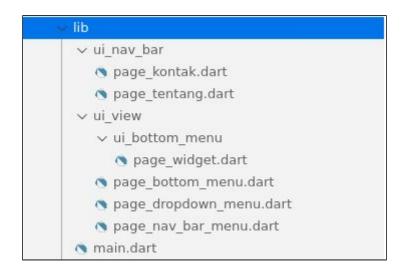




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BAB 9: Navigation Menu

Untuk navigation menu kita buat struktur file seperti berikut:



9.1. Navigation Drawer

pada page_nav_bar_menu.dart kita isikan seperti berikut :

```
import 'package:flutter/material.dart';
class PageNavBarMenu extends StatefulWidget {
 @override
  _PageNavBarMenuState createState() => _PageNavBarMenuState();
class _PageNavBarMenuState extends State<PageNavBarMenu> {
 @override
 Widget build(BuildContext context) {
   return Scaffold(
      appBar: AppBar(
        title: Text('Page Nav Bar'),
        backgroundColor: Colors.brown,
      ),
      drawer: Drawer(
        child: ListView(children: <Widget>[
          ListTile(
            title: Text('Welcome'),
```

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```
),
          Divider(),
          ListTile(
            title: Text('Tentang'),
            trailing: Icon(Icons.info),
            onTap: () {
              Navigator.of(context).pop();
              Navigator.of(context).pushNamed('/tentang');
            },
          ),
          ListTile(
            title: Text('Kontak'),
            trailing: Icon(Icons.phone),
            onTap: () {
              Navigator.of(context).pop();
              Navigator.of(context).pushNamed('/kontak');
            },
          ),
        ],),
      ),
      body: Center(
        child: Text('Home Page',
          style: TextStyle(fontWeight: FontWeight.bold, fontSize:
30.0))),
    );
  }
```

Akan ada dua halaman untuk kontak dan tentang, untuk halaman tentang kita isikan seperti berikut :

page_tentang.dart

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

class PageTentang extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
      return Scaffold(
        appBar: AppBar(
        title: Text('Tentang'),
        backgroundColor: Colors.brown,
```

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```
body: Center(
    child: Text('Page Halaman Tentang', style: TextStyle(
        fontSize: 30.0
    ),),
    ),
    );
}
```

page_kontak.dart:

```
import 'package:flutter/material.dart';
class PageKontak extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
   return Scaffold(
      appBar: AppBar(
        title: Text('Kontak'),
        backgroundColor: Colors.brown,
      ),
      body: Center(
        child: Text('Page Halaman Kontak', style: TextStyle(
          fontSize: 30.0
        ),),
      ),
    );
 }
```

9.2. Bottom Bar Menu

Selanjutnya kita buat halaman yang berisi Bottom bar, edit file page_bottom_menu.dart, lalu isikan seperti berikut :

```
import 'package:flutter/material.dart';
import 'ui_bottom_menu/page_widget.dart';
class PageHomeBottomMenu extends StatefulWidget {
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```
@override
  _PageHomeBottomMenuState createState() => _PageHomeBottomMenuState();
}
class _PageHomeBottomMenuState extends State<PageHomeBottomMenu> {
 int currentIndex = 0;
 final List<Widget> _listColorMenu = [
   PageWidget(Colors.blue),
   PageWidget(Colors.deepOrange),
   PageWidget(Colors.green)
 ];
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Page Bottom Bar'),
        backgroundColor: Colors.brown,
      ),
      body: _listColorMenu[currentIndex],
      bottomNavigationBar: BottomNavigationBar(
        onTap: onTabTapped,
        currentIndex: currentIndex,
        items: [
          BottomNavigationBarItem(
            icon: Icon(Icons.home),
            title: Text('Home')
          ),
          BottomNavigationBarItem(
            icon: Icon(Icons.message),
            title: Text('Message')
          ),
          BottomNavigationBarItem(
            icon: Icon(Icons.person),
            title: Text('Person')
          )
        ],
      ),
```

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```
);
}

void onTabTapped(int index) {
  setState(() {
    currentIndex = index;
  });
}
```

lalu pada page_widget.dart ini kita menampilkan halaman berwarna, isikan seperti berikut :

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

class PageWidget extends StatelessWidget {
    final Color color;

    PageWidget(this.color);

    @override
    Widget build(BuildContext context) {
       return Container(
            color: color,
            );
    }
}
```

9.3. Dropdown Menu

pada page_dropdown_menu.dart, kita isikan seperti berikut :

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

class PageDropDownMenu extends StatefulWidget {
    @override
    _PageDropDownMenuState createState() => _PageDropDownMenuState();
}

class _PageDropDownMenuState extends State<PageDropDownMenu> {
    List<String> listKota = ["DKI Jakarta", "Tangerang", "Bekasi",
    "Bogor", "Bandung"];
```

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```
String nKota = "DKI Jakarta";
  int nilaiKota;
  void pilihKota (String value) {
    setState(() {
      nKota = value;
    });
  }
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Page Drop Down Menu'),
        backgroundColor: Colors.brown,
      ),
      body: Form(
        child: ListView(
          children: <Widget>[
            Container(
              padding: EdgeInsets.only(left: 16.0),
              child: Row(
                children: <Widget>[
                  Text('Lokasi ', style: TextStyle(fontSize: 18.0,
color: Colors.brown),),
                  DropdownButton(
                    onChanged: (String value) {
                      pilihKota(value);
                      nilaiKota = listKota.indexOf(value);
                    },
                    value: nKota,
                    items: listKota.map(
                      (String value) {
                      return DropdownMenuItem(
                        child: Text(value),
                        value: value
                      );
                    }).toList(),
                  )
                ],
              ),
```

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```
),
            Container(
              child: MaterialButton(
                child: Text('Submit'),
                color: Colors.brown,
                textColor: Colors.white,
                onPressed: () {
                   print("Kota yang dipilih: "+" $nilaiKota "+ nKota);
                },
              ),
            )
          ],
        ),
      ),
    );
 }
}
```

9.4 Halaman Main

Pada halaman main kita isikan seperti berikut:

```
import 'package:flutter/material.dart';
import 'ui view/page bottom menu.dart';
import 'ui_view/page_nav_bar_menu.dart';
import 'ui nav bar/page kontak.dart';
import 'ui nav bar/page tentang.dart';
import 'ui_view/page_dropdown_menu.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
 // This widget is the root of your application.
 @override
 Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
      home: PageHome(),
```

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```
// deklarasi file yang akan dipanggil
      routes: <String, WidgetBuilder>{
        '/home' : (BuildContext context) => PageNavBarMenu(),
        '/tentang' : (BuildContext context) => PageTentang(),
        '/kontak' : (BuildContext context) => PageKontak()
      },
      debugShowCheckedModeBanner: false,
    );
 }
}
class PageHome extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Page Home'),
        backgroundColor: Colors.green,
      ),
      body: Center(
        child: Column(
          children: <Widget>[
            MaterialButton(
              color: Colors.brown,
              textColor: Colors.white,
              child: Text('Navigation Drawer'),
              onPressed: () {
                Navigator.push(context,
                  MaterialPageRoute(builder: (context) {
                    return PageNavBarMenu();
                  })
                );
              },
            ),
            MaterialButton(
              color: Colors.brown,
              textColor: Colors.white,
              child: Text('Bottom Bar Menu'),
              onPressed: () {
                Navigator.push(context,
```

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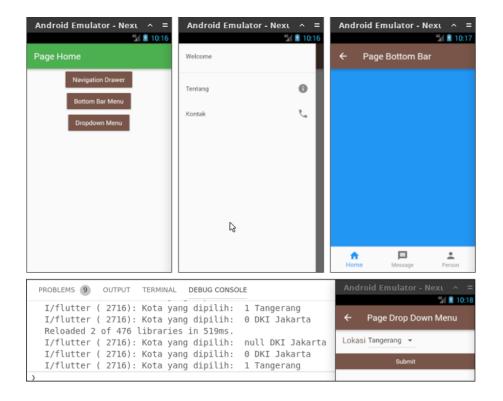
```
MaterialPageRoute(builder: (context) {
                  return PageHomeBottomMenu();
                })
              );
            },
          ),
          MaterialButton(
            color: Colors.brown,
            textColor: Colors.white,
            child: Text('Dropdown Menu'),
            onPressed: () {
              Navigator.push(context, MaterialPageRoute(
                builder: (context) {
                  return PageDropDownMenu();
                }));
            },
          ),
        ],
      ),
    ),
 );
}
```

hasilnya:



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9.5. Latihan Form

Buat lah halaman RegisterForm seperti berikut, lalu ketikkan seperti berikut:

```
import 'package:flutter/material.dart';
import 'package:fluttertoast/fluttertoast.dart';
class RegisterForm extends StatefulWidget {
 @override
  RegisterFormState createState() => RegisterFormState();
}
class RegisterFormState extends State<RegisterForm> {
  List<String> _agama = ['Islam', 'Kristen', 'Budha', 'Hindhu',
'Konghucu'];
 String nAgama = "Islam";
  int _groupValue1 = 0;
 TextEditingController nama = TextEditingController();
 TextEditingController pass = TextEditingController();
 TextEditingController moto = TextEditingController();
 @override
 Widget build(BuildContext context) {
```

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```
return Scaffold(
      appBar: AppBar(
       title: Text("Register Form"),
      ),
      body: Padding(
        padding: EdgeInsets.all(16.0),
        child: Form(
          child: Column(
            children: <Widget>[
              TextFormField(
                controller: nama,
                decoration: InputDecoration(
                  hintText: 'Nama Lengkap',
                  border: OutlineInputBorder(borderRadius:
BorderRadius.circular(8.0))
                ),
              ),
              TextFormField(
                controller: pass,
                obscureText: true,
                decoration: InputDecoration(
                  hintText: 'Password',
                  border: OutlineInputBorder(borderRadius:
BorderRadius.circular(8.0))
                ),
              ),
              TextFormField(
                controller: moto,
                minLines: 3,
                maxLines: 10,
                decoration: InputDecoration(
                  hintText: 'Moto Hidup',
                  border: OutlineInputBorder(borderRadius:
BorderRadius.circular(8.0))
                ),
              ),
              Row(children: <Widget>[
                Radio(
                  onChanged: (int i) {
```

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```
setState(() {
                      _groupValue1 = i;
                    });
                  },
                  value: 0,
                  groupValue: _groupValue1,),
                Text('Lak-laki'),
                Radio(
                  onChanged: (int i) {
                    setState(() {
                      _groupValue1 = i;
                    });
                  },
                  value: 1,
                  groupValue: _groupValue1,),
                Text('Perempuan'),
              Text("Agama : ", style : TextStyle(color: Colors.brown,
fontSize: 16.0)),
              DropdownButtonFormField(
                onChanged: (String value) {
                  setState(() {
                    _nAgama = value;
                  });
                },
                value: _nAgama,
                items: _agama.map((String value) {
                  return DropdownMenuItem(child: Text(value), value:
value,);
                }).toList(),
              ),
              MaterialButton(
                color: Colors.red,
                textColor: Colors.white,
                child: Text("Submit"),
                onPressed: () {
                  Fluttertoast.showToast(
                    msg: "Nama Lengkap : "+nama.text.toString()+"\n"+
                         "Password : "+pass.text.toString()+"\n"+
                         "Moto hidup : "+moto.text.toString()+"\n"+
                         "Jenis Kelamin :" +((_groupValue1 == 0) ? "Laki"
  "Wanita")+"\n"+
```

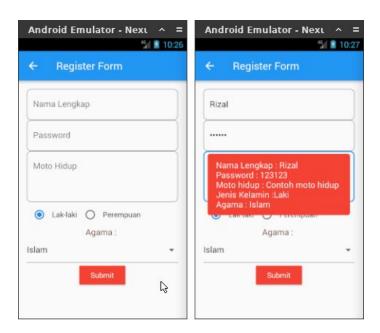


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```
"Agama : "+_nAgama,
                     toastLength: Toast.LENGTH_SHORT,
                     gravity: ToastGravity.CENTER,
                     timeInSecForIos: 1,
                     backgroundColor: Colors.red,
                     textColor: Colors.white,
                     fontSize: 16.0
                  );
                },
               )
            ],
          ),
        )
      ),
    );
 }
}
```

hasilnya:



BAB 10: Number Picker

Untuk membuat number picker kita perlu dependency https://pub.dev/packages/numberpicker, install seperti biasa, jika sudah kita ketikkan kode berikut :

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```
import 'package:flutter/material.dart';
import 'dart:async';
import 'package:numberpicker/numberpicker.dart';
class PageNumberPicker extends StatefulWidget {
 @override
  _PageNumberPickerState createState() => _PageNumberPickerState();
}
class PageNumberPickerState extends State<PageNumberPicker> {
 int currentIntValue = 10;
 double currentDoubleValue = 3.0;
 NumberPicker intNumberPicker, decNumberPicker;
 // method untuk menghandle value ketika berubah
 handleValueChanged(num value) {
   if (value != null) {
     if (value is int) {
        setState(() {
          currentIntValue = value;
        });
      } else {
        setState(() {
          currentDoubleValue = value;
        });
     }
    }
  }
 // method untuk menghandle value ketika berubah dari luar
 handleValueChangedExternally(num value) {
   if (value != null) {
     if (value is int) {
        setState(() {
          currentIntValue = value;
          intNumberPicker.animateInt(value);
        });
      } else {
        setState(() {
          currentDoubleValue = value;
          decNumberPicker.animateDecimal(currentDoubleValue.toInt());
```

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```
});
      }
   }
  }
 @override
 Widget build(BuildContext context) {
    intNumberPicker = new NumberPicker.integer(
        initialValue: currentIntValue,
        minValue: ∅,
        maxValue: 100,
        step: 10,
        onChanged: handleValueChanged);
    decNumberPicker = new NumberPicker.decimal(
        initialValue: currentDoubleValue,
        minValue: 1,
        maxValue: 5,
        decimalPlaces: 2, // mengatur 2 angka di belakang koma
        onChanged: handleValueChanged);
    return Scaffold(
        appBar: AppBar(
          title: Text('Page Number Picker'),
          backgroundColor: Colors.brown,
        ),
        body: Center(
          child: Column(
            mainAxisAlignment: MainAxisAlignment.spaceAround,
            children: <Widget>[
              intNumberPicker,
              RaisedButton(
                child: Text('Current int value : $currentIntValue'),
                color: Colors.green,
                onPressed: () {
                  showDialogInteger();
                },
              ),
              decNumberPicker,
              RaisedButton(
                child: Text('Current Decimal Value :
$currentDoubleValue'),
                onPressed: () {
```

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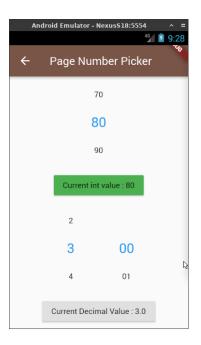
```
showDialogDouble();
              },
          ],
        ),
      ));
}
// saat menekan tombol Current int value
Future showDialogInteger() async {
  await showDialog<int>(
      context: context,
      builder: (BuildContext context) {
        return NumberPickerDialog.integer(
          minValue: ∅,
          maxValue: 100,
          initialIntegerValue: currentIntValue,
        );
      }).then(handleValueChangedExternally);
}
// saat menekan tombol Current dec value
Future showDialogDouble() async {
  await showDialog<double>(
      context: context,
      builder: (BuildContext context) {
        return NumberPickerDialog.decimal(
          minValue: 1,
          maxValue: 5,
          initialDoubleValue: currentDoubleValue,
          decimalPlaces: 2,
          title: Text("Silahkan pilih bilangan desimal"),
        );
      });
}
```

Penjelasan:

- handleValueChanged(num value), yaitu fungsi yang dijalankan saat kita menggeser nilai angkanya
- 2. handleValueChangedExternally(num value), yaitu fungsi yang dijalankan saat kita menggeser nilai dari dialog yang muncul

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- 3. showDialogInteger() = menampilkan dialog numberpicker integer
- 4. showDialogDouble() = menampilkan dialog numberpicker decimal

hasilnya:



BAB 11: Membuat Search

Untuk membuat halaman search kita ketikkan kode berikut:

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

class SearchListPage extends StatefulWidget {
    @override
    _SearchListPageState createState() => _SearchListPageState();
}

class _SearchListPageState extends State<SearchListPage> {
    var etSearce = new TextEditingController();

    bool isSearch = true;

    String query = "";

    List<String> dataList;
    List<String> filterList;
```

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```
@override
 void initState() {
   // TODO: implement initState
   super.initState();
   dataList = new List<String>();
   dataList = ["Snake", "Elephant", "cats", "dog", "orion",
"boomerang",
        "pelican", "ghost", "eagle", "horse head", "elephant trunk",
"butterfly"];
   dataList.sort();
 }
 _SearchListPageState() {
   etSearce.addListener((){
      if (etSearce.text.isEmpty) {
        setState(() {
          isSearch = false;
         query = "";
        });
      } else {
        setState(() {
          isSearch = true;
          query = etSearce.text;
        });
      }
    });
 }
 @override
 Widget build(BuildContext context) {
   return Scaffold(
      appBar: AppBar(
        title: Text('Page Search Listview'),
        backgroundColor: Colors.brown,
      ),
      body: Container(
        margin: EdgeInsets.all(10.0),
        child: Column(
          children: <Widget>[
```

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```
_createSearchView(),
          isSearch ? _performSearch() : _createSearchView(),
        ],
      ),
    ),
  );
}
// membuat form search
Widget createSearchView () {
  return Container(
    decoration: BoxDecoration(
      border: Border.all(width: 1.0)
    ),
    child: TextField(
      controller: etSearce,
      decoration: InputDecoration(
        hintText: "Search",
        hintStyle: TextStyle(color: Colors.green)
      ),
      textAlign: TextAlign.center,
    ),
  );
}
// membuat form
 Widget createListView() {
   return Flexible(child: ListView.builder(
     itemCount: dataList.length,
    itemBuilder: (BuildContext context, int index){
      return Card(
        child: Container(margin: EdgeInsets.all(10.0)),
        color: Colors.white,
        elevation: 5.0,);
    },
  ),);
}
// Lakukan search dengan fungsi contains
Widget _performSearch() {
  filterList = new List<String>();
  for (int i = 0; i < dataList.length; i++ ) {</pre>
```

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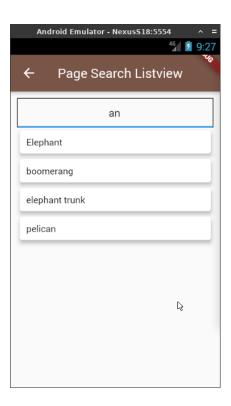
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```
var item = dataList[i];
      if (item.toLowerCase().contains(query.toLowerCase())){
        filterList.add(item);
      }
   }
   return _createFilteredListView();
 }
 // tampilkan daftar hasil pencarian
 Widget _createFilteredListView() {
   return Flexible(
      child: ListView.builder(
        itemCount: filterList.length,
        itemBuilder: (BuildContext context, int index) {
        return Card (
          color: Colors.white,
          elevation: 5.0,
          child: Container(
            margin: EdgeInsets.all(10.0),
            child: Text('${filterList[index]}'),
          ),
        );
      },),
   );
 }
}
```

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BAB 12: Menggunakan API

Pada BAB ini kita akan menggunakan API untuk mendapatkan data, ntuk mengambil data menggunakan API, kita memerlukan dependency http, pertama-tama buat project baru, lalu silahkan tambahkan pada pubspec.yaml

```
18
19 dependencies:
20 http: ^0.12.0+2
21 flutter:
22 sdk: flutter
```

lalu flutter pub get seperti biasa.

12.1. Membuat model

API yang kita gunakan kali ini adalah : https://jsonplaceholder.typicode.com/users

- 1. Buka https://jsonplaceholder.typicode.com/users
- 2. copy seluruh jsonnya dan pastikan bukan json dalam format html yang dicopy.



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```
JSON Raw Data Headers

Save Copy Pretty Print

[
{
    "id": 1,
    "name": "Leanne Graham",
    "username": "Bret",
    "email": "Sincere@april.biz",
    "address": "Apt. 556",
    "city": "Gwenborough",
    "zipcode": "92998-3874",
    "geo": {
        "lat": "-37.3159",
        "lat": "-37.3159",
        "lag": "81.1496"
        }
    },
    phone": "1-770-736-8031 x56442",
    "useriam", "Mildonard and"
```

pilih yang Raw Data dan Copy

3. Buka web https://quicktype.io/



lalu klik OPEN QUICKTYPE

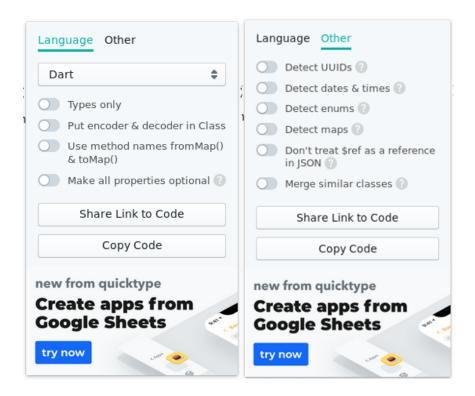
4. Paste kan dan ubah namanya menjadi Users



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5. Lalu pada sidebar kanan kita pilih yang Dart, dan atur seperti gambar berikut :



- 6. pada project buat sebuah folder bernama model didalam lib.
- 7. Buat sebuah file dart baru beri nama model_user.dart, lalu pastekan model json hasil generatenya.



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```
UNTITLED (WORKSPACE)
                       day6_night > lib > model > 🐧 model_user.dart > 😭 Address > 🤣 city
> day3_night
                              List<ModelUsers> modelUsersFromJson(String str) => List<ModelUsers>.fr
> day4_night
> day5_night
                          9 String modelUsersToJson(List<ModelUsers> data) => json.encode(List<dyn
v day6_night
 > .idea
                         11 class ModelUsers {
 > android
                         12
                                  int id:
 > build
                                  String name;
                         13
                                  String username;
 > images
                                String email;
Address address;
String phone;
String website;
Company company;
                         15
                         16
   model_user.dart
                         19
    v ui_view
                         20
     detail_list_user...
                                   ModelUsers({
                         21
     nage_list_user....
   main.dart
                         23
                                       this.name,
  > test
                                        this.username.
                                        this.email,
 .gitignore
```

Jika sudah kita buka main.dart, lalu tambahkan kode berikut :

```
import 'package:flutter/material.dart';
import 'package:http/http.dart' as http;
import 'dart:async';
import 'dart:convert';
import 'package:day6_night/model/model_user.dart';
class PageUserList extends StatefulWidget {
 @override
  _PageUserListState createState() => _PageUserListState();
}
class _PageUserListState extends State<PageUserList> {
 // membuat list dari modelnya
 List<ModelUsers> listModel = [];
 var loading = false;
 Future<Null> getData() async {
    setState(() {
      loading = true;
    });
   final responseData =
        await http.get("https://jsonplaceholder.typicode.com/users");
   if (responseData.statusCode == 200) {
     final data = jsonDecode(responseData.body);
```

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```
setState(() {
        for (Map i in data) {
          listModel.add(ModelUsers.fromJson(i));
        loading = false;
      });
   }
  }
 @override
 void initState() {
   super.initState();
   getData();
 }
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Page User List"),
      ),
      body: Container(
        child: loading
            ? Center(child: CircularProgressIndicator())
            : ListView.builder(
                itemCount: listModel.length,
                itemBuilder: (context, i) {
                  final nDataList = listModel[i];
                  return InkWell(
                    onTap: () {
                      //Navigator.push(context, MaterialPageRoute(
                      // builder: (_) => DetailListUser(nDataList)
                      //));
                    },
                    child: Container(
                      child: Card(
                        margin: EdgeInsets.all(8.0),
                        child: Padding(
                          padding: const EdgeInsets.all(16.0),
                          child: Column(
                            crossAxisAlignment:
CrossAxisAlignment.start,
```

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```
children: <Widget>[
                              Text(
                                nDataList.name,
                                style: TextStyle(
                                    fontWeight: FontWeight.bold,
                                    fontSize: 18.0,
                                    color: Colors.green),
                              ),
                              Text(nDataList.phone),
                              Text(nDataList.website),
                              Text(nDataList.company.name)
                            ],
                         ),
                       ),
                     ),
                   ),
                 );
               },
             ),
    ),
  );
}
```

selanjutnya kita buat folder ui_view, dan buat sebuah file dengan nama page_list_user.dart, dan isikan seperti berikut :

```
import 'package:flutter/material.dart';
import 'package:http/http.dart' as http;
import 'dart:async';
import 'dart:convert';
import 'package:day6_night/model/model_user.dart';

import 'detail_list_user.dart';

class PageUserList extends StatefulWidget {
    @override
    _PageUserListState createState() => _PageUserListState();
}

class _PageUserListState extends State<PageUserListState();
}</pre>
```

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```
List<ModelUsers> listModel = [];
var loading = false;
Future<Null> getData() async {
  setState(() {
    loading = true;
  });
  final responseData =
      await http.get("https://jsonplaceholder.typicode.com/users");
  if (responseData.statusCode == 200) {
    final data = jsonDecode(responseData.body);
    setState(() {
      for (Map i in data) {
        listModel.add(ModelUsers.fromJson(i));
      loading = false;
    });
  }
}
@override
void initState() {
  super.initState();
  getData();
}
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text("Page User List"),
    ),
    body: Container(
      child: loading
          ? Center(child: CircularProgressIndicator())
          : ListView.builder(
              itemCount: listModel.length,
              itemBuilder: (context, i) {
                final nDataList = listModel[i];
                return InkWell(
```

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```
onTap: () {
                      //Navigator.push(context, MaterialPageRoute(
                      // builder: (_) => DetailListUser(nDataList)
                      //));
                    },
                    child: Container(
                      child: Card(
                         margin: EdgeInsets.all(8.0),
                         child: Padding(
                           padding: const EdgeInsets.all(16.0),
                           child: Column(
                             crossAxisAlignment:
CrossAxisAlignment.start,
                             children: <Widget>[
                               Text(
                                 nDataList.name,
                                 style: TextStyle(
                                     fontWeight: FontWeight.bold,
                                     fontSize: 18.0,
                                     color: Colors.green),
                               ),
                               Text(nDataList.phone),
                               Text(nDataList.website),
                               Text(nDataList.company.name)
                             1,
                           ),
                        ),
                      ),
                    ),
                  );
                },
      ),
    );
 }
}
```

lalu buat halaman detailnya, buat dengan nama detail_list_user.dart:

```
import 'package:day6_night/model/model_user.dart';
import 'package:flutter/material.dart';
class DetailListUser extends StatelessWidget {
```

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```
final ModelUsers user;
DetailListUser(this.user);
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text(user.name),
      backgroundColor: Colors.green,
    ),
    body: Padding(
      padding: const EdgeInsets.all(40.0),
      child: Center(
        child: Column(
          children: <Widget>[
            Column(
              crossAxisAlignment: CrossAxisAlignment.center,
              children: <Widget>[
                Text(
                  user.name,
                  style: TextStyle(
                       fontWeight: FontWeight.bold,
                       fontSize: 18.0,
                       color: Colors.green),
                ),
                Text(user.email),
                Text(user.phone),
                Text(user.website),
                SizedBox(
                  height: 5.0,
                ),
                Text(
                  "Address",
                  style: TextStyle(
                       fontSize: 16.0, fontWeight: FontWeight.bold),
                ),
                Text(user.address.street),
                Text(user.address.city),
                Text(user.address.suite),
                Text(user.address.zipcode),
                SizedBox(
```



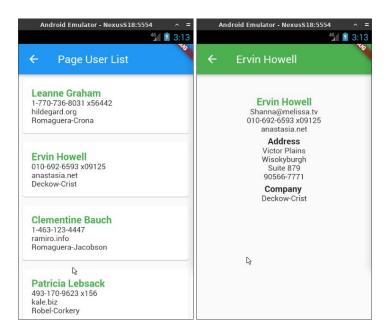
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```
height: 5.0,
                   ),
                   Text(
                     "Company ",
                     style: TextStyle(
                          fontSize: 16.0, fontWeight: FontWeight.bold),
                   Text(user.company.name)
                 ],
               ),
             ],
          ),
        ),
      ),
    );
  }
}
```

jika sudah uncomment pada onPressed di main.dart, juga onTap pada page_list_user.dart, dan import filenya :

hasilnya:



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BAB 13: Menggunakan API Sendiri dengan PHP

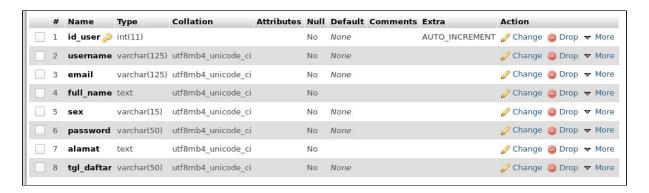
Untuk membuat webservice yang menyediakan layanan API kita memerlukan XAMPP, atau semisalnya, silahkan download dan instal melalui link berikut:

https://www.apachefriends.org/download.html

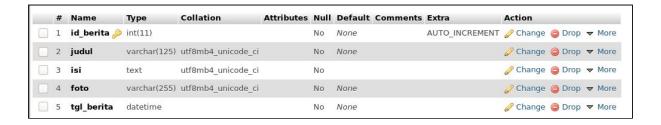
lalu start apache dan mysglnya

13.1. Membuat database

- 1. Buka http://localhost/phpmyadmin/ pilih phpmyadmin/
- 2. Buat database dengan nama db_berita
- 3. lalu buat table dengan nama tb_user, dan buat columnnya seperti ini



lalu buat juga table tb_berita, dan buat seperti berikut :



13.2. Membuat web service

Untuk membuat web service

- 1. masuk ke htdocs, lalu buat sebuah folder dan beri nama dengan flutter-server
- buat sebuah file bernama koneksi.php dan isikan seperti berikut

```
<?php
    $connect = new mysqli("localhost", "root", "", "db_berita");
```



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```
if ($connect) {
    echo "datanse konej";
} else {
    echo "database error";
}
```

3. tes di browser, buka http://localhost/flutter-server/login.php



4. jika berhasil seperti gambar diatas silahkan komentari echo di koneksi.php.

```
<?php
    $connect = new mysqli("localhost","root", "", "db_berita");

if ($connect) {
        // echo "database connected";
} else {
        // echo "database error";
}
</pre>
```

5. lalu buat file get_berita.php

```
<?php
  include "koneksi.php";

$queryResult = $connect->query("SELECT * FROM tb_berita");
  $result = array();

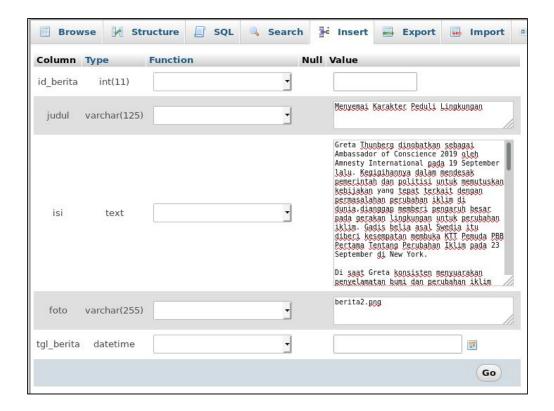
while($fetch_data = $queryResult->fetch_assoc()) {
       $result[] = $fetch_data;
   }
   echo json_encode($result);
?>
```

6. Jika sudah cobalah untuk mengisi data pada tb_berita



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Juga tambahkan gambarnya di folder server kita.



cobalah untuk menambah beberapa berita lagi:



7. Tes hasilnya, dengan cara buka url http://localhost/flutter-server/get_berita.php



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[{"id_berita":"1","judul":"Huawei Nova 5T Masuk Indonesia, Torsuper Clear","isi":"Jakarta - Setelah keluar dengan flagship P30, main di pasar mid-range dengan mengeluarkan Nova 5T dengan canggih.\r\n\r\nPonsel tersebut didesain khusus untuk para mile dewasa muda yang mobile dan generasi 'live'.\r\n\r\nHuawei No Indonesia, Tonjolkan Kamera Super ClearFoto: Josina\/detikINET\nHarapannya bisa tembus market di Indonesia karena sekarang anak muda zaman sekarang YouTube terus online, gaming, terut yang lagi dilakukan anak zaman sekarang,\" jelas Eddy Supartor Manager Huawei Indonesia saat jumpa dengan detikInet.\r\n\r\nHuawei Klaim Hasil Foto Nova 5T Jernih Meski Di-zoom\r\n\r\n\r\n\r\warna yang diluncurkan yakni Crush Green dan Midsummer Puzkhusus Midsummer Puzhkusus Midsummer Puzhkan dengan berat 174 gram dan ketipi managambarkan bagaimana magyarakat ha

Jika hasilnya seperti diatas maka berhasil.

13.3. Pembuatan Aplikasi

pada main dart kita buat tombol untuk membuka daftar beritanya:

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
      home: PageHome(),
    );
  }
class PageHome extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
```

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```
return Scaffold(
        appBar:
            AppBar(title: Text('Apps day 7'), backgroundColor:
Colors.brown),
        body: Container(
            child: Column(children: <Widget>[
          MaterialButton(
              onPressed: () {
                Navigator.push(context,
                    MaterialPageRoute(builder: (context) =>
PageHomeBerita()));
              },
              child: Text('Apps Berita'),
              color: Colors.brown,
              textColor: Colors.white)
        ])));
  }
}
```

Lalu kita coba membuat halaman daftar beritanya, buat file baru dengan nama page_home_berita.dart

```
import 'package:flutter/material.dart';
import 'package:http/http.dart' as http;
import 'dart:async';
import 'dart:convert';
class PageHomeBerita extends StatefulWidget {
 @override
  _PageHomeBeritaState createState() => _PageHomeBeritaState();
}
class _PageHomeBeritaState extends State<PageHomeBerita> {
 Future<List> getData() async {
    final response = await
http.get("http://192.168.10.153/flutter-server/get_berita.php");
    return json.decode(response.body);
  }
 @override
 Widget build(BuildContext context) {
```

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```
return Scaffold(
        appBar: AppBar(
          title: Text('Apps Berita'),
          backgroundColor: Colors.brown,
        ),
        body: FutureBuilder<List>(
          future: getData(),
          builder: (context, snapshot) {
            if (snapshot.hasError) print(snapshot.error);
            return snapshot.hasData
                ? ItemList(list: snapshot.data)
                : Center(child: CircularProgressIndicator());
          },
        ));
 }
}
class ItemList extends StatelessWidget {
 final List list;
 ItemList({this.list});
 @override
 Widget build(BuildContext context) {
    return ListView.builder(
      itemCount: list.length,
      itemBuilder: (context, index) {
        return Container(
          padding: EdgeInsets.all(10.0),
          child: GestureDetector(
            onTap: () {
              Navigator.push(context, MaterialPageRoute(builder:
(context) {
                return DetailBerita(list, index);
              }));
            },
            child: Card(
              child: ListTile(
                title: Text(
                  list[index]['judul'],
```

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```
style: TextStyle(
                      fontWeight: FontWeight.bold, color:
Colors.brown),
                ),
                subtitle: Text("Tanggal :
${list[index]['tgl_berita']}"),
                trailing: Image.network(
                   'http://192.168.10.153/flutter_day6/' +
list[index]['foto'],
                  fit: BoxFit.cover,
                  width: 60.0,
                  height: 60.0,
                ),
              ),
            ),
          ),
        );
      },
    );
  }
}
class DetailBerita extends StatelessWidget {
 List list;
 int index;
 DetailBerita(this.list, this.index);
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text(list[index]['judul']),
        backgroundColor: Colors.brown,
      ),
      body: ListView(
        children: <Widget>[
          Image.network('http://192.168.10.153/flutter_day6/' +
list[index]['foto']),
          Container(
```



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```
padding: EdgeInsets.all(32.0),
            child: Row(
              children: <Widget>[
                Expanded(
                  child: Column(
                    crossAxisAlignment: CrossAxisAlignment.start,
                    children: <Widget>[
                      Container(
                         padding : EdgeInsets.only(bottom: 8.0),
                         child: Text(list[index]['judul'],
                                 style: TextStyle(
                                     fontWeight: FontWeight.bold,
color: Colors.brown),
                               ),
                      Text(list[index]['tgl_berita'])
                    ],
                  ),
                ),
                Icon(Icons.star, color: Colors.brown,)
              ],
            ),
          ),
          Container(
            padding: EdgeInsets.all(32.0),
            child: Text(list[index]['isi'], softWrap: true,),
          )
        ],
      ),
    );
  }
```

Pada page_home_berita.dart ini kita membuat dua buah halaman

- 1. PageHomeBerita, pada halaman ini kita mengambil data melalui api yang telah kita buat, lalu menampilkannya menggunakan FutureBuilder yang bersifat asinkron, lalu menggunakan class ItemList.
- **2. DetailBerita,** pada DetailBerita kita membuat constructor yang menerima data berita dan index berita yang di tap pada halaman PageHomeBerita, lalu menampilkannya.

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BAB 14: Login Register

Pada BAB ini kita akan membuat sebuah login register sederhana menggunakan API yang akan kita buat sendiri.

pertama-tama kita buat table tb_user terlebih dahulu, buat seperti berikut :



Jika sudah sekarang kita buat APInya.

14.1. Membuat API

Untuk login silahkan buat file php baru, beri nama login.php

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```
$response['username'] = $result['username'];
    $response['nama'] = $result['full_name'];

    echo json_encode($response);
} else {
        $response['value'] = 0;
        $response['message'] = "Login gagal";
        echo json_encode($response);
}
}
```

lalu untuk register.phpnya

```
<?php
      require "koneksi.php";
      if ($ SERVER['REQUEST METHOD'] == "POST") {
      $response = array();
      $username = $ POST['username'];
      $password = md5($_POST['password']);
      $full_name = $_POST['full_name'];
      sex = POST['sex'];
      $alamat = $ POST['alamat'];
      $email = $_POST['email'];
      // Langkah 2
      $cek = "SELECT * FROM tb user WHERE username='$username'";
      $result = mysqli_fetch_array(mysqli_query($connect, $cek));
      if (isset($result)) {
            $response['value'] = 2;
            $response['message'] = "Username telah digunakan";
            echo json_encode($response);
      } else {
            $insert = "INSERT INTO tb user VALUE(NULL,
'$username','$email', '$full_name', '$sex', '$password','$alamat',
NOW())";
            if (mysqli_query($connect, $insert)) {
                  $response['value'] = 1;
                  $response['message'] = "Berhasil didaftarkan";
```



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14.2. Pembuatan Aplikasi

Pada project ini kita akan membuat splashscreen juga, langsung saja kita buat projectnya dengan nama bebas.

Jika sudah kita lanjutkan mengedit main.dart

silahkan kita bersihkan dan isikan seperti berikut:

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
// This widget is the root of your application.
@override
Widget build(BuildContext context) {
   return MaterialApp(
    title: 'Flutter Demo',
    theme: ThemeData(
       primarySwatch: Colors.blue,
     ),
    home: SplashScreen(),
     debugShowCheckedModeBanner: false,
   );
}
}
```

lalu kita tambahkan gambar animasi untuk splashscreennya



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```
▼ day8 night_new ~/1 MobileApp Project/t
▶ idea
▶ android [day8_night_new_android]
▼ images
splashscreen.gif
▶ ios
```

lalu kita tambahkan di pubspec.yaml

```
# To add assets to your application, add an assets se
assets:
- images/
# - images/a_dot_ham.jpeg
```

tambahkan juga dependensi yang akan kita pakai :

```
dependencies:
   http:
   shared_preferences: ^0.5.3+4
   flutter:
   sdk: flutter
```

14.3. SplashScreen

```
import 'dart:async';
import 'package:day8_night_new/ui_view/page_home.dart';
import 'package:flutter/material.dart';

class SplashScreen extends StatefulWidget {
  @override
  _SplashScreenState createState() => _SplashScreenState();
}

class _SplashScreenState extends State<SplashScreen> {
  @override
  void initState() {
    startTimer();
    super.initState();
}

@override
```

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```
Widget build(BuildContext context) {
   return Container (
     child: Center(
       child: Image.asset("images/splashscreen.gif"),
     ),
  );
}
Future<Timer> startTimer() async {
   return Timer(Duration(seconds: 3), onDone);
}
void onDone() {
  Navigator.of(context).pushReplacement(MaterialPageRoute(
       builder: (context) => PageLogin()
   ));
}
}
```

Pada splashscreen kita membuat timer yang mana nanti setelah 3 detik dia akan menjalankan onDone dan membuka halaman login.

14.4. Login

Selanjutnya pada halaman Login kita akan membuat formnya juga tombol untuk pindah ke halaman registrasi

buat page_login.dart dan jangan lupa untuk menggati ipnya sesuai dengan ip kamu.

```
import 'package:day8_night_new/ui_view/page_home.dart';
import 'package:day8 night new/ui view/page register.dart';
import 'package:flutter/material.dart';
import 'package:http/http.dart' as http;
import 'dart:convert';
import 'package:shared preferences/shared preferences.dart';
class PageLogin extends StatefulWidget {
@override
 _PageLoginState createState() => _PageLoginState();
// deklarasi variable
```

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```
enum statusLogin { signIn, notSignIn }
class _PageLoginState extends State<PageLogin> {
statusLogin _loginStatus = statusLogin.notSignIn;
final _keyForm = GlobalKey<FormState>();
String nUsername, nPassword;
// check ketika klik tombol login
checkForm() {
  final form = _keyForm.currentState;
  if (form.validate()) {
    form.save();
     submitDataLogin();
  }
}
// mengirim request dan menanggapinya
submitDataLogin() async {
  final responseData = await
http.post("http://192.168.10.153/flutter_day6/login.php", body: {
     "username": nUsername,
    "password": nPassword,
   });
  final data = jsonDecode(responseData.body);
  int value = data['value'];
  String pesan = data['message'];
  print(data);
  // get data respon
  String dataUsername = data['username'];
  String dataEmail = data['email'];
  String dataAlamat = data['alamat'];
  String dataSex = data['sex'];
  String dataFullname = data['full_name'];
  String dataTanggalDaftar = data['tgl_daftar'];
  String dataIdUser = data['id_user'];
  // cek value 1 atau 0
  if (value == 1) {
    setState(() {
      // set status loginnya sebagai login
       _loginStatus = statusLogin.signIn;
```

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```
// simpan data ke share preferences
       saveDataPref(value, dataIdUser, dataUsername, dataEmail,
dataAlamat,
           dataSex, dataFullname, dataTanggalDaftar);
     });
   } else if (value == 2) {
     print(pesan);
   } else {
     print(pesan);
   }
 }
// method untuk soimpan share pref
 saveDataPref(int value, String dIdUser, dUsername, dEmail, dAlamat,
dSex,
     dFullName, dCreated) async {
   SharedPreferences sharedPreferences = await
SharedPreferences.getInstance();
   setState(() {
     sharedPreferences.setInt("value", value);
     sharedPreferences.setString("username", dUsername);
     sharedPreferences.setString("id user", dIdUser);
     sharedPreferences.setString("email", dEmail);
     sharedPreferences.setString("alamat", dAlamat);
     sharedPreferences.setString("sex", dSex);
     sharedPreferences.setString("full_name", dFullName);
     sharedPreferences.setString("tgl_daftar", dCreated);
   });
 }
///
/// method ini digunakan untuk mengecek apakah user sudah login atau
belum
/// jika sudah set valuenya
///
getDataPref() async {
   SharedPreferences sharedPreferences = await
SharedPreferences.getInstance();
   setState(() {
     int nvalue = sharedPreferences.getInt("value");
     _loginStatus = nvalue == 1 ? statusLogin.signIn :
```

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```
statusLogin.notSignIn;
   });
 }
@override
 void initState() {
   getDataPref();
   super.initState();
 }
//method untuk sign out
  signOUt() async{
    SharedPreferences sharedPreferences = await
SharedPreferences.getInstance();
    setState(() {
      sharedPreferences.setInt("value", null);
      sharedPreferences.commit();
      _loginStatus = statusLogin.notSignIn;
    });
  }
 @override
Widget build(BuildContext context) {
   switch (_loginStatus) {
     case statusLogin.notSignIn:
       return Scaffold(
         backgroundColor: Colors.white,
         body: Form(
           key: _keyForm,
           child: ListView(
             children: <Widget>[
               Center(
                 child: Text(
                   'Login Form',
                   style: TextStyle(
                       fontWeight: FontWeight.bold,
                       fontSize: 26.0,
                       color: Colors.brown,),
                 ),
               ),
               SizedBox(
```

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```
height: 20.0,
),
Image.asset(
  'images/udacoding.jpg',
 height: 100.0,
 width: 100.0,
),
Padding(
  padding: EdgeInsets.all(10.0),
  child: TextFormField(
    validator: (value) {
      //cek kalau value nya kosong
      if (value.isEmpty) {
        return 'Please Input Username';
      return null;
    },
    onSaved: (value)=> nUsername = value,
    decoration: InputDecoration(
        hintText: 'Username',
        labelText: 'Input Username',
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(20.0),
        )),
  ),
),
Padding(
  padding: EdgeInsets.all(10),
  child: TextFormField(
    validator: (value) {
      if (value.isEmpty) {
        return 'Please Input Password';
      return null;
    onSaved: (value)=> nPassword = value,
    obscureText: true,
    decoration: InputDecoration(
        hintText: 'Password',
        labelText: 'Input Password',
        border: OutlineInputBorder(
            borderRadius: BorderRadius.circular(20.0))),
  ),
```

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```
),
               Padding(
                 padding: EdgeInsets.fromLTRB(10.0, 40.0, 10.0, 0),
                 child: MaterialButton(
                   color: Colors.blueGrey,
                   textColor: Colors.white,
                   child: Text('Login'),
                   onPressed: () {
                      setState(() {
                        checkForm();
                     });
                   },
                 ),
               ),
               Padding(
                 padding: EdgeInsets.fromLTRB(10.0, 20.0, 10.0, 0),
                 child: MaterialButton(
                   textColor: Colors.blueGrey,
                   child: Text('Belum Punya Akun ? Silahkan Daftar'),
                   onPressed: () {
                     Navigator.push(
                          context,
                          MaterialPageRoute(
                              builder: (context) => PageRegister()));
                   },
                 ),
               )
             ],
           ),
         ),
       );
       break;
     case statusLogin.signIn:
       return PageHome(signout);
       break;
   }
 }
}
```

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14.5. Register

Selanjutnya pada halaman register kita buat seperti berikut :

```
import 'package:day8_night_new/ui_view/page_login.dart';
import 'package:flutter/material.dart';
import 'package:http/http.dart' as http;
import 'dart:convert';
class PageRegister extends StatefulWidget {
@override
_PageRegisterState createState() => _PageRegisterState();
class _PageRegisterState extends State<PageRegister> {
TextEditingController cUsername = TextEditingController();
TextEditingController cFullName = TextEditingController();
TextEditingController cEmail = TextEditingController();
TextEditingController cPassword = TextEditingController();
TextEditingController cAlamat = TextEditingController();
//deklarasi untuk masing-masing widget
String nUsername, nFullName, nEmail, nPassword, nAlamat;
String sex = "";
//menambahkan key form
final keyForm = GlobalKey<FormState>();
void pilihSex(String value){
   setState(() {
    sex = value;
  });
}
// saat user klik tombol register
checkForm(){
  final form = _keyForm.currentState;
  if(form.validate()){
    form.save();
     submitDataRegister();
   }
 }
```

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```
// submit data register
submitDataRegister() async{
  final responseData = await
http.post("http://192.168.10.153/flutter_day6/register.php",
      body: {"username" : nUsername, "full_name" : nFullName, "email" :
nEmail, "password" : nPassword,
         "sex": sex, "alamat": nAlamat}
  );
  final data = jsonDecode(responseData.body);
  int value = data['value'];
  String pesan = data['message'];
  //cek value 1 atau 0
  if(value == 1){
    setState(() {
      Navigator.pop(context);
    });
   }else if(value == 2){
    print(pesan);
  }else{
    print(pesan);
  }
}
@override
Widget build(BuildContext context) {
  return Scaffold(
    body: Form(
      key: _keyForm,
      child: ListView(
         children: <Widget>[
           Text('', style: TextStyle(fontWeight: FontWeight.bold,
fontSize: 26.0, color: Colors.brown),),
           SizedBox(height: 20.0,),
           Image.asset('images/udacoding.jpg', height: 100.0, width:
100.0,),
           Padding(
             padding: EdgeInsets.all(10.0),
             child: TextFormField(
```

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```
controller: cUsername,
    validator: (value){//cek kalau value nya kosong
      if(value.isEmpty){
        return 'Please Input UserName';
      }
      return null;
    },
    onSaved: (value)=>nUsername = cUsername.text,
    decoration: InputDecoration(
        hintText: 'username',
        labelText: 'Input usermame',
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(20.0),
    ),
  ),
),
Padding(
  padding: EdgeInsets.all(10.0),
  child: TextFormField(
    controller: cFullName,
   validator: (value){//cek kalau value nya kosong
      if(value.isEmpty){
        return 'Please Input Full Name';
      }
      return null;
    },
   onSaved: (value)=>nFullName = cFullName.text,
    decoration: InputDecoration(
        hintText: 'Fullname',
        labelText: 'Input Full Name',
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(20.0),
        )
   ),
  ),
),
Padding(
  padding: EdgeInsets.all(10.0),
  child: TextFormField(
   controller: cEmail,
```

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```
validator: (value){//cek kalau value nya kosong
      if(value.isEmpty){
        return 'Please Input Email';
      return null;
    },
   onSaved: (value)=> nEmail = cEmail.text,
    decoration: InputDecoration(
        hintText: 'Email',
        labelText: 'Input Email',
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(20.0),
        )
    ),
  ),
),
Padding(
  padding: EdgeInsets.all(10),
  child: TextFormField(
    controller: cPassword,
   validator: (value){
      if(value.isEmpty){
        return 'Please Input Password';
      return null;
   },
   onSaved: (value)=> nPassword = cPassword.text,
   obscureText: true,
    decoration: InputDecoration(
        hintText: 'Password',
        labelText: 'Input Password',
        border: OutlineInputBorder(
            borderRadius: BorderRadius.circular(20.0)
        )
    ),
  ),
),
//radio button
Padding(
  padding: EdgeInsets.all(10),
```

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```
child: RadioListTile(
    value: "Laki-laki",
   title: Text('Laki-laki'),
    groupValue: sex,
   onChanged: (String value){
      pilihSex(value);
   },
    activeColor: Colors.blueGrey,
    selected: true,
    subtitle: Text('Pilih ini jika laki-laki'),
  ),
),
Padding(
  padding: EdgeInsets.all(10),
  child: RadioListTile(
    value: "Perempuan",
   title: Text('Perempuan'),
    groupValue: sex,
   onChanged: (String value){
      pilihSex(value);
   },
   activeColor: Colors.blueGrey,
    subtitle: Text('Pilih ini jika perempuan'),
  ),
),
Padding(
  padding: EdgeInsets.all(10.0),
  child: TextFormField(
    controller: cAlamat,
   validator: (value){//cek kalau value nya kosong
      if(value.isEmpty){
        return 'Please Input Alamat';
      }
      return null;
    },
   maxLines: 3,
    onSaved: (value)=> nAlamat = cAlamat.text,
    decoration: InputDecoration(
        hintText: 'Alamat',
        labelText: 'Input Alamat',
        border: OutlineInputBorder(
```

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```
borderRadius: BorderRadius.circular(20.0),
                   )
               ),
             ),
           ),
           Padding(
             padding: EdgeInsets.fromLTRB(10.0, 40.0, 10.0, 0),
             child: MaterialButton(
               color: Colors.blueGrey,
               textColor: Colors.white,
               child: Text('Register'),
               onPressed: (){
                 setState(() {
                   checkForm();
                 });
               },
             ),
           ),
           Padding(
             padding: EdgeInsets.fromLTRB(10.0, 20.0, 10.0, 0),
             child: MaterialButton(
               textColor: Colors.blueGrey,
               child: Text('Sudah Punya Akun ? Silahkan Login'),
               onPressed: (){
                 Navigator.push(context, MaterialPageRoute(builder:
(context)=>PageLogin()));
               },
             ),
         ],
       ),
     ),
  );
}
```



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Page Home

buatlah sebuah file baru dan kasih nama page_home.dart, setelah itu tambahkan code berikut :

```
import 'package:flutter/material.dart';
import 'dart:convert';
import 'dart:async';
import 'package:shared_preferences/shared_preferences.dart';
import 'page_add_data_pegawai.dart';
import 'package:apps_atambua/model/model_list_pegawai.dart';
import 'package:http/http.dart' as http;
class PageHome extends StatefulWidget {
final VoidCallback signOut;
PageHome(this.signOut);
 @override
 _PageHomeState createState() => _PageHomeState();
class _PageHomeState extends State<PageHome> {
List<ModelListPegawai> listPegawai = [];
var loading = false;
 //proses get data on background
Future<Null> getData() async{
  setState(() {
   loading = true; //ketika proses get data set loading nya true
  });
  final responseData = await
http.get("http://172.20.10.6/apps_atambua/get_list_pegawai.php");
  //cek status response
  if(responseData.statusCode ==200){
   final data = jsonDecode(responseData.body);
   setState(() {
    for (Map i in data){
     //menambahkan data yang sudah berhasil di get ke list model
     listPegawai.add(ModelListPegawai.fromJson(i));
    }
```

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```
//proses get data berhasil , loading di set false
   loading = false;
  });
}
//tambahan method signout
signOut() async{
setState(() {
  widget.signOut();
});
}
//mengambil nilai dari shared preferences
String username = "", fullname = "";
getDataPref() async{
 SharedPreferences sharedPreferences = await SharedPreferences.getInstance();
 setState(() {
  username = sharedPreferences.getString("username");
  fullname = sharedPreferences.getString("fullname");
});
}
@override
void initState() {
// TODO: implement initState
 super.initState();
 getDataPref();
 getData();
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   title: Text('Hi, ' + username),
   automaticallyImplyLeading: false,//buat hilangin tombol back
   backgroundColor: Colors.blueGrey,
   actions: <Widget>[
    IconButton(
     icon: Icon(
      Icons.exit_to_app,
      color: Colors.white,
     ),
```



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```
onPressed: (){
       signOut();
   body: Container(
    child: loading? Center(child: CircularProgressIndicator()): ListView.builder(
     itemCount: listPegawai.length,
     itemBuilder: (context, index){
      final nDataList = listPegawai[index];
      return Card(
       margin: EdgeInsets.all(5.0),
       child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: <Widget>[
         Text(nDataList.namaPegawai, style: TextStyle(fontWeight: FontWeight.bold,
            fontSize: 16.0, color: Colors.red
         ),),
         Text(nDataList.jabatan)
    ),),
   floatingActionButton: FloatingActionButton(
    onPressed: (){
     Navigator.push(context, MaterialPageRoute(builder:
(context)=>PageAddPegawai()));
    },child: lcon(lcons.add),
    foregroundColor: Colors.white,
    backgroundColor: Colors.blueGrey,
    shape: _DiamondBorder(),
class _DiamondBorder extends ShapeBorder {
const _DiamondBorder();
@override
EdgeInsetsGeometry get dimensions {
```



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```
return const EdgeInsets.only();
 @override
 Path getInnerPath(Rect rect, { TextDirection textDirection }) {
  return getOuterPath(rect, textDirection: textDirection);
 @override
 Path getOuterPath(Rect rect, { TextDirection textDirection }) {
  return Path()
   ..moveTo(rect.left + rect.width / 2.0, rect.top)
   ..lineTo(rect.right, rect.top + rect.height / 2.0)
   ..lineTo(rect.left + rect.width / 2.0, rect.bottom)
   ..lineTo(rect.left, rect.top + rect.height / 2.0)
   ..close();
 }
 @override
 void paint(Canvas canvas, Rect rect, { TextDirection textDirection }) {}
 // This border doesn't support scaling.
 @override
 ShapeBorder scale(double t) {
  return null;
 }
}
```



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Hasilnya:

