

LAMPIRAN

Lampiran-1 Listing program aplikasi main.dart menggunakan *visual studio code*

```

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

import
'package:monitor_sampah/home.d
art';

import
'package:firebase_core/firebas
e_core.dart';

import
'package:flutter/services.dart
';

Future<void> main() async {
WidgetsFlutterBinding.ensureIn
itialized();

SystemChrome.setSystemUIOverla
yStyle(const
SystemUiOverlayStyle(
    statusBarColor:
Color(0xFFB71C1C),

    statusBarIconBrightness:
Brightness.light,

    // transparent status bar
));

await
Firebase.initializeApp();

runApp(
    MaterialApp(
        title: 'TRASH
MONITORING',

        theme: ThemeData(
            fontFamily:
'Signika',

            primaryColor:
Colors.red.shade900,

            splashColor:
Colors.red.shade900,

            colorScheme:
ColorScheme.fromSwatch().copyW
ith(secondary:
Colors.red.shade900),

            ),

        home: const
OkeyPage(),

        debugShowCheckedModeBanner:
false),

    );

}

class OkeyPage extends
StatefulWidget {
    const OkeyPage({Key? key}) :
super(key: key);

    @override
    _OkeyPageState createState()
=> _OkeyPageState();
}

class _OkeyPageState extends
State<OkeyPage> {
    final myController =
TextEditingController();

    final myController2 =
TextEditingController();

    @override
    void dispose() {
        // Clean up the controller
when the widget is disposed.

        myController.dispose();
        myController2.dispose();
    }
}

```



```

//                                     // ),
style: TextStyle(                                     // ),
//                                     //
fontWeight: FontWeight.w900,                             Padding(
//                                     //padding:
fontSize: 20,                                     const
//                                     EdgeInsets.only(left:15.0, right:
//                                     t: 15.0, top:0, bottom: 0),
//                                     padding:
//                                     const
//                                     EdgeInsets.symmetric(horizontal:
//                                     25),
//                                     child:
//                                     TextField(
//                                     const
Padding(                                     controller: myController,
//                                     padding:
EdgeInsets.only(top: 6.0,                                     decoration:
bottom: 50.0),                                     const
//                                     InputDecoration(
//                                     child:
Center(                                     border: OutlineInputBorder(),
//                                     child:
SizedBox(                                     labelText: 'Username',
//                                     hintText: 'Silahkan masukkan
//                                     username anda'),
//                                     ),
//                                     ),
borderRadius:                                     Padding(
BorderRadius.circular(50.0)),*                                     padding:
//                                     const EdgeInsets.only(
child: Text(                                     left:
//                                     25.0, right: 25.0, top: 25,
"BROILER CHICKEN",                                     bottom: 25),
//                                     //padding:
style: TextStyle(                                     EdgeInsets.symmetric(horizontal:
//                                     15),
fontWeight: FontWeight.w900,                                     child:
//                                     TextField(
//                                     controller: myController2,
//                                     ),
//                                     ),
//                                     obscureText: true,
//                                     ),

```

```

decoration:          const
InputDecoration(

border: OutlineInputBorder(),

focusColor: Colors.amber,

hoverColor: Colors.amber,

labelText:          'Password',
hintText: 'Silahkan masukkan
password anda'),

),
),
// TextButton(
//
onPressed: () {

//      // TODO
FORGOT PASSWORD SCREEN GOES
HERE

// },
//      child:
const Text(

//      'Forgot
Password',

//      style:
TextStyle(color: Colors.blue,
fontSize: 15),

// ),
// ),
Container(
height: 50,
width: 250,
decoration:
BoxDecoration(

color:
Colors.red.shade900,

borderRadius:
BorderRadius.circular(20)),

child:
TextButton(

onPressed:

() {

if
(myController.text == "ar" &&
myController2.text == "123") {

Navigator.push(context,

MaterialPageRoute(builder: (_)
=> MyHomePage()));

} else
if (myController.text == "" ||
myController2.text == "") {

showDialog(

context: context,

builder: (context) {

return const AlertDialog(

title: Center(

child: Icon(

Icons.dangerous_rounded,

color: Color.fromARGB(255,
143, 0, 0),

size: 50.0,

),

),

// Retrieve the text the that
user has entered by using the

```

```

// TextEditingController.                                // TextEditingController.

content: Text(
    "Username atau Password tidak
    boleh kosong",
    textAlign: TextAlign.center,
),
);
},
);
} else {

showDialog(
    context: context,
    builder: (context) {
        return const AlertDialog(
            title: Center(
                child: Icon(
                    Icons.dangerous_rounded,
                    color: Color.fromARGB(255,
                    143, 0, 0),
                    size: 50.0,
                ),
            ),
            // Retrieve the text the that
            user has entered by using the

const Text(
    "Username atau Password Anda
    salah",
    textAlign: TextAlign.center,
),
);
},
child:
const Text(
    'Login',
    style:
        color:
Colors.white,
    fontSize: 20,
    fontWeight: FontWeight.w700,
),
),
const
    SizedBox(
        height: 130,
    ),
    // const
    Text('New User? Create
    Account')
],

```


Lampiran-2 Listing program aplikasi home menggunakan *visual studio code*

```
import 'dart:async';
import 'dart:io';

import
'package:firebase_core/firebase_core.dart';
import
'package:firebase_database/firebase_database.dart';
// import
'package:firebase_database/ui/firebase_animated_list.dart';
import
'package:flutter/foundation.dart' show kIsWeb;
import
'package:flutter/material.dart';
import
'package:percent_indicator/percent_indicator.dart';
// import
'package:flutter_switch/flutter_switch.dart';
import
'package:intl/intl.dart';
import
'package:webview_flutter/webview_flutter.dart';
import
'package:flutter_map/flutter_map.dart';
import
'package:flutter_map/plugin_api.dart';
import
'package:latlong2/latlong.dart';
import
'package:location/location.dart';
import
'package:flutter/services.dart';
import
'package:maps_launcher/maps_launcher.dart';

Future<void> main() async {

WidgetsFlutterBinding.ensureInitialized();
  await
  Firebase.initializeApp();

  runApp(
    const MaterialApp(
      title: 'TRASH MONITOR',
      home: MyHomePage(),
    ),
  );
}

class MyHomePage extends StatefulWidget {
  static const String route = '/live_location';

  const MyHomePage({Key? key}) : super(key: key);

  @override
  _MyHomePageState createState() {
    return _MyHomePageState();
  }
}

class _MyHomePageState extends State<MyHomePage> {
  final myController = TextEditingController();
  final myController2 = TextEditingController();
  final myController3 = TextEditingController();
  final myController4 = TextEditingController();
  final myController5 = TextEditingController();
  final myController6 = TextEditingController();

  late bool status;
  late bool status2;
  late bool status3;
  late bool status4;

  String _longitude1 = "";
  String _longitude2 = "";
  String _latitude1 = "";
  String _latitude2 = "";
  String _nilai1 = "";
  String _nilai2 = "";

  late DatabaseReference _nilai1Ref;
  late DatabaseReference _nilai2Ref;
```

```

        late DatabaseReference
        _longitudelRef;
        late DatabaseReference
        _latitudelRef;
        late DatabaseReference
        _longitude2Ref;
        late DatabaseReference
        _latitude2Ref;

        late DatabaseReference
        _messagesRef;
        late DatabaseReference
        _messages2Ref;
        late
        StreamSubscription<DatabaseEve
        nt> _nilai1Subscription;
        late
        StreamSubscription<DatabaseEve
        nt> _nilai2Subscription;
        late
        StreamSubscription<DatabaseEve
        nt> _longitudelSubscription;
        late
        StreamSubscription<DatabaseEve
        nt> _longitude2Subscription;
        late
        StreamSubscription<DatabaseEve
        nt> _latitude2Subscription;
        late
        StreamSubscription<DatabaseEve
        nt> _latitudelSubscription;
        late
        StreamSubscription<DatabaseEve
        nt> _messagesSubscription;
        late
        StreamSubscription<DatabaseEve
        nt> _messages2Subscription;

        bool _anchorToBottom =
        false;

        final String _kTestKey =
        'Hello';
        final String _kTestValue =
        'world!';
        FirebaseException? _error;
        bool initialized = false;

        String convertToIdr(dynamic
        number, int decimalDigit) {
            NumberFormat
            currencyFormatter =
            NumberFormat.currency(
                locale: 'id',
                symbol: 'Rp ',

                decimalDigits:
                decimalDigit,
                decimalDigit,
            );
            return
            currencyFormatter.format(numbe
            r);
        }

        String greeting() {
            var hour =
            DateTime.now().hour;
            if (hour < 11) {
                return 'Selamat Pagi';
            }
            if (hour < 16) {
                return 'Selamat Siang';
            }
            if (hour < 18) {
                return 'Selamat Sore';
            }
            return 'Selamat Malam';
        }

        String splitt(String
        text_split) {
            final h_split =
            text_split.split('%');
            return h_split[1];
        }

        String splitt2(String
        text_split) {
            final h_split =
            text_split.split('%');
            return h_split[2];
        }

        String bulan() {
            var now = DateTime.now();
            var formatter =
            DateFormat('MMMM');
            String formattedDate =
            formatter.format(now);
            return formattedDate; //
            2016-01-25
        }

        LocationData?
        _currentLocation;
        late final MapController
        _mapController;

        bool _liveUpdate = false;
        bool _permission = false;

        String? _serviceError = '';

```

```

    int interActiveFlags =
    InteractiveFlag.all;

    final Location
    _locationService = Location();

    @override
    void initState() {
        init();
        super.initState();
        if (Platform.isAndroid)
        WebView.platform =
        AndroidWebView();
        _mapController =
        MapController();
        initLocationService();
    }

    void initLocationService()
    async {
        await
        _locationService.changeSetting
        s(
            accuracy:
            LocationAccuracy.high,
            interval: 1000,
        );

        LocationData? location;
        bool serviceEnabled;
        bool serviceRequestResult;

        try {
            serviceEnabled = await
            _locationService.serviceEnable
            d();

            if (serviceEnabled) {
                final permission =
                await
                _locationService.requestPermis
                sion();
                _permission =
                permission ==
                PermissionStatus.granted;

                if (_permission) {
                    location = await
                    _locationService.getLocation()
                    ;
                    _currentLocation =
                    location;

                    _locationService.onLocationCha
                    nged

                    .listen((LocationData result)
                    async {
                        if (mounted) {
                            setState(() {

                                _currentLocation = result;

                                // If Live
                                Update is enabled, move map
                                center

                                if
                                (_liveUpdate) {
                                    _mapController.move(
                                    LatLng(_currentLocation!.latit
                                    ude!,

                                    _currentLocation!.longitude!),
                                    _mapController.zoom);
                                }
                            });
                        }
                    } else {
                        serviceRequestResult =
                        await
                        _locationService.requestServic
                        e();
                        if
                        (serviceRequestResult) {
                            initLocationService();
                            return;
                        }
                    } on PlatformException
                    catch (e) {

                        debugPrint(e.toString());
                        if (e.code ==
                        'PERMISSION_DENIED') {
                            _serviceError =
                            e.message;
                        } else if (e.code ==
                        'SERVICE_STATUS_ERROR') {
                            _serviceError =
                            e.message;
                        }
                        location = null;
                    }
                }
            }
        }
    }

```

```

    Future<void> init() async {
      _nilai1Ref =
        FirebaseDatabase.instance.ref(
          'tps1/tinggi');
      _nilai2Ref =
        FirebaseDatabase.instance.ref(
          'tps2/tinggi');
      _longitudel1Ref =
        FirebaseDatabase.instance.ref(
          'longitudel1');
      _longitude2Ref =
        FirebaseDatabase.instance.ref(
          'longitude2');
      _latitudel1Ref =
        FirebaseDatabase.instance.ref(
          'latitudel1');
      _latitude2Ref =
        FirebaseDatabase.instance.ref(
          'latitude2');

      final database =
        FirebaseDatabase.instance;

      _messagesRef =
        database.ref('/');
      _messages2Ref =
        database.ref('/');

      database.setLoggingEnabled(false);

      if (!kIsWeb) {

        database.setPersistenceEnabled(
          true);

        database.setPersistenceCacheSizeBytes(
          10000000);
      }

      if (!kIsWeb) {
        await
          _nilai1Ref.keepSynced(true);
      }
      if (!kIsWeb) {
        await
          _nilai2Ref.keepSynced(true);
      }

      if (!kIsWeb) {
        await
          _longitudel1Ref.keepSynced(true);
      }
      if (!kIsWeb) {

```

```

        await
          _longitude2Ref.keepSynced(true);
      }
      if (!kIsWeb) {
        await
          _latitudel1Ref.keepSynced(true);
      }
      if (!kIsWeb) {
        await
          _latitude2Ref.keepSynced(true);
      }

      setState(() {
        initialized = true;
      });

      _nilai1Subscription =
        _nilai1Ref.onValue.listen(
          (DatabaseEvent event) {
            setState(() {
              _error = null;
              _nilai1 =
                (event.snapshot.value ?? 0) as
                String;
            });
          },
          onError: (Object o) {
            final error = o as
              FirebaseException;
            setState(() {
              _error = error;
            });
          },
        );

      _nilai2Subscription =
        _nilai2Ref.onValue.listen(
          (DatabaseEvent event) {
            setState(() {
              _error = null;
              _nilai2 =
                (event.snapshot.value ?? 0) as
                String;
            });
          },
          onError: (Object o) {
            final error = o as
              FirebaseException;
            setState(() {
              _error = error;
            });
          },
        );
    }
  }
}

```

```

        _longitude1Subscription =
        _longitude1Ref.onValue.listen(
            (DatabaseEvent event) {
                setState(() {
                    _error = null;
                    _longitude1 =
                    (event.snapshot.value ?? 0) as
                    String;
                });
            },
            onError: (Object o) {
                final error = o as
                FirebaseException;
                setState(() {
                    _error = error;
                });
            },
        );

        _longitude2Subscription =
        _longitude2Ref.onValue.listen(
            (DatabaseEvent event) {
                setState(() {
                    _error = null;
                    _longitude2 =
                    (event.snapshot.value ?? 0) as
                    String;
                });
            },
            onError: (Object o) {
                final error = o as
                FirebaseException;
                setState(() {
                    _error = error;
                });
            },
        );

        _latitude1Subscription =
        _latitude1Ref.onValue.listen(
            (DatabaseEvent event) {
                setState(() {
                    _error = null;
                    _latitude1 =
                    (event.snapshot.value ?? 0) as
                    String;
                });
            },
            onError: (Object o) {
                final error = o as
                FirebaseException;
                setState(() {
                    _error = error;
                });
            },
        );

```

```

    );

    _latitude2Subscription =
    _latitude2Ref.onValue.listen(
        (DatabaseEvent event) {
            setState(() {
                _error = null;
                _latitude2 =
                (event.snapshot.value ?? 0) as
                String;
            });
        },
        onError: (Object o) {
            final error = o as
            FirebaseException;
            setState(() {
                _error = error;
            });
        },
    );

    final messagesQuery =
    _messagesRef.limitToLast(10);

    _messagesSubscription =
    messagesQuery.onChildAdded.li
    sten(
        (DatabaseEvent event) {
            print('Child added:
            ${event.snapshot.value}');
        },
        onError: (Object o) {
            final error = o as
            FirebaseException;
            print('Error:
            ${error.code}
            ${error.message}');
        },
    );

    final messages2Query =
    _messages2Ref.limitToLast(10);

    _messages2Subscription =
    messages2Query.onChildAdded.li
    sten(
        (DatabaseEvent event) {
            print('Child added:
            ${event.snapshot.value}');
        },
        onError: (Object o) {
            final error = o as
            FirebaseException;
            print('Error:
            ${error.code}
            ${error.message}');
        },
    );

```

```

    },
  );
}

@override
void dispose() {
  super.dispose();
  myController.dispose();
  myController2.dispose();
  myController3.dispose();
  myController4.dispose();
  myController5.dispose();
  myController6.dispose();

  _messagesSubscription.cancel();
  _messages2Subscription.cancel();
  _nilai1Subscription.cancel();
  _nilai2Subscription.cancel();
  _longitude1Subscription.cancel();
  _longitude2Subscription.cancel();
  _latitude1Subscription.cancel();
  _latitude2Subscription.cancel();
}

@override
Widget build(BuildContext context) {
  LatLng currentLatLng;

  // Until currentLocation
  // is initially updated, Widget
  // can locate to 0, 0
  // by default or store
  // previous location value to
  // show.
  if (_currentLocation !=
  null) {
    currentLatLng =
    LatLng(_currentLocation!.latit
    ude!,
    _currentLocation!.longitude!);

    } else {
      currentLatLng =
      LatLng(0, 0);
    }
    if (!initialized) return
    Container();

    return Scaffold(
      // appBar: AppBar(
      //   title: const
      Text('Flutter Database
      Example'),
      // ),
      body: SafeArea(
        child: Column(
          children: [
            Container(
              decoration:
                BoxDecoration(
                  image: const
                    DecorationImage(
                      image:
                        AssetImage('assets/gambar/head
                        _kuning.png'),
                      fit:
                        BoxFit.fill),
                  color:
                    Colors.red.shade900,
                  borderRadius:
                    const BorderRadius.only(
                      bottomRight:
                        Radius.circular(20.0),
                      bottomLeft:
                        Radius.circular(20.0)),
                  boxShadow:
                    const [
                      BoxShadow(
                        color:
                          Colors.grey,
                        offset:
                          Offset(0.0, 0.0),
                        blurRadius: 3.0,
                        spreadRadius: 3.0,
                      ),
                    ],
                  // padding:
                    EdgeInsets.all(20),
                  child:
                    Container(
                      // margin:
                        EdgeInsets.all(10),

```

```

padding: const
EdgeInsets.only(
  top: 5,
  left: 15, right: 15, bottom:
  15),
  child: Column(
    mainAxisAlignment:
    MainAxisAlignment.spaceBetween
    ,
    children:
    <Widget>[
      Row(
        mainAxisAlignment:
        MainAxisAlignment.spaceBetween
        ,
        children: [
          Text(
            greeting(),
            style: const TextStyle(
              fontWeight: FontWeight.w800,
              fontSize: 17,
              color: Colors.white,
            ),
          ),
          const
          Text(
            "TRASH MONITORING",
            style: TextStyle(
              fontWeight: FontWeight.w800,
              fontSize: 17,
              color: Colors.white),
          ),
        ],
      ),
      Row(
        mainAxisAlignment:
        MainAxisAlignment.spaceBetween
        ,
        children: [
          Row(
            children: const [
              Icon(
                Icons.person,
                size: 20,
                color: Colors.white,
              ),
              Text(
                "SUARDI",
                style: TextStyle(
                  fontSize: 15,
                  fontStyle: FontStyle.normal,
                  fontWeight: FontWeight.w800,
                  color: Colors.white,
                ),
              ),
            ],
          ),
          Text(
            "KOTA PAREPARE",
            style: TextStyle(
              fontSize: 15,
              color: Colors.white,
              fontWeight: FontWeight.w800),
          ),
        ],
      ),
    ],
  ),
),
const
Text(
  "KOTA PAREPARE",
  style: TextStyle(
    fontSize: 15,
    color: Colors.white,
    fontWeight: FontWeight.w800),
),
],
),
Row(
  mainAxisAlignment:
  MainAxisAlignment.spaceBetween
  ,
  children: [
    Row(
      children: const [

```

[illegible]

```
child: Column(
    ),
mainAxisAlignment:
MainAxisAlignment.center,
),
children: [
    SizedBox(
        height: 50,
        width: 70,
        child: Tab(
            child: Column(
                mainAxisAlignment:
                MainAxisAlignment.center,
                children: [
                    Icon(
                        Icons.settings,
                        color: Colors.red.shade900,
                    ),
                    const Text(
                        "Pengaturan",
                    ),
                ],
            ),
        ),
        child: Column(
            mainAxisAlignment:
            MainAxisAlignment.center,
            children: [
                Icon(
                    Icons.map_rounded,
                    color: Colors.red.shade900,
                ),
                const Text(
                    "MAPS",
                ),
            ],
        ),
    ],
)
```

```

                                //
children: [                                bottom: 5,
                                //
Icon(                                    right: 5,
                                //
Icons.history,                        left: 5,
                                //
color: Colors.red.shade900,          ),
                                //
),                                    child: Container(
                                //
Text(                                decoration: BoxDecoration(
                                //
"History",                            color: Colors.white,
                                //
),                                    boxShadow: const [
                                //
],                                    BoxShadow(
                                //
),                                    color: Color.fromARGB(
                                //
),                                    255, 225, 225, 225),
                                //
),                                    offset: Offset(0.0, 0.0),
                                //
),                                    blurRadius: 2.0,
                                //
                                spreadRadius: 2.0,
                                //
Expanded(                            ),
child: TabBarView(                    ),
children: <Widget>[                  ],
ListView(                            borderRadius:
BorderRadius.circular(
children: [                           20) // use instead of
Column(                               BorderRadius.all(Radius.circular(20))
children: [                            ),
Container(                             // margin: EdgeInsets.all(10),
decoration: const                     padding: const
BoxDecoration(                        EdgeInsets.all(15),
color: Color.fromARGB(                child: Column(
255, 238, 238, 238),                 children: [
),                                     const Row(
padding: const                        mainAxisAlignment:
EdgeInsets.only(                       MainAxisAlignment
top: 10,                             )

```

```

.spaceBetween,
children: [
Text(
  "TPS I",
  style: TextStyle(
    fontSize: 18,
    color: Colors.black,
    fontWeight:
    FontWeight.w800),
),
Icon(Icons.line_weight),
],
),
Row(
  mainAxisAlignment:
  MainAxisAlignment.center,
  children: [
    CircularPercentIndicator(
      radius: 60.0,
      lineWidth: 12.0,
      // animation: true,
      // animationDuration: 1000,
      percent: (double.parse(
        splitt(_nilail))) /
        29,
      // percent: 10 / 100,
      center: Column(
        mainAxisAlignment:
        MainAxisAlignment
        .center,
        children: [
          Text(
            (double.parse(splitt(
              _nilail)))
              .toStringAsFixed(
                2),

```

```

style: const TextStyle(
  fontSize: 35,
  color:
Colors.black,
fontWeight:
FontWeight
.w800),
),
const Text(
  "CM (Sensor 1)",
  style: TextStyle(
    fontSize: 10,
    color: Colors.black,
  ),
),
],
),
circularStrokeCap:
CircularStrokeCap.round,
backgroundColor:
const Color.fromARGB(
255, 225, 225, 225),
progressColor:
Colors.red.shade900,
),
SizedBox(width: 10),

// TPS I sensor 2
CircularPercentIndicator(
  radius: 60.0,
  lineWidth: 12.0,
  // animation: true,
  // animationDuration: 1000,
  percent: (double.parse(
    splitt2(_nilail))) /
29,
  // percent: 10 / 100,
  center: Column(
    mainAxisAlignment:
MainAxisAlignment
.center,
    children: [
      Text(
        (double.parse(splitt2(
          _nilail)))
.toStringAsFixed(
2),
        style: const TextStyle(
          fontSize: 35,
          color:
Colors.black,
fontWeight:
FontWeight
.w800),
      ),
      const Text(

```

```

"CM (Sensor 2)",
style: TextStyle(
fontSize: 10,
color: Colors.black,
),
),
],
),
circularStrokeCap:
CircularStrokeCap.round,
backgroundColor:
const Color.fromARGB(
255, 225, 225, 225),
progressColor:
Colors.red.shade900,
),
],
),
SizedBox(height: 10),
ElevatedButton(
style:
ElevatedButton.styleFrom(
primary:
Colors.red, // background
onPrimary: Colors
.white, // foreground
),
onPressed: () =>
MapsLauncher.launchCoordinates(
(
double.parse(_latitude1),
double.parse(_longitude1),
'TPS I' +
" (" +
((double.parse(splitt(
_nilai1)) +
double.parse(
splitt2(
_nilai1))) /
2)
.toStringAsFixed(
2) +
" CM")),
child: Text('Open Maps'),
),
],
),
),
Container(
decoration: const
BoxDecoration(
color: Color.fromARGB(
255, 238, 238, 238),
),
padding: const
EdgeInsets.only(
top: 10,

```

```

bottom: 5,
right: 5,
left: 5,
),
child: Container(
  decoration: BoxDecoration(
    color: Colors.white,
    boxShadow: const [
      BoxShadow(
        color: Color.fromARGB(
          255, 225, 225, 225),
        offset: Offset(0.0, 0.0),
        blurRadius: 2.0,
        spreadRadius: 2.0,
      ),
    ],
    borderRadius:
      BorderRadius.circular(
        20) // use instead of
      BorderRadius.all(Radius.circular(20))
  ),
  // margin: EdgeInsets.all(10),
  padding: const
    EdgeInsets.all(15),
  child: Column(
    children: [
      Row(
        mainAxisAlignment:
          MainAxisAlignment
            .spaceBetween,
        children: const [
          Text(
            "TPS II",
            style: TextStyle(
              fontSize: 18,
              color: Colors.black,
              fontWeight:
                FontWeight.w800),
          ),
          Icon(Icons
            .line_weight_rounded),
        ],
      ),
      Row(
        mainAxisAlignment:
          MainAxisAlignment
            .spaceBetween,
        children: const [
          Text(
            "(Ketinggian Sampah)",
            style: TextStyle(
              fontSize: 10,
              color: Colors.black,
              fontStyle:
                FontStyle.italic,
              fontWeight:
                FontWeight.normal),

```

```

),
],
),

const Padding(
padding: EdgeInsets.only(
bottom: 10)),
Row(
mainAxisAlignment:
MainAxisAlignment.center,
children: [
CircularPercentIndicator(
radius: 60.0,
lineWidth: 12.0,
// animation: true,
// animationDuration: 1000,
percent: (double.parse(
splitt(_nilai2))) /
29,
// percent: 10 / 100,
center: Column(
mainAxisAlignment:
MainAxisAlignment
.center,
children: [
Text(
(double.parse(splitt(
_nilai2)))
.toStringAsFixed(
2),
style: const TextStyle(
fontSize: 35,
color:
Colors.black,
fontWeight:
FontWeight
.w800),
),
const Text(
"CM (Sensor 1)",
style: TextStyle(
fontSize: 10,
color: Colors.black,
),
),
],
),
circularStrokeCap:
CircularStrokeCap.round,
backgroundColor:
const Color.fromARGB(
255, 225, 225, 225),
progressColor:
Colors.red.shade900,
),

```

```

    SizedBox(width: 10),

    // TPS I sensor 2
    CircularPercentIndicator(
      radius: 60.0,
      lineWidth: 12.0,
      // animation: true,
      // animationDuration: 1000,
      percent: (double.parse(
        splitt2(_nilai2))) /
        29,
      // percent: 10 / 100,
      center: Column(
        mainAxisAlignment:
        MainAxisAlignment
        .center,
        children: [
          Text(
            (double.parse(splitt2(
              _nilai2)))
              .toStringAsFixed(
                2),
            style: const TextStyle(
              fontSize: 35,
              color:
              Colors.black,
              fontWeight:
              FontWeight
                .w800),
          ),
          const Text(
            "CM (Sensor 2)",
            style: TextStyle(
              fontSize: 10,
              color: Colors.black,
            ),
          ),
        ],
      ),
      circularStrokeCap:
      CircularStrokeCap.round,
      backgroundColor:
      const Color.fromARGB(
        255, 225, 225, 225),
      progressColor:
      Colors.red.shade900,
    ),
    ],
  ),
  SizedBox(height: 10),
  ElevatedButton(
    style:
    ElevatedButton.styleFrom(
      primary:
      Colors.red, // background
      onPrimary: Colors

```

```

.white, // foreground
),
onPressed: () =>
MapsLauncher.launchCoordinates
(
double.parse(_latitude2),
double.parse(_longitude2),
'TPS II' +
" (" +
((double.parse(splitt(
_nilai2)) +
double.parse(
splitt2(
_nilai2))) /
2)
.toStringAsFixed(
2) +
" CM)"),
child: Text('Open Maps'),
),
// const Padding(
//   padding:
EdgeInsets.only(
//     bottom: 10)),
// Column(
//   mainAxisAlignment:
//
//   MainAxisAlignment.center,
//   children: <Widget>[
//     Text(

```

```

//           "Jumlah Yang harus
dibayar sebesar ",
//           style: const
TextStyle(
//           fontSize: 12,
//           fontWeight:
FontWeight.normal,
//           color:
Colors.black,
//           ),
//           ),
//           Text(
//           _nilai1.toString(),
//           style: TextStyle(
//           fontSize: 12,
//           fontWeight:
FontWeight.bold,
//           color:
Colors.black,
//           ),
//           ),
//           ],
//           ),
//           ],
//           Text(

```

```

],
    ), // Container(

    //Peta
    FlutterMap(
      options: MapOptions(
        center:
        LatLng(_currentLocation!.latitude!,
        _currentLocation!.longitude!),
        // center:
        LatLng(_currentLocation!.latitude!,
        _currentLocation!.longitude!),
        //
        _currentLocation!.longitude!),
        zoom: 15,
      ),
      // nonRotatedChildren: [
      //
      AttributionWidget.defaultWidget(
        //      source:
        (double.parse(_latitude1) *
        //
        double.parse(_longitude1))
        //          .toString(),
        //      onSourceTapped: null,
        //    ),
      // ],
      children: [
        TileLayer(
          urlTemplate:
            'https://tile.openstreetmap.org/{z}/{x}/{y}.png',
            userAgentPackageName:
            'com.example.app',
          ),
        MarkerLayer(
          markers: [
            Marker(
              point: LatLng(
                _currentLocation!.latitude!,
                _currentLocation!.longitude!),
              width: 80,
              height: 80,
              builder: (context) => Icon(
                Icons.person_pin_circle_sharp,
                color: Colors.red,
                size: 50.0,
              ),
            ),
            Marker(
              point:
                LatLng(double.parse(_latitude1)
                ),
              double.parse(_longitude1)),
              width: 80,
              height: 80,
              builder: (context) => Icon(
                Icons.pin_drop_rounded,
                color: Colors.red,
                size: 50.0,

```

```

),
),
Marker(
  point:
    LatLng(double.parse(_latitude2
    ),
    double.parse(_longitude2)),
  width: 80,
  height: 80,
  builder: (context) => Icon(
    Icons.pin_drop_rounded,
    color: Colors.red,
    size: 50.0,
  ),
),
],
),
],
),
// WebView(
//   initialUrl:
//     'https://google.com',
//   ),
//Pengaturan
ListView(
  children: [
    Column(
      children: [
        Container(
          decoration: const
            BoxDecoration(
              color: Color.fromARGB(
                255, 238, 238, 238),
            ),
          padding: const
            EdgeInsets.only(
              top: 10,
              bottom: 5,
              right: 5,
              left: 5,
            ),
          child: Container(
            decoration: BoxDecoration(
              color: Colors.white,
              boxShadow: const [
                BoxShadow(
                  color: Color.fromARGB(
                    255, 225, 225, 225),
                  offset: Offset(0.0, 0.0),
                  blurRadius: 2.0,
                  spreadRadius: 2.0,
                ),
              ],
            borderRadius:
              BorderRadius.circular(
                20) // use instead of
                BorderRadius.all(Radius.circular(20))
            ),
          ),
        ),
      ],
    ),
  ],
),

```

```

// margin: EdgeInsets.all(10),      // const Padding(
padding: const                      //   padding:
EdgeInsets.all(20),                 EdgeInsets.all(5),
child: Column(                      // ),
children: [
  Row(
    mainAxisAlignment:              decoration: const
    MainAxisAlignment                BoxDecoration(
    .spaceBetween,                   color: Color.fromARGB(
    children: [                      255, 238, 238, 238),
    const Text(                     ),
    "Pengaturan Lokasi TPS",        padding: const
    style: TextStyle(               EdgeInsets.all(5),
    fontSize: 18,                   child: Container(
    color: Colors.black,            decoration: BoxDecoration(
    fontWeight:                     color: Colors.white,
    FontWeight.w700),              boxShadow: const [
    ),                               BoxShadow(
    Icon(                           color: Color.fromARGB(
    Icons.date_range_rounded,       255, 225, 225, 225),
    color: Colors.red.shade900,     offset: Offset(0.0, 0.0),
    ),                               blurRadius: 2.0,
    ],                               spreadRadius: 2.0,
    ),                               ),
    ],                               ],
    ),                               borderRadius:
    ],                               BorderRadius.circular(
    ),                               20) // use instead of
    ),                               BorderRadius.all(Radius.circul
    ),                               ar(20))
    ),                               ),

```

```

// margin: EdgeInsets.all(10),
padding:
const EdgeInsets.only(top:
20),
child: Column(
children: [
const Text(
"TPS I",
style: TextStyle(
fontSize: 15,
fontStyle: FontStyle.normal,
fontWeight: FontWeight.w800,
color: Colors.black,
),
),
Padding(
padding:
const EdgeInsets.all(5)),
Padding(
// padding: const
EdgeInsets.only(left:15.0, right:
15.0, top:0, bottom: 0),
padding:
const EdgeInsets.symmetric(
horizontal: 25),
child: TextField(
controller: myController3,
decoration: const
InputDecoration(
border:
OutlineInputBorder(),
labelText: 'Longitude',
hintText:
'Silahkan masukkan Longitude
TPS II'),
),
),
const Text(
"TPS II",
OutlineInputBorder(),
labelText: 'Latitude',
hintText:
'Silahkan masukkan Latitude
TPS I'),
),
Padding(
//padding: const
EdgeInsets.only(left:15.0, right:
15.0, top:0, bottom: 0),
padding: const
EdgeInsets.only(
left: 25.0,
right: 25.0,
top: 25,
bottom: 25),
child: TextField(
controller: myController4,
decoration: const
InputDecoration(
border:
OutlineInputBorder(),
labelText: 'Longitude',
hintText:
'Silahkan masukkan Longitude
TPS II'),
),
const Text(

```

```

style: TextStyle(
  fontSize: 15,
  fontStyle: FontStyle.normal,
  fontWeight: FontWeight.w800,
  color: Colors.black,
),
),
Padding(
  padding:
    const EdgeInsets.all(5)),
  Padding(
    // padding: const
    EdgeInsets.only(left:15.0, right: 15.0, top:0, bottom: 0),
    padding:
      const EdgeInsets.symmetric(
        horizontal: 25),
    child: TextField(
      controller: myController5,
      decoration: const
        InputDecoration(
          border:
            OutlineInputBorder(),
          labelText: 'Latitude',
          hintText:
            'Silahkan masukkan Latitude
            TPS II'),
        ),
        ),
        Padding(
          //padding: const
          EdgeInsets.only(left:15.0, right: 15.0, top:0, bottom: 0),
          padding: const
            EdgeInsets.only(
              left: 25.0,
              right: 25.0,
              top: 25,
              bottom: 25),
          child: TextField(
            controller: myController6,
            decoration: const
              InputDecoration(
                border:
                  OutlineInputBorder(),
                labelText: 'Longitude',
                hintText:
                  'Silahkan masukkan Longitude
                  TPS II'),
              ),
              ),
              Row(
                mainAxisAlignment:
                  MainAxisAlignment.end,
                children: [
                  Container(
                    margin:
                      const EdgeInsets.only(
                        right: 25),
                    height: 40,

```

```

width: 100,
decoration: BoxDecoration(
color:
Colors.red.shade900,
borderRadius:
BorderRadius
.circular(5)),
child: TextButton(
onPressed: () {
_messagesRef
.child("latitude1")
.set(myController3
.text);
_messagesRef
.child("longitude1")
.set(myController4
.text);
_messagesRef
.child("latitude2")
.set(myController5
.text);
_messagesRef
.child("longitude2")
.set(myController6
.text);
},
child: const Text(
'SAVE',
style: TextStyle(
color: Colors.white,
fontSize: 18,
fontWeight:
FontWeight.w700,
),
),
const Padding(
padding:
EdgeInsets.only(bottom: 25),
),
),
Container(
decoration:
const BoxDecoration(
color:
Color.fromARGB(
255,
238, 238, 238),
),
padding:
const EdgeInsets.only(

```

```

        top: 5,
        bottom: 5,
        right: 5,
        left: 5,
      ),
      child:
        Container(
          decoration:
            BoxDecoration(
              color:
                Colors.white,
              boxShadow: const [
                BoxShadow(
                  color:
                    Color.fromARGB(
                      255, 225, 225, 225),
                  offset:
                    Offset(0.0, 0.0),
                  blurRadius: 2.0,
                  spreadRadius: 2.0,
                ),
              ],
              borderRadius:
                BorderRadius.circular(
                  20) //
                use instead of
            ),
          BorderRadius.all(Radius.circular(20)
          ),
          // margin:
          EdgeInsets.all(10),
          padding:
            const EdgeInsets.all(20),
          child:
            Column(
              children:
                [
                  Row(
                    mainAxisAlignment:
                      MainAxisAlignment
                    .spaceBetween,
                    children: [
                      const
                        Text(
                          "Pengaturan Profile",
                          style: TextStyle(
                            fontSize: 18,
                            color: Colors.black,
                            fontWeight:
                              FontWeight.w700),

```


	child:		
Column(		Padding(	
	children:		
[		padding: const EdgeInsets.only(	
			left:
Padding(		25.0,	
//padding: const		right: 25.0,	
EdgeInsets.only(left:15.0,right:			top:
15.0,top:0,bottom: 0),		25,	
padding:		bottom: 25),	
const EdgeInsets.symmetric(		//padding:	
		EdgeInsets.symmetric(horizontal:	
horizontal: 25),		15),	
	child:		child:
TextField(		TextField(	
controller: myController,		controller: myController2,	
decoration: const InputDecoration(		decoration: const InputDecoration(	
border:		border:	
OutlineInputBorder(),		OutlineInputBorder(),	
labelText: 'Nama',		focusColor: Colors.amber,	
hintText:		hoverColor: Colors.amber,	
'Silahkan masukkan Nama Anda'),		labelText: 'No. HP',	
	)		
	),	hintText:	

```

'Silahkan masukkan No. HP Anda'),
    ),
    ),
    //
  TextButton(
    //
    onPressed: () {
      // //
      TODO FORGOT PASSWORD
      SCREEN GOES HERE
      // },
      //
      child: const Text(
        //
        'Forgot Password',
        //
        style: TextStyle(color: Colors.blue,
        fontSize: 15),
        // ),
        // ),
        Row(
          mainAxisAlignment:
            _messages2Ref
            .child("nama")
            .set(myController
              .text);
          margin:
            _messages2Ref

```



```

    ),
    ],
    ),
    ),
    padding: const
EdgeInsets.all(20.0),
    ),
    //kelelmbapan
    // Center(
    //   child: _error == null
    //     ? Text(
    //       'Button tapped
$_relay3 time${_relay3 == 1 ? " :
's'}.\\n\\n'
    //       'This includes all
devices, ever.',
    //     )
    //     : Text(
    //       'Error retrieving
button tap
count:\\n${_error!.message}',
    //     ),
    //   ),
    // floatingActionButton:
FloatingActionButton(
    //   onPressed: _increment,
    //   tooltip: 'Increment',
    //   child: const Icon(Icons.add),
    // ),
    );
    // Center(
    //   child: _error == null
    //     ? Text(

```

Lampiran-3 Listing program aplikasi map menggunakan *visual studio code*

```
import 'package:flutter/material.dart';
import
'package:flutter_map/flutter_map.dar
t';
import
'package:flutter_map/plugin_api.dart'
;
import
'package:latlong2/latlong.dart';
import
'package:location/location.dart';
import 'package:flutter/services.dart';

void main() {
  runApp(const MyApp());
}

class      MyApp      extends
StatelessWidget {
  const MyApp({super.key});
  @override
  Widget build(BuildContext context)
  {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(
        primarySwatch: Colors.red,
      ),
      home: const MyHomePage(title:
'Flutter Demo Home Page'),
    );
  }
}

class      MyHomePage      extends
StatefulWidget {
  static const String route =
'/live_location';

  const      MyHomePage({super.key,
required this.title});
  final String title;
  @override
  State<MyHomePage> createState()
=> _MyHomePageState();
}

class _MyHomePageState extends
State<MyHomePage> {
  int _counter = 0;

  void _incrementCounter() {
    setState(() {
      _counter++;
    });
  }

  LocationData? _currentLocation;
  late final MapController
_mapController;

  bool _liveUpdate = false;
  bool _permission = false;

  String? _serviceError = "";

  int      interActiveFlags      =
InteractiveFlag.all;

  final Location _locationService =
Location();

  @override
  void initState() {
    super.initState();
    _mapController      =
MapController();
    initLocationService();
  }

  void initLocationService() async {
    await
_locationService.changeSettings(
      accuracy:
LocationAccuracy.high,
      interval: 1000,
    );
  }
}
```

```

    LocationData? location;
    bool serviceEnabled;
    bool serviceRequestResult;

    try {
        serviceEnabled = await
        _locationService.serviceEnabled();

        if (serviceEnabled) {
            final permission = await
            _locationService.requestPermission()
            ;
            _permission = permission ==
            PermissionStatus.granted;

            if (_permission) {
                location = await
                _locationService.getLocation();
                _currentLocation = location;

                _locationService.onLocationChange
                d
                .listen((LocationData result)
                async {
                    if (mounted) {
                        setState() {
                            _currentLocation = result;

                            // If Live Update is
                            enabled, move map center
                            if (_liveUpdate) {
                                _mapController.move(
                                    LatLng(_currentLocation!.latitude!,
                                    _currentLocation!.longitude!),
                                    _currentLocation!.longitude!),
                                    _mapController.zoom);
                            }
                        });
                    }
                });
            } else {
                serviceRequestResult = await
                _locationService.requestService();

```

```

        if (serviceRequestResult) {
            initLocationService();
            return;
        }
    } on PlatformException catch (e) {
        debugPrint(e.toString());
        if (e.code ==
        'PERMISSION_DENIED') {
            _serviceError = e.message;
        } else if (e.code ==
        'SERVICE_STATUS_ERROR') {
            _serviceError = e.message;
        }
        location = null;
    }

    @override
    Widget build(BuildContext context)
    {
        LatLng currentLatLng;

        // Until currentLocation is initially
        updated, Widget can locate to 0, 0
        // by default or store previous
        location value to show.
        if (_currentLocation != null) {
            currentLatLng =

            LatLng(_currentLocation!.latitude!,
            _currentLocation!.longitude!);
        } else {
            currentLatLng = LatLng(0, 0);
        }
        return Scaffold(
            appBar: AppBar(
                // Here we take the value from
                the MyHomePage object that was
                created by
                // the App.build method, and
                use it to set our appbar title.
                title: Text(widget.title),
            ),
            body: FlutterMap(
                options: MapOptions(

```

```

        center:
            size: 50.0,
        ),
        ),
        ],
        ),
        ],
        ),
        nonRotatedChildren: [
        ),
        floatingActionButton:
        FloatingActionButton(
            onPressed: _incrementCounter,
            tooltip: 'Increment',
            child: const Icon(Icons.add),
        ),
        );
    }
}

        LatLng(_currentLocation!.latitude!,
        _currentLocation!.longitude!),
        zoom: 9.2,
    ),
    AttributionWidget.defaultWidget(
        source: 'OpenStreetMap
contributors',
        onSourceTapped: null,
    ),
    ],
    children: [
        TileLayer(
            urlTemplate:
'https://tile.openstreetmap.org/{z}/{x}
/{y}.png',
            userAgentPackageName:
'com.example.app',
        ),
        MarkerLayer(
            markers: [
                Marker(
                    point: LatLng(
                        _currentLocation!.latitude!,
                        _currentLocation!.longitude!),
                    width: 80,
                    height: 80,
                    builder: (context) => Icon(
                        Icons.person_pin_circle_sharp,
                        color: Colors.red,
                        size: 50.0,
                    ),
                ),
                Marker(
                    point: LatLng(-4.0215663,
119.6715051),
                    width: 80,
                    height: 80,
                    builder: (context) => Icon(
                        Icons.pin_drop_rounded,
                        color: Colors.red,

```