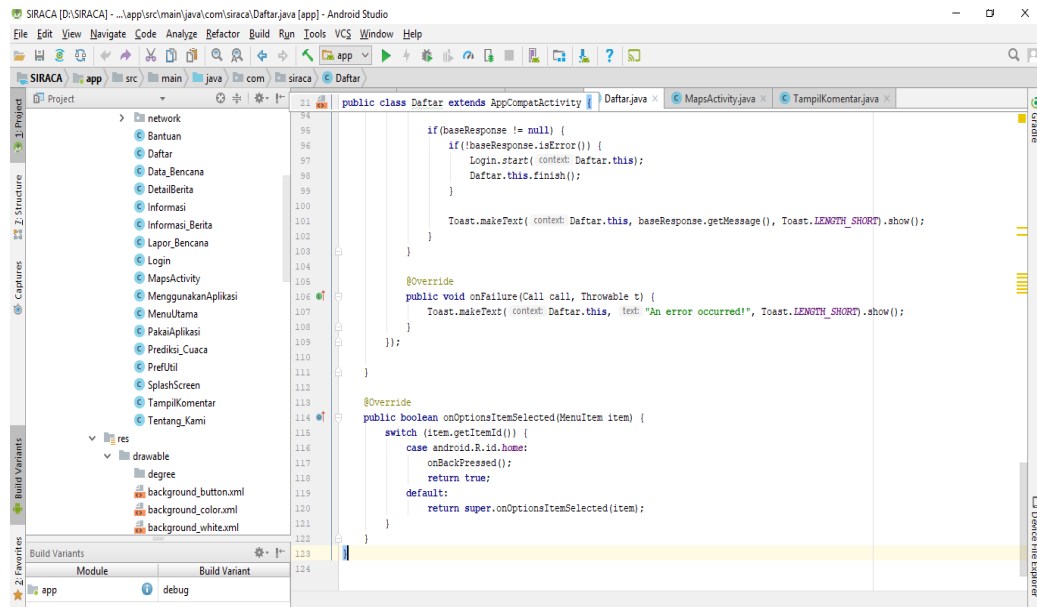


LISTING CODE

Koding di Android Studio Aplikasi SIRACA (Sistem Informasi Rawan

Bencana.



Terdapat banyak activity yang ada di program SIRACA ini dan kodingnya sebagai berikut :

1. Aktiviti menu utama

```
<?xml version="1.0" encoding="utf-8" ?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="#36dcdcdc"
tools:context=".MenuUtama">
```

```
<TextView
android:id="@+id/txtUser2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="24dp"
android:layout_marginEnd="9dp"
android:layout_marginLeft="16dp"
android:layout_marginRight="9dp"
android:layout_marginStart="16dp"
android:layout_marginTop="19dp"
android:text="@string/text18"
android:textColor="@android:color/black"
app:layout_constraintBottom_toTopOf="@+id/btnLaporan"
app:layout_constraintEnd_toStartOf="@+id/txtUser"
```

```
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

```
<Button
    android:id="@+id/btnLaporan"
    android:layout_width="150dp"
    android:layout_height="125dp"
    android:layout_marginBottom="353dp"
    android:layout_marginEnd="194dp"
    android:layout_marginLeft="16dp"
    android:layout_marginRight="194dp"
    android:layout_marginStart="16dp"
    android:layout_marginTop="33dp"
    android:background="@drawable/background_white"
    android:drawableTop="@drawable/ic_camera"
    android:paddingTop="20dp"
    android:text="@string/btn1"
    android:textColor="@android:color/black"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<Button
    android:id="@+id/btnInformasi"
    android:layout_width="150dp"
    android:layout_height="125dp"
    android:layout_marginBottom="353dp"
    android:layout_marginEnd="16dp"
    android:layout_marginLeft="28dp"
    android:layout_marginRight="16dp"
    android:layout_marginStart="28dp"
    android:layout_marginTop="33dp"
    android:background="@drawable/background_white"
    android:drawableTop="@drawable/ic_information"
    android:paddingTop="20dp"
    android:text="@string/btn2"
    android:textColor="@android:color/black"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/btnLaporan"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<Button
    android:id="@+id/btnTentang"
    android:layout_width="150dp"
    android:layout_height="125dp"
    android:layout_marginBottom="33dp"
    android:layout_marginEnd="1dp"
    android:layout_marginLeft="16dp"
    android:layout_marginRight="1dp"
    android:layout_marginStart="16dp"
    android:layout_marginTop="40dp"
    android:background="@drawable/background_white"
    android:drawableTop="@drawable/ic_about"
    android:paddingTop="20dp"
```

```

android:text="@string/btn3"
android:textColor="@android:color/black"
app:layout_constraintBottom_toTopOf="@+id/btnCuaca"
app:layout_constraintEnd_toStartOf="@+id/btnBantuan"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/btnLaporan" />

```

```

<Button
android:id="@+id/btnBantuan"
android:layout_width="150dp"
android:layout_height="125dp"
android:layout_marginBottom="32dp"
android:layout_marginEnd="16dp"
android:layout_marginLeft="23dp"
android:layout_marginRight="16dp"
android:layout_marginStart="28dp"
android:layout_marginTop="40dp"
android:background="@drawable/background_white"
android:drawableTop="@drawable/ic_help"
android:paddingTop="20dp"
android:text="@string/btn4"
android:textColor="@android:color/black"
app:layout_constraintBottom_toTopOf="@+id/btnKeluar"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@+id/btnTentang"
app:layout_constraintTop_toBottomOf="@+id/btnInformasi" />

```

```

<Button
android:id="@+id/btnCuaca"
android:layout_width="150dp"
android:layout_height="125dp"
android:layout_marginBottom="33dp"
android:layout_marginEnd="28dp"
android:layout_marginLeft="26dp"
android:layout_marginRight="28dp"
android:layout_marginStart="26dp"
android:layout_marginTop="2dp"
android:background="@drawable/background_white"
android:drawableTop="@drawable/ic_weather"
android:paddingTop="20dp"
android:text="@string/btn6"
android:textColor="@android:color/black"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/btnKeluar"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/btnTentang" />

```

```

<Button
android:id="@+id/btnKeluar"
android:layout_width="150dp"
android:layout_height="125dp"
android:layout_marginBottom="33dp"
android:layout_marginEnd="26dp"
android:layout_marginLeft="2dp"
android:layout_marginRight="26dp"
android:layout_marginStart="2dp"

```

```

        android:layout_marginTop="5dp"
        android:background="@drawable/background_white"
        android:drawableTop="@drawable/ic_logout"
        android:paddingTop="20dp"
        android:text="@string/btn5"
        android:textColor="@android:color/black"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/btnCuaca"
        app:layout_constraintTop_toBottomOf="@+id/btnBantuan" />

<TextView
    android:id="@+id/txtUser"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="24dp"
    android:layout_marginLeft="9dp"
    android:layout_marginStart="9dp"
    android:layout_marginTop="19dp"
    android:textColor="@android:color/black"
    app:layout_constraintBottom_toTopOf="@+id/btnLaporan"
    app:layout_constraintStart_toEndOf="@+id/txtUser2"
    app:layout_constraintTop_toTopOf="parent" />
</android.support.constraint.ConstraintLayout>

```

2. Activity Login

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#36dcdcdc"
    tools:context=".Login">

    <LinearLayout
        android:layout_width="342dp"
        android:layout_height="219dp"
        android:layout_marginBottom="251dp"
        android:layout_marginEnd="9dp"
        android:layout_marginLeft="9dp"
        android:layout_marginRight="9dp"
        android:layout_marginStart="9dp"
        android:background="#d2ffffff"
        android:orientation="vertical"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent">

        <EditText
            android:id="@+id/edtUsername"
            android:layout_width="match_parent"

```

```
android:layout_height="39dp"
android:layout_marginBottom="1dp"
android:layout_marginLeft="10dp"
android:layout_marginRight="10dp"
android:layout_marginTop="50dp"
android:ems="10"
android:hint="@string/text3"
android:inputType="textPersonName"
android:textColor="@android:color/black"
android:textColorHint="@android:color/holo_orange_dark"
android:textSize="14sp" />
```

```
<EditText
android:id="@+id/edtPass"
android:layout_width="match_parent"
android:layout_height="39dp"
android:layout_marginBottom="1dp"
android:layout_marginLeft="10dp"
android:layout_marginRight="10dp"
android:layout_marginTop="5dp"
android:ems="10"
android:hint="@string/text4"
android:inputType="textPassword"
android:textColor="@android:color/black"
android:textColorHint="@android:color/holo_orange_dark"
android:textSize="14sp" />
```

```
<Button
android:id="@+id/btnLogin"
android:layout_width="115dp"
android:layout_height="40dp"
android:layout_gravity="center"
android:layout_marginLeft="10dp"
android:layout_marginRight="10dp"
android:layout_marginTop="5dp"
android:background="@drawable/background_button"
android:text="@string/btn7"
android:textColor="@android:color/background_light"
android:textSize="18sp" />
```

```
<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginBottom="10dp"
android:layout_marginTop="10dp"
android:orientation="horizontal">
```

```
<TextView
android:id="@+id/textView"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_weight="1"
android:gravity="right"
android:paddingRight="2dp"
android:text="@string/text1"
android:textColor="@android:color/black" />
```

```

<TextView
    android:id="@+id/txtDaftar"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:paddingLeft="10dp"
    android:text="@string/text2"
    android:textColor="@color/colorPrimary"
    android:textStyle="bold"
</LinearLayout>
</LinearLayout>

<ImageView
    android:id="@+id/imageView"
    android:layout_width="129dp"
    android:layout_height="136dp"
    android:layout_marginEnd="138dp"
    android:layout_marginLeft="138dp"
    android:layout_marginRight="138dp"
    android:layout_marginStart="138dp"
    android:layout_marginTop="16dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:srcCompat="@drawable/bpbd_big"
</android.support.constraint.ConstraintLayout>

```

3. Activity Bantuan

```

<?xml version="1.0" encoding="utf-8" ?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#36dcdcdc"
    tools:context=".Informasi"
    android:orientation="vertical">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

        <Button
            android:id="@+id/b_Aplikasi"
            android:layout_width="200dp"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:layout_margin="10dp"

```

```

        android:background="@drawable/background_color"
        android:text="@string/btn14"
        android:textColor="@android:color/background_light" />

        <Button
            android:id="@+id/b_Kontak"
            android:layout_width="200dp"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:layout_margin="10dp"
            android:background="@drawable/background_color"
            android:text="@string/btn15"
            android:textColor="@android:color/background_light" />

        <Button
            android:id="@+id/b_Norek"
            android:layout_width="200dp"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:layout_margin="10dp"
            android:background="@drawable/background_color"
            android:text="@string/btn16"
            android:textColor="@android:color/background_light" />

        <Button
            android:id="@+id/b_Posko"
            android:layout_width="200dp"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:layout_margin="10dp"
            android:background="@drawable/background_color"
            android:text="@string/btn17"
            android:textColor="@android:color/background_light" />
    </LinearLayout>

    <FrameLayout
        android:id="@+id/container"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

    </FrameLayout>

</android.support.constraint.ConstraintLayout>

```

4. Activity Komentar

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"

```

```
android:layout_marginTop="10dp"
android:orientation="vertical"
tools:context=".Form_Komentar">
```

```
<ScrollView
android:layout_width="match_parent"
android:layout_height="match_parent">
```

```
<LinearLayout
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical">
```

```
<LinearLayout
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_margin="3dp"
android:orientation="horizontal">
```

```
<TextView
android:id="@+id/textView14"
android:layout_width="50dp"
android:layout_height="wrap_content"
android:layout_weight="1"
android:paddingLeft="3dp"
android:text="@string/text19" />
```

```
<TextView
android:id="@+id/txtJudul"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_weight="1"
android:paddingLeft="3dp"
android:text="TextView" />
</LinearLayout>
```

```
<LinearLayout
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_margin="3dp"
android:orientation="horizontal">
```

```
<TextView
android:id="@+id/textView7"
android:layout_width="50dp"
android:layout_height="wrap_content"
android:layout_weight="1"
android:paddingLeft="3dp"
android:text="@string/text11" />
```

```
<TextView
android:id="@+id/txtNama"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_weight="1"
android:paddingLeft="3dp"
```

```

        android:text="TextView" />
    </LinearLayout>

    <EditText
        android:id="@+id/edtKomentar"
        android:layout_width="match_parent"
        android:layout_height="100dp"
        android:layout_margin="3dp"
        android:background="#36dcdcdc"
        android:ems="10"
        android:hint="Isi Komentar"
        android:inputType="text"
        android:paddingLeft="3dp"
        android:textSize="12sp" />

    <Button
        android:id="@+id/btnKirim"
        android:layout_width="150dp"
        android:layout_height="40dp"
        android:layout_gravity="center_horizontal"
        android:layout_margin="5dp"
        android:background="@drawable/background_button"
        android:text="@string/btn9"
        android:textColor="@android:color/background_light"
        android:textSize="14sp" />
    </LinearLayout>
</ScrollView>

</LinearLayout>

```

5. Activity Lapor Bencana

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#36dcdcdc"
    tools:context=".Lapor_Bencana">

    <ScrollView
        android:id="@+id/scrollView2"
        android:layout_width="344dp"
        android:layout_height="0dp"
        android:layout_marginBottom="13dp"
        android:layout_marginEnd="8dp"
        android:layout_marginLeft="8dp"
        android:layout_marginRight="8dp"
        android:layout_marginStart="8dp"
        android:layout_marginTop="16dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"

```

```

app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent">

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@android:color/white"
    android:orientation="vertical">

    <android.support.constraint.ConstraintLayout
        android:layout_width="match_parent"
        android:layout_height="220dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="200dp"
            android:orientation="vertical"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.0"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.04">

            <ImageView
                android:id="@+id/imgPhoto"
                android:layout_width="match_parent"
                android:layout_height="170dp"
                android:background="@color/gainsboro"
                app:srcCompat="@drawable/ic_image_black"
                tools:ignore="VectorDrawableCompat" />

            <Button
                android:id="@+id/btnPhoto"
                android:layout_width="wrap_content"
                android:layout_height="30dp"
                android:layout_gravity="right"
                android:background="@android:color/transparent"
                android:drawableStart="@drawable/ic_photo_camera_black"
                android:paddingLeft="50dp" />

        </LinearLayout>

    </android.support.constraint.ConstraintLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="3dp"
        android:orientation="horizontal">

        <TextView
            android:id="@+id/textView10"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="3dp"

```

```
android:layout_weight="1"
android:paddingLeft="2dp"
android:text="@string/text15" />
```

```
<TextView
android:id="@+id/txtWaktu"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_margin="3dp"
android:layout_weight="1"
android:paddingLeft="2dp"
android:text="TextView"
android:textSize="12sp" />
</LinearLayout>
```

```
<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_margin="3dp"
android:orientation="horizontal">
```

```
<TextView
android:id="@+id/textView11"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_margin="3dp"
android:layout_weight="1"
android:paddingLeft="2dp"
android:text="@string/text11" />
```

```
<TextView
android:id="@+id/txtNama"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_margin="3dp"
android:layout_weight="1"
android:paddingLeft="2dp"
android:text="TextView"
android:textSize="12sp" />
</LinearLayout>
```

```
<fragment
android:id="@+id/map_utama"
android:name="com.google.android.gms.maps.SupportMapFragment"
"
android:layout_width="match_parent"
android:layout_height="200dp"
android:layout_alignParentBottom="true"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true"
android:layout_below="@+id/f"
tools:context="com.siraca.MainActivity" />
```

```
<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
```

```

        android:orientation="horizontal">

        <LinearLayout
            android:id="@+id/main_activity_container"
            android:layout_width="250dp"
            android:layout_height="wrap_content"
            android:orientation="vertical">

            <TextView
                android:id="@+id/t_latitude"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="3dp"
                android:text="TextView" />

            <TextView
                android:id="@+id/t_longitude"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="3dp"
                android:text="TextView" />
        </LinearLayout>

        <Button
            android:id="@+id/b_lokasi"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="right"
            android:layout_margin="3dp"
            android:text="Ambil Lokasi"
            android:textAllCaps="false"
            android:textSize="12sp" />
    </LinearLayout>

    <EditText
        android:id="@+id/edtDesa"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="3dp"
        android:ems="10"
        android:hint="@string/text8"
        android:inputType="text"
        android:textSize="12sp" />

    <EditText
        android:id="@+id/edtKecamatan"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="3dp"
        android:ems="10"
        android:hint="@string/text9"
        android:inputType="text"
        android:textSize="12sp" />

    <EditText
        android:id="@+id/edtBencana"
        android:layout_width="match_parent"

```

```

        android:layout_height="wrap_content"
        android:layout_margin="3dp"
        android:ems="10"
        android:hint="@string/text10"
        android:inputType="text"
        android:textSize="12sp"
    />

    <EditText
        android:id="@+id/edtBerita"
        android:layout_width="match_parent"
        android:layout_height="100dp"
        android:layout_margin="3dp"
        android:background="#36dcdcdc"
        android:ems="10"
        android:hint="@string/text12"
        android:inputType="textMultiLine"
        android:paddingLeft="2dp"
        android:textColor="@android:color/darker_gray"
        android:textSize="12sp"
    />

    <Button
        android:id="@+id/btnKirim"
        android:layout_width="150dp"
        android:layout_height="40dp"
        android:layout_gravity="center_horizontal"
        android:layout_margin="3dp"
        android:background="@drawable/background_button"
        android:text="@string/btn9"
        android:textColor="@android:color/background_light"
        android:textSize="14sp"
    />
</LinearLayout>
</ScrollView>

</android.support.constraint.ConstraintLayout>

```

6. Aktivitas Daftar

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#36dcdcdc"
    tools:context=".Daftar">

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

        <LinearLayout

```

```
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_marginBottom="10dp"
android:layout_marginLeft="10dp"
android:layout_marginRight="10dp"
android:layout_marginTop="50dp"
android:background="@drawable/background_white"
android:orientation="vertical">
```

```
<EditText
android:id="@+id/edtUsername"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginBottom="10dp"
android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
android:layout_marginTop="10dp"
android:ems="10"
android:hint="@string/text3"
android:inputType="textPersonName"
android:textColor="@android:color/black"
android:textColorHint="@color/dimgray"
android:textSize="14sp" />
```

```
<EditText
android:id="@+id/edtPassword"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginBottom="10dp"
android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
android:layout_marginTop="10dp"
android:ems="10"
android:hint="@string/text4"
android:inputType="textPassword"
android:textColor="@android:color/black"
android:textColorHint="@color/dimgray"
android:textSize="14sp" />
```

```
<EditText
android:id="@+id/edtNama"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginBottom="10dp"
android:layout_marginLeft="30dp"
android:layout_marginRight="30dp"
android:layout_marginTop="10dp"
android:ems="10"
android:hint="@string/text5"
android:inputType="textPersonName"
android:textColor="@android:color/black"
android:textColorHint="@color/dimgray"
android:textSize="14sp" />
```

```
<EditText
android:id="@+id/edtAlamat"
```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp"
        android:layout_marginLeft="30dp"
        android:layout_marginRight="30dp"
        android:layout_marginTop="10dp"
        android:ems="10"
        android:hint="@string/text6"
        android:inputType="textPostalAddress"
        android:textColor="@android:color/black"
        android:textColorHint="@color/dimgray"
        android:textSize="14sp"
    />

    <EditText
        android:id="@+id/edtPhone"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp"
        android:layout_marginLeft="30dp"
        android:layout_marginRight="30dp"
        android:layout_marginTop="10dp"
        android:ems="10"
        android:hint="@string/text7"
        android:inputType="phone"
        android:textColor="@android:color/black"
        android:textColorHint="@color/dimgray"
        android:textSize="14sp"
    />

    <Button
        android:id="@+id/btnDaftar"
        android:layout_width="120dp"
        android:layout_height="40dp"
        android:layout_gravity="center_horizontal"
        android:layout_margin="10dp"
        android:background="@drawable/background_button"
        android:text="@string/btn8"
        android:textColor="@android:color/background_light"
        android:textSize="18sp"
    />

</LinearLayout>
</ScrollView>

</android.support.constraint.ConstraintLayout>

```

7. Activity Prediksi Cuaca

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:background="@drawable/bg_color">

```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="--"
    android:id="@+id/temperaturValue"
    android:layout_centerVertical="true"
    android:layout_centerHorizontal="true"
    android:textSize="150sp"
    android:textColor="#ffffff"/>
```

```
<ImageView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/imageView"
    android:src="@drawable/degree"
    android:layout_alignTop="@+id/temperaturValue"
    android:layout_toRightOf="@+id/temperaturValue"
    android:layout_toEndOf="@+id/temperaturValue"
    android:layout_marginTop="45dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Getting data..."
    android:id="@+id/timeLabel"
    android:textColor="#b4ffffff"
    android:layout_below="@+id/temperaturValue"
    android:layout_centerHorizontal="true"/>
```

```
<TextView
    android:id="@+id/addressValue"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/timeLabel"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="20dp"
    android:text="Palembang"
    android:textColor="#ffffff"
    android:textIsSelectable="false"
    android:textSize="20sp" />
```

```
<ImageView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/iconLabel"
    android:layout_below="@+id/addressValue"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="20dp"/>
```

```
<LinearLayout
    android:orientation="horizontal"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_above="@+id/temperaturValue"
    android:layout_centerHorizontal="true"
```

```
android:id="@+id/linearLayout">
```

```
<LinearLayout  
    android:orientation="vertical"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:layout_weight="1">
```

```
<TextView  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="Humidity"  
    android:id="@+id/humidityLabel"  
    android:textColor="#b4ffffff"  
    android:gravity="center_horizontal"/>
```

```
<TextView  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="--"  
    android:id="@+id/humidityValue"  
    android:textColor="#ffffff"  
    android:textSize="20sp"  
    android:gravity="center_horizontal"/>  
</LinearLayout>
```

```
<LinearLayout  
    android:orientation="vertical"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:layout_weight="1">
```

```
<TextView  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="Precip Chance"  
    android:id="@+id/precipLabel"  
    android:textColor="#b4ffffff"  
    android:gravity="center_horizontal"/>
```

```
<TextView  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="--"  
    android:id="@+id/precipValue"  
    android:textColor="#ffffff"  
    android:textSize="20sp"  
    android:gravity="center_horizontal"/>  
</LinearLayout>  
</LinearLayout>
```

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="Fetching data..."  
    android:id="@+id/summaryLabel"
```

```
android:layout_above="@+id/linearLayout"
android:layout_centerHorizontal="true"
android:layout_marginBottom="30dp"
android:textColor="#57ad95"
android:textSize="18sp"/>
```

```
<ImageView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/refreshButton"
android:layout_above="@+id/summaryLabel"
android:layout_centerHorizontal="true"
android:src="@drawable/refresh"
android:layout_marginBottom="30dp"/>
```

```
<ProgressBar
style="?android:attr/progressBarStyleSmall"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/progressBar"
android:layout_alignBottom="@+id/refreshButton"
android:layout_alignTop="@+id/refreshButton"
android:layout_alignRight="@+id/refreshButton"
android:layout_alignEnd="@+id/refreshButton"
android:layout_alignLeft="@+id/refreshButton"
android:layout_alignStart="@+id/refreshButton"/>
```

```
<LinearLayout
android:orientation="horizontal"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_alignParentBottom="true"
android:layout_centerHorizontal="true"
android:gravity="center">
```

```
<Button
android:layout_width="wrap_content"
android:layout_height="75dp"
android:text="Hourly"
android:id="@+id/hourButton"
android:background="#78142b44"
android:layout_marginRight="3dp"
android:textColor="#ffffff"
android:layout_weight="0.2"/>
```

```
<Button
android:layout_width="wrap_content"
android:layout_height="75dp"
android:text="7 Days"
android:id="@+id/dayButton"
android:background="#78142b44"
android:textColor="#ffffff"
android:layout_weight="0.2"/>
</LinearLayout>
```

```
<TextView
```

```

android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="At "
android:id="@+id/textView"
android:textColor="#b4ffffff"
android:layout_alignTop="@+id/timeLabel"
android:layout_toLeftOf="@+id/timeLabel"
android:layout_toStartOf="@+id/timeLabel"/>

</RelativeLayout>

```

Kodingan yang java dalam aplikasi SIRACA yaitu sebagai berikut :

A. Menu utama

```

package com.siraca;
import android.content.Context;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

import com.siraca.model.User;

public class MenuUtama extends AppCompatActivity {
    Button laporan, informasi, bantuan, tentang_kami, cuaca, keluar;
    TextView user_name;

    public static void start(Context context) {
        Intent intent = new Intent(context, MenuUtama.class);
        context.startActivity(intent);
    }

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }

```

```

        setContentView(R.layout.activity_menu_utama);
        user_name = findViewById(R.id.txtUser);
        laporan = findViewById(R.id.btnLaporan);
        informasi = findViewById(R.id.btnInformasi);
        tentang_kami = findViewById(R.id.btnTentang);
        bantuan = findViewById(R.id.btnBantuan);
        cuaca = findViewById(R.id.btnCuaca);
        keluar = findViewById(R.id.btnKeluar);

        User user = PrefUtil.getUser(this, PrefUtil.USER_SESSION);
        user_name.setText(user.getData().getNama());
        user_name.setEnabled(false);

        laporan.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String nama = user_name.getText().toString();
                Intent lapor = new
                Intent(getApplicationContext(),Lapor_Bencana.class);
                lapor.putExtra("name",nama);
                startActivity(lapor);
            }
        });

        informasi.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new
                Intent(getApplicationContext(),Informasi.class));
            }
        });

        tentang_kami.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new
                Intent(getApplicationContext(),Tentang_Kami.class));
            }
        });

        bantuan.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new
                Intent(getApplicationContext(),Bantuan.class));
            }
        });

        cuaca.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new
                Intent(getApplicationContext(),Prediksi_Cuaca.class));
            }
        });

        keluar.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

```

```

        logoutAct();

        Login.start(MenuUtama.this);
        MenuUtama.this.finish();
    }
});
}
void logoutAct() {
    PrefUtil.clear(this);
}
}

```

B. Login

```

package com.siraca;
import android.content.Context;
import android.content.Intent;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

import com.siraca.model.User;
import com.siraca.network.LoginService;

import retrofit2.Call;
import retrofit2.Callback;
import retrofit2.Response;

public class Login extends AppCompatActivity {
    private EditText username, pass;
    private Button login;
    private TextView register;

    private LoginService loginService;

    public static void start(Context context) {
        Intent intent = new Intent(context, Login.class);
        context.startActivity(intent);
    }

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);
        username = (EditText) findViewById(R.id.edtUsername);
        pass = (EditText) findViewById(R.id.edtPass);
        login = (Button) findViewById(R.id.btnLogin);
        register = (TextView) findViewById(R.id.txtDaftar);

        if (isSessionLogin()) {
            MenuUtama.start(this);
        }
    }
}

```

```

login.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        loginAct();
    }
});
register.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Daftar.start(Login.this);
    }
});

}

void loginAct() {
    String USER = username.getText().toString();
    String PASS = pass.getText().toString();

    if(TextUtils.isEmpty(USER)) {
        username.setError("username tidak boleh kosong");
        return;
    }

    if(TextUtils.isEmpty(PASS)) {
        pass.setError("password tidak boleh kosong");
        return;
    }

    loginService = new LoginService(this);
    loginService.doLogin(USER, PASS, new Callback() {
        @Override
        public void onResponse(Call call, Response response) {
            User user = (User) response.body();

            if(user != null) {
                if(!user.isError()) {
                    PrefUtil.putUser(Login.this,
                        PrefUtil.USER_SESSION, user);
                    MenuUtama.start(Login.this);
                    Login.this.finish();
                }

                Toast.makeText(Login.this, user.getMessage(),
                    Toast.LENGTH_SHORT).show();
            }
        }

        @Override
        public void onFailure(Call call, Throwable t) {
            Toast.makeText(Login.this, "Error",
                Toast.LENGTH_SHORT).show();
        }
    });
}

```

```

boolean isSessionLogin() {
return PrefUtil.getUser(this, PrefUtil.USER_SESSION) != null;
}
}

```

C. Daftar

```

package com.siraca;

import android.content.Context;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import com.siraca.model.BaseResponse;
import com.siraca.network.RegisterService;

import retrofit2.Call;
import retrofit2.Callback;
import retrofit2.Response;

public class Daftar extends AppCompatActivity {

private EditText username;
private EditText password;
private EditText nama;
private EditText alamat;
private EditText telepon;

private Button daftar;

private RegisterService registerService;

public static void start(Context context) {
Intent intent = new Intent(context, Daftar.class);
context.startActivity(intent);
}

@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_daftar);
username = (EditText) findViewById(R.id.edtUsername);
password = (EditText) findViewById(R.id.edtPassword);
nama = (EditText) findViewById(R.id.edtNama);
alamat = (EditText) findViewById(R.id.edtAlamat);
telepon = (EditText) findViewById(R.id.edtPhone);
daftar = (Button) findViewById(R.id.btnDaftar);
}
}

```

```

daftar.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        registerAct();
    }
});

void registerAct() {
    String USER = username.getText().toString();
    String PASS = password.getText().toString();
    String NAMA = nama.getText().toString();
    String ALAMAT = alamat.getText().toString();
    String TELP = telepon.getText().toString();

    if(TextUtils.isEmpty(USER)) {
        username.setError("username tidak boleh kosong");
        return;
    }

    if(TextUtils.isEmpty(PASS)) {
        password.setError("password tidak boleh kosong");
        return;
    }

    if(TextUtils.isEmpty(NAMA)) {
        nama.setError("nama tidak boleh kosong");
        return;
    }

    if(TextUtils.isEmpty(ALAMAT)) {
        alamat.setError("alamat tidak boleh kosong");
        return;
    }

    if(TextUtils.isEmpty(TELP)) {
        telepon.setError("telepon tidak boleh kosong");
        return;
    }

    registerService = new RegisterService(this);
    registerService.doRegister(USER, PASS, NAMA, ALAMAT, TELP, new
    Callback() {
        @Override
        public void onResponse(Call call, Response response) {
            BaseResponse baseResponse = (BaseResponse)
            response.body();

            if(baseResponse != null) {
                if(!baseResponse.isError()) {
                    Login.start(Daftar.this);
                    Daftar.this.finish();
                }

                Toast.makeText(Daftar.this,
                baseResponse.getMessage(), Toast.LENGTH_SHORT).show();
            }
        }
    });
}

```

```

        }
    }

    @Override
    public void onFailure(Call call, Throwable t) {
        Toast.makeText(Daftar.this, "An error occurred!",
            Toast.LENGTH_SHORT).show();
    }
});

}

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    switch (item.getItemId()) {
        case android.R.id.home:
            onBackPressed();

    return true;
    default:
    return super.onOptionsItemSelected(item);
    }
}
}

```

D.Bantuan

```

package com.siraca;

import android.app.TabActivity;
import android.content.Intent;
import android.graphics.Color;
import android.support.v4.app.FragmentManager;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TabHost;
import android.widget.TextView;

import com.siraca.fragment.Aplikasi;
import com.siraca.fragment.Kontak;
import com.siraca.fragment.Norek;
import com.siraca.fragment.Posko;

public class Bantuan extends AppCompatActivity {
    Button aplikasi, kontak, norek, posko;
    FragmentManager manager = getSupportFragmentManager();

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_bantuan);

        aplikasi = findViewById(R.id.b_Aplikasi);
        kontak = findViewById(R.id.b_Kontak);
        norek = findViewById(R.id.b_Norek);
    }
}

```

```

posko = findViewById(R.id.b_Posko);

aplikasi.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        manager.beginTransaction().replace(R.id.container, new
        Aplikasi()).commit();
        // startActivity(new
        Intent (Informasi.this, Informasi_Berita.class));
    }

});

kontak.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        manager.beginTransaction().replace(R.id.container, new
        Kontak()).commit();
        // startActivity(new
        Intent (Informasi.this, Informasi_Berita.class));
    }

});

norek.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        manager.beginTransaction().replace(R.id.container, new
        Norek()).commit();
        // startActivity(new
        Intent (Informasi.this, Informasi_Berita.class));
    }

});

posko.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        manager.beginTransaction().replace(R.id.container, new
        Posko()).commit();
        // startActivity(new
        Intent (Informasi.this, Informasi_Berita.class));
    }

});
}
}

```

E. Detail Berita

```

package com.siraca;

import android.app.AlertDialog;
import android.app.ProgressDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.os.Handler;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

```

```

import android.text.TextUtils;
import android.util.Log;
import android.view.LayoutInflater;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

import com.android.volley.Request;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.StringRequest;
import com.siraca.model.User;
import com.siraca.network.config.AppController;
import com.siraca.network.config.Config;

import org.json.JSONException;
import org.json.JSONObject;

import java.util.HashMap;
import java.util.Map;

public class DetailBerita extends AppCompatActivity {
    TextView tanggal, judul, isi, komentar,
    tampil, nama_pelapor, judul_komentar;
    EditText isi_komentar;
    ProgressDialog pd;
    AlertDialog.Builder dialog;
    LayoutInflater inflater;
    View dialogView;
    String isiKomen;

    private Handler handler = new Handler();

    private static final String TAG =
    Lapor_Bencana.class.getSimpleName();

    private String UPLOAD_URL = Config.API_KOMENTAR;

    private static final String TAG_SUCCESS = "success";
    private static final String TAG_MESSAGE = "message";
    private String KEY_IMAGE = "image";
    // private String KEY_TGL = "tgl komentar";
    private String KEY_JUDUL = "judul_berita";
    private String KEY_ISI = "isi_komentar";
    private String KEY_NAMA = "nama_user";

    String tag_json_obj = "json_obj_req";

    int success;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_detail_berita);
        //ambil data dari intent
        Intent data = getIntent();
        Bundle bundle = getIntent().getExtras();

```

```

final int detail_data = data.getIntExtra("detail",0);
    String i_tgl = data.getStringExtra("tgl_berita");
    String i_judul = data.getStringExtra("judul_berita");
    String i_isi = data.getStringExtra("isi_berita");

komentar = findViewById(R.id.txt_komentar);
tampil = findViewById(R.id.txt_tampil);

tanggal = findViewById(R.id.txt_tanggal);
judul = findViewById(R.id.txt_judul);
isi = findViewById(R.id.txt_isi);
pd = new ProgressDialog(DetailBerita.this);

//      User user = PrefUtil.getUser(this,
PrefUtil.USER_SESSION);
//      nama_pelapor.setText(user.getData().getNama());

//      judul_komentar = judul.setText(i_judul);

tanggal.setText(i_tgl);
judul.setText(i_judul);
isi.setText(i_isi);

//      nama_pelapor.setText(bundle.getString("name"));

komentar.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
    formKomentar();
}
});

tampil.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
    startActivity(new
Intent(getApplicationContext(),TampilKomentar.class));
}
});

private void formKomentar(){
dialog = new AlertDialog.Builder(DetailBerita.this);
inflater = getLayoutInflater();
dialogView = inflater.inflate(R.layout.form_komentar, null);
dialog.setView(dialogView);
dialog.setCancelable(true);
dialog.setTitle("Form Komentar");

    Intent data = getIntent();
    String i_tgl = data.getStringExtra("tgl_berita");
    String i_judul = data.getStringExtra("judul_berita");
    String i_isi = data.getStringExtra("isi_berita");

judul_komentar = findViewById(R.id.txtJudul);

```

```

nama_pelapor = findViewById(R.id.txtNama);
isi_komentar = (EditText)
dialogView.findViewById(R.id.edtKomentar);
judul_komentar.setText(data.getStringExtra("judul_berita"));

//          judul_komentar.setText(judulBerita);
//          kosong();

dialog.setPositiveButton("Kirim", new
DialogInterface.OnClickListener() {

@Override
public void onClick(DialogInterface dialog, int which) {
    isiKomentar();
}

});

dialog.setNegativeButton("Batal", new
DialogInterface.OnClickListener() {

@Override
public void onClick(DialogInterface dialog, int which) {
    dialog.dismiss();
}

});

dialog.show();
}

private void isiKomentar() {

final String JUDUL = judul_komentar.getText().toString();
final String NAMA = nama_pelapor.getText().toString();
final String ISI = isi_komentar.getText().toString();

if(TextUtils.isEmpty(ISI)) {
isi_komentar.setError("isi komentar tidak boleh kosong");
return;
}
final ProgressDialog loading = ProgressDialog.show(this,
"Uploading...", "Please wait...", false, false);

StringRequest stringRequest = new
StringRequest(Request.Method.POST, UPLOAD_URL,
new com.android.volley.Response.Listener<String>() {
@Override
public void onResponse(String response) {
    Log.e(TAG, "Response: " +
response.toString());

try {
                JSONObject jsonObj = new
JSONObject(response);
success = jsonObj.getInt(TAG_SUCCESS);

if (success == 1) {

```

```

        Log.e("v Add", jsonObj.toString());

        Toast.makeText(DetailBerita.this,
            jsonObj.getString(TAG_MESSAGE), Toast.LENGTH_LONG).show();

        //                hapus();

    } else {

        Toast.makeText(DetailBerita.this,
            jsonObj.getString(TAG_MESSAGE), Toast.LENGTH_LONG).show();
    }
    } catch (JSONException e) {
        e.printStackTrace();
    }

    //menghilangkan progress dialog
    loading.dismiss();
    },

    new com.android.volley.Response.ErrorListener() {
        @Override
        public void onErrorResponse(VolleyError error) {
            //menghilangkan progress dialog
            loading.dismiss();

            //menampilkan toast
            Toast.makeText(DetailBerita.this, error.getMessage().toString(),
                Toast.LENGTH_LONG).show();
            Log.e(TAG, error.getMessage().toString());
        }
    }) {

        @Override
        protected Map<String, String> getParams() {
            //membuat parameters
            Map<String, String> params = new HashMap<>();

            //menambah parameter yang di kirim ke web servis
            params.put(KEY_JUDUL, JUDUL);
            params.put(KEY_NAMA, NAMA);
            params.put(KEY_ISI, ISI);

            //kembali ke parameters
            Log.e(TAG, "" + params);
            return params;
        }
    };

    ApplicationController.getInstance().addToRequestQueue(stringRequest,
        tag_json_obj);

}
}

```

F. Informasi

```

package com.siraca;

import android.content.Intent;
import android.support.v4.app.FragmentManager;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

import com.siraca.fragment.Grafik;
import com.siraca.fragment.Migitasi;

public class Informasi extends AppCompatActivity {
    Button berita, migitasi, data_bencana;
    FragmentManager manager = getSupportFragmentManager();
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_informasi);

        berita = findViewById(R.id.b_Berita);
        migitasi = findViewById(R.id.b_Migitasi);
        data_bencana = findViewById(R.id.b_Data);

        berita.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                //
                manager.beginTransaction().replace(R.id.container, new
Berita_Fragment()).commit();
                startActivity(new Intent(Informasi.this, Informasi_Berita.class));
            }
        });

        data_bencana.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                manager.beginTransaction().replace(R.id.container, new
                Grafik()).commit();
                //
                startActivity(new
Intent(Informasi.this, Informasi_Berita.class));
            }
        });

        migitasi.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                manager.beginTransaction().replace(R.id.container, new
                Migitasi()).commit();
                //
                startActivity(new
Intent(Informasi.this, Informasi_Berita.class));
            }
        });
    }
}

```

G. Informasi Berita

```
package com.siraca;

import android.app.ProgressDialog;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.LinearLayoutManager;
import android.support.v7.widget.RecyclerView;
import android.util.Log;

import com.android.volley.Request;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.JsonArrayRequest;
import com.siraca.model.berita.AdapterData;
import com.siraca.model.berita.DataModel;
import com.siraca.network.config.AppController;
import com.siraca.network.config.Config;

import org.json.JSONArray;
import org.json.JSONException;
import org.json.JSONObject;

import java.util.ArrayList;
import java.util.List;

public class Informasi_Berita extends AppCompatActivity {
    RecyclerView berita;
    RecyclerView.Adapter mAdapter;
    RecyclerView.LayoutManager mManager;
    List<DataModel>mItems;
    ProgressDialog pd;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_informasi_berita);

        berita = (RecyclerView) findViewById(R.id.r_berita);
        pd = new ProgressDialog(Informasi_Berita.this);
        mItems = new ArrayList<>();

        loadJson();

        mManager = new
        LinearLayoutManager(Informasi_Berita.this, LinearLayoutManager.VERTICAL, false);
        berita.setLayoutManager(mManager);
        mAdapter = new AdapterData(Informasi_Berita.this, mItems);
        berita.setAdapter(mAdapter);
    }

    private void loadJson()
    {
        pd.setMessage("Mengambil Data");
        pd.setCancelable(false);
```

```

pd.show();

JSONArrayRequest reqData = new
JSONArrayRequest(Request.Method.POST, Config.API_BERITA, null,
new Response.Listener<JSONArray>() {
@Override
public void onResponse(JSONArray response) {
pd.cancel();
Log.d("volley", "response : " +
response.toString());
for(int i = 0 ; i < response.length(); i++)
{
try {
JSONObject data =
response.getJSONObject(i);
DataModel md = new DataModel();

md.setTanggal(data.getString("tgl_berita"));

md.setJudul(data.getString("judul_berita"));
//md.setIsi(data.getString("isi_berita"));

//md.setGambar(data.getString("gambar"));
mItems.add(md);
} catch (JSONException e) {
e.printStackTrace();
}
}
mAdapter.notifyDataSetChanged();
},
new Response.ErrorListener() {
@Override
public void onErrorResponse(VolleyError error) {
pd.cancel();
Log.d("volley", "error : " +
error.getMessage());
}
});

AppController.getInstance().addToRequestQueue(reqData);
}
}

```

H. Lapor Bencana

```

package com.siraca;

import android.Manifest;
import android.app.ProgressDialog;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.graphics.Bitmap;
import android.graphics.BitmapFactory;

```

```
import android.location.Location;

import android.location.LocationListener;
import android.net.Uri;
import android.os.Build;
import android.os.Handler;
import android.provider.MediaStore;
import android.support.annotation.NonNull;
import android.support.annotation.Nullable;
import android.support.v4.app.ActivityCompat;
import android.support.v4.content.ContextCompat;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import android.util.Base64;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import com.android.volley.Request;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.StringRequest;
import com.google.android.gms.common.ConnectionResult;
import com.google.android.gms.common.api.GoogleApiClient;
import com.google.android.gms.location.LocationRequest;
import com.google.android.gms.location.LocationServices;
import com.google.android.gms.maps.CameraUpdateFactory;
import com.google.android.gms.maps.GoogleMap;
import com.google.android.gms.maps.OnMapReadyCallback;
import com.google.android.gms.maps.model.CameraPosition;
import com.google.android.gms.maps.model.LatLng;
import com.google.android.gms.maps.model.Marker;

import com.siraca.model.BaseResponse;
import com.siraca.network.LaporBencanaService;
import com.siraca.network.config.AppController;
import com.siraca.network.config.Config;

import org.json.JSONException;
import org.json.JSONObject;

import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.HashMap;
import java.util.Map;

import retrofit2.Call;
import retrofit2.Callback;
import retrofit2.Response;
```

```

public class Lapor_Bencana extends AppCompatActivity implements
    GoogleApiClient.ConnectionCallbacks,
    GoogleApiClient.OnConnectionFailedListener {

    private Location mLastLocation;
    private GoogleApiClient mGoogleApiClient;

    EditText desa, kecamatan, jenis_bencana, isi_berita;
    TextView waktu, nama_pelapor, latitude, longitude;
    Button kirim, photo, lokasi;
    ImageView gambar_laporan;
    Double LAT,LNG;
    private Handler handler = new Handler();

    // private LaporBencanaService laporBencanaService;
    Bitmap bitmap, decoded;
    int success;
    int PICK_IMAGE_REQUEST = 1;
    int bitmap_size = 60; // range 1 - 100

    private static final String TAG =
        Lapor_Bencana.class.getSimpleName();

    private String UPLOAD_URL = Config.API_LAPOR;

    private static final String TAG_SUCCESS = "success";
    private static final String TAG_MESSAGE = "message";
    private String KEY_IMAGE = "image";
    private String KEY_TGL = "tgl_lapor";
    private String KEY_NAMA = "nama_pelapor";
    private String KEY_DESA = "desa";
    private String KEY_KEC = "kecamatan";
    private String KEY_BENCANA = "jenis_bencana";
    private String KEY_ISI = "isi_laporan";

    String tag_json_obj = "json_obj_req";

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_lapor_bencana);
        Bundle bundle = getIntent().getExtras();

        handler.postDelayed(runnable, 1000);

        desa = findViewById(R.id.edtDesa);
        kecamatan = findViewById(R.id.edtKecamatan);
        jenis_bencana = findViewById(R.id.edtBencana);
        nama_pelapor = findViewById(R.id.txtNama);
        isi_berita = findViewById(R.id.edtBerita);
        waktu = findViewById(R.id.txtWaktu);
        gambar_laporan = findViewById(R.id.imgPhoto);
        photo = findViewById(R.id.btnPhoto);
        kirim = findViewById(R.id.btnKirim);
    }

```

```

latitude = findViewById(R.id.t_latitude);
longitude = findViewById(R.id.t_longitude);

//          latitude.setText(Double.toString(LAT));
//          longitude.setText(Double.toString(LNG));
lokasi = findViewById(R.id.b_lokasi);

nama_pelapor.setText(bundle.getString("name"));

 kirim.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
        laporanAct();
        hapus();
    }
});

photo.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
        showFileChooser();
    }
});

        setupGoogleAPI();
 lokasi.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
LAT = mLastLocation.getLatitude();
LNG = mLastLocation.getLongitude();
    }
});

    }

private void setupGoogleAPI() {
// initialize Google API Client
mGoogleApiClient = new GoogleApiClient
        .Builder(this)
        .addApi(LocationServices.API)
        .addConnectionCallbacks(this)
        .addOnConnectionFailedListener(this)
        .build();
    }

public String getStringImage(Bitmap bmp) {
    ByteArrayOutputStream baos = new ByteArrayOutputStream();
    bmp.compress(Bitmap.CompressFormat.JPEG, bitmap_size,
baos);
    byte[] imageBytes = baos.toByteArray();
    String encodedImage = Base64.encodeToString(imageBytes,
Base64.DEFAULT);
    return encodedImage;
}

private Runnable runnable = new Runnable() {

```

```

@Override
public void run() {
    Calendar c1 = Calendar.getInstance();
    SimpleDateFormat sdf1 = new SimpleDateFormat("yyyy-M-d
hh:mm:s a");
    //SimpleDateFormat sdf1 = new SimpleDateFormat("HH:mm:ss");
    String strdate1 = sdf1.format(c1.getTime());
    waktu.setText(strdate1);
    }
};

private void laporanAct() {

    final String TGL = waktu.getText().toString();
    final String NAMA = nama_pelapor.getText().toString();
    final String DESA = desa.getText().toString();
    final String KEC = kecamatan.getText().toString();
    final String JENIS = jenis_bencana.getText().toString();
    final String ISI = isi_berita.getText().toString();

    if (TextUtils.isEmpty(DESA)) {
        desa.setError("nama desa tidak boleh kosong");
        return;
    }

    if (TextUtils.isEmpty(KEC)) {
        kecamatan.setError("nama kecamatan tidak boleh kosong");
        return;
    }

    if (TextUtils.isEmpty(JENIS)) {
        jenis_bencana.setError("jenis bencana tidak boleh kosong");
        return;
    }

    if (TextUtils.isEmpty(ISI)) {
        isi_berita.setError("isi berita tidak boleh kosong");
        return;
    }

    final ProgressDialog loading = ProgressDialog.show(this,
        "Uploading...", "Please wait...", false, false);

    StringRequest stringRequest = new
    StringRequest(Request.Method.POST, UPLOAD_URL,
    new com.android.volley.Response.Listener<String>() {
        @Override
        public void onResponse(String response) {
            Log.e(TAG, "Response: " +
            response.toString());

            try {
                JSONObject jsonObj = new
                JSONObject(response);
                success = jsonObj.getInt(TAG_SUCCESS);

                if (success == 1) {

```

```

        Log.e("v Add", jsonObj.toString());

        Toast.makeText(Lapor_Bencana.this,
jObj.getString(TAG_MESSAGE), Toast.LENGTH_LONG).show();

        hapus();

        } else {
            Toast.makeText(Lapor_Bencana.this,
jObj.getString(TAG_MESSAGE), Toast.LENGTH_LONG).show();
        }
    } catch (JSONException e) {
        e.printStackTrace();
    }

    //menghilangkan progress dialog
    loading.dismiss();
    },
    new com.android.volley.Response.ErrorListener() {
        @Override
        public void onErrorResponse(VolleyError error) {
            //menghilangkan progress dialog
            loading.dismiss();

            //menampilkan toast
            Toast.makeText(Lapor_Bencana.this, error.getMessage().toString(),
            Toast.LENGTH_LONG).show();
            Log.e(TAG, error.getMessage().toString());
        }
    }) {

        @Override
        protected Map<String, String> getParams() {
            //membuat parameters
            Map<String, String> params = new HashMap<>();

            //menambah parameter yang di kirim ke web servis
            params.put(KEY_IMAGE, getStringImage(decoded));
            params.put(KEY_TGL, TGL);
            params.put(KEY_NAMA, NAMA);
            params.put(KEY_DESA, DESA);
            params.put(KEY_KEC, KEC);
            params.put(KEY_BENCANA, JENIS);
            params.put(KEY_ISI, ISI);

            //kembali ke parameters
            Log.e(TAG, "" + params);
            return params;
        }
    };

    ApplicationController.getInstance().addToRequestQueue(stringRequest,
    tag_json_obj);
}

```

```

private void showFileChooser() {
    Intent intent = new Intent();
    intent.setType("image/*");
    intent.setAction(Intent.ACTION_GET_CONTENT);
    startActivityForResult(Intent.createChooser(intent,
        "Select Picture"), PICK_IMAGE_REQUEST);
}

@Override
protected void onActivityResult(int requestCode, int resultCode,
    Intent data) {
    super.onActivityResult(requestCode, resultCode, data);

    if (requestCode == PICK_IMAGE_REQUEST && resultCode == RESULT_OK
        && data != null && data.getData() != null) {
        Uri filePath = data.getData();

        try {
            //mengambil gambar dari Gallery
            bitmap = MediaStore.Images.Media.getBitmap(getContentResolver(),
                filePath);
            // 512 adalah resolusi tertinggi setelah image di resize, bisa di
            ganti.
            setToImageView(getResizedBitmap(bitmap, 512));
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}

private void hapus() {
    desa.setText("");
    kecamatan.setText("");
    jenis_bencana.setText("");
    isi_berita.setText("");
    gambar_laporan.setImageResource(R.drawable.ic_image_black);
}

private void setToImageView(Bitmap bmp) {
    //compress image
    ByteArrayOutputStream bytes = new ByteArrayOutputStream();
    bmp.compress(Bitmap.CompressFormat.JPEG, bitmap_size,
        bytes);
    decoded = BitmapFactory.decodeStream(new
        ByteArrayInputStream(bytes.toByteArray()));

    //menampilkan gambar yang dipilih dari camera/gallery ke ImageView
    gambar_laporan.setImageBitmap(decoded);
}

// fungsi resize image
public Bitmap getResizedBitmap(Bitmap image, int maxSize) {
    int width = image.getWidth();
    int height = image.getHeight();

    float bitmapRatio = (float) width / (float) height;
    if (bitmapRatio > 1) {

```

```

        width = maxSize;
        height = (int) (width / bitmapRatio);
    } else {
        height = maxSize;
        width = (int) (height * bitmapRatio);
    }
}
return Bitmap.createScaledBitmap(image, width, height, true);
}

@Override
protected void onStart() {
    super.onStart();
    // connect ke Google API Client ketika start
    mGoogleApiClient.connect();
}

@Override
protected void onStop() {
    super.onStop();
    // disconnect ke Google API Client ketika activity stopped
    mGoogleApiClient.disconnect();
}

@Override
public void onConnected(@Nullable Bundle bundle) {
    if (ActivityCompat.checkSelfPermission(this,
        Manifest.permission.ACCESS_FINE_LOCATION) !=
        PackageManager.PERMISSION_GRANTED &&
        ActivityCompat.checkSelfPermission(this,
        Manifest.permission.ACCESS_COARSE_LOCATION) !=
        PackageManager.PERMISSION_GRANTED) {
        // TODO: Consider calling
        //    ActivityCompat#requestPermissions
        // here to request the missing permissions, and then
        // overriding
        //    public void onRequestPermissionsResult(int
        requestCode, String[] permissions,
        //                                     int[]
        grantResults)
        // to handle the case where the user grants the
        permission. See the documentation
        // for ActivityCompat#requestPermissions for more
        details.
        return;
    }
    mLastLocation =
        LocationServices.FusedLocationApi.getLastLocation(mGoogleApiClient
        );
    if (mLastLocation != null) {
        Toast.makeText(this, " Connected to Google Location
        API", Toast.LENGTH_LONG).show();
    }
}

@Override
public void onConnectionSuspended(int i) {

```

```

    }

    @Override
    public void onConnectionFailed(@NonNull ConnectionResult
    connectionResult) {

    }
}

```

I. MapsActivity

```

package com.siraca;

import android.content.pm.PackageManager;
import android.graphics.Color;
import android.location.Location;
import android.os.Build;
import android.support.annotation.NonNull;
import android.support.annotation.Nullable;
import android.support.v4.app.ActivityCompat;
import android.support.v4.app.FragmentActivity;
import android.os.Bundle;
import android.support.v4.content.ContextCompat;
import android.widget.Toast;

import com.directions.route.AbstractRouting;
import com.directions.route.Route;
import com.directions.route.RouteException;
import com.directions.route.Routing;
import com.directions.route.RoutingListener;
import com.google.android.gms.common.ConnectionResult;
import com.google.android.gms.common.api.GoogleApiClient;
import com.google.android.gms.location.LocationListener;
import com.google.android.gms.location.LocationRequest;
import com.google.android.gms.location.LocationServices;
import com.google.android.gms.maps.CameraUpdateFactory;
import com.google.android.gms.maps.GoogleMap;
import com.google.android.gms.maps.OnMapReadyCallback;
import com.google.android.gms.maps.SupportMapFragment;
import com.google.android.gms.maps.model.BitmapDescriptorFactory;
import com.google.android.gms.maps.model.CameraPosition;
import com.google.android.gms.maps.model.LatLng;
import com.google.android.gms.maps.model.Marker;
import com.google.android.gms.maps.model.MarkerOptions;
import com.google.android.gms.maps.model.PolylineOptions;

import java.util.ArrayList;

public class MapsActivity extends FragmentActivity implements
    OnMapReadyCallback,
        GoogleApiClient.ConnectionCallbacks,
        GoogleApiClient.OnConnectionFailedListener,
    LocationListener {

    private GoogleMap mMap;

```

```

        GoogleApiClient mGoogleApiClient;
private LocationRequest mLocationRequest;
private Marker mCurrLocationMarker;
private Location mLastLocation;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_maps);
    // Obtain the SupportMapFragment and get notified when the map is
    // ready to be used.
    SupportMapFragment mapFragment = (SupportMapFragment)
    getSupportFragmentManager()
        .findFragmentById(R.id.map);
    mapFragment.getMapAsync(this);

}

/**
 * Manipulates the map once available.
 * This callback is triggered when the map is ready to be
    used.
 * This is where we can add markers or lines, add listeners or
    move the camera. In this case,
 * we just add a marker near Sydney, Australia.
 * If Google Play services is not installed on the device, the
    user will be prompted to install
 * it inside the SupportMapFragment. This method will only be
    triggered once the user has
 * installed Google Play services and returned to the app.
 */
@Override
public void onMapReady(GoogleMap googleMap) {
    mMap = googleMap;

    //Memulai Google Play Services
    if (android.os.Build.VERSION.SDK_INT >= Build.VERSION_CODES.M) {
        if (ContextCompat.checkSelfPermission(this,
            android.Manifest.permission.ACCESS_FINE_LOCATION)
            == PackageManager.PERMISSION_GRANTED) {
                buildGoogleApiClient();
            mMap.setMyLocationEnabled(true);
        }
    }
    else {
        buildGoogleApiClient();
        mMap.setMyLocationEnabled(true);
    }
}

private void buildGoogleApiClient() {
    mGoogleApiClient = new
    GoogleApiClient.Builder(this).addConnectionCallbacks(this).

```

```

addOnConnectionFailedListener(this).addApi(LocationServices.API).build();
mGoogleApiClient.connect();
    }

    @Override
    public void onConnected(@Nullable Bundle bundle) {
        LocationRequest mLocationRequest = new LocationRequest();
        mLocationRequest.setInterval(1000);
        mLocationRequest.setFastestInterval(1000);

        mLocationRequest.setPriority(LocationRequest.PRIORITY_BALANCED_POWER_ACCURACY);
        if (ContextCompat.checkSelfPermission(this,
            android.Manifest.permission.ACCESS_FINE_LOCATION)
            == PackageManager.PERMISSION_GRANTED) {

            LocationServices.FusedLocationApi.requestLocationUpdates(mGoogleApiClient, mLocationRequest, this);
        }
    }

    @Override
    public void onConnectionSuspended(int i) {

    }

    @Override
    public void onConnectionFailed(@NonNull ConnectionResult
        connectionResult) {

    }

    @Override
    public void onLocationChanged(Location location) {
        mLastLocation = location;
        if (mCurrLocationMarker != null) {
            mCurrLocationMarker.remove();
        }
        LatLng latLng = new LatLng(location.getLatitude(),
            location.getLongitude());

        CameraPosition cameraPosition = new
            CameraPosition.Builder().target(new LatLng(latLng.latitude,
                latLng.longitude)).zoom(16).build();

        mMap.animateCamera(CameraUpdateFactory.newCameraPosition(cameraPosition));

        //menghentikan pembaruan lokasi
        if (mGoogleApiClient != null) {

            LocationServices.FusedLocationApi.removeLocationUpdates(mGoogleApiClient, this);
        }
    }

```

```

    }

    public static final int MY_PERMISSIONS_REQUEST_LOCATION = 99;
    public boolean checkLocationPermission() {
        if (ContextCompat.checkSelfPermission(this,
            android.Manifest.permission.ACCESS_FINE_LOCATION)
            != PackageManager.PERMISSION_GRANTED) {
            if (ActivityCompat.shouldShowRequestPermissionRationale(this,
                android.Manifest.permission.ACCESS_FINE_LOCATION)) {
                ActivityCompat.requestPermissions(this,
                    new String[]{android.Manifest.permission.ACCESS_FINE_LOCATION},
                    MY_PERMISSIONS_REQUEST_LOCATION);
            } else {
                ActivityCompat.requestPermissions(this,
                    new String[]{android.Manifest.permission.ACCESS_FINE_LOCATION},
                    MY_PERMISSIONS_REQUEST_LOCATION);
            }
            return false;
        } else {
            return true;
        }
    }

    @Override
    public void onRequestPermissionsResult(int requestCode, String
        permissions[], int[] grantResults) {
        switch (requestCode) {
            case MY_PERMISSIONS_REQUEST_LOCATION: {
                if (grantResults.length > 0
                    && grantResults[0] == PackageManager.PERMISSION_GRANTED) {

                    // Izin diberikan.
                    if (ContextCompat.checkSelfPermission(this,
                        android.Manifest.permission.ACCESS_FINE_LOCATION)
                            == PackageManager.PERMISSION_GRANTED)
                    {

                        if (mGoogleApiClient == null) {
                            buildGoogleApiClient();
                        }
                        mMap.setMyLocationEnabled(true);
                    }

                } else {

                    // Izin ditolak.
                    Toast.makeText(this, "permission denied",
                        Toast.LENGTH_LONG).show();
                }
            }
        }
    }
}

```

J. Prediksi Cuaca

```
package com.siraca;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.graphics.drawable.Drawable;
import android.net.ConnectivityManager;
import android.net.NetworkInfo;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.ProgressBar;
import android.widget.TextView;
import com.siraca.model.cuaca.UI.AlertDialogFragment;
import com.siraca.model.cuaca.UI.DailyActivity;
import com.siraca.model.cuaca.UI.HourlyActivity;
import com.siraca.model.cuaca.model.Current;
import com.siraca.model.cuaca.model.Day;
import com.siraca.model.cuaca.model.Forecast;
import com.siraca.model.cuaca.model.Hour;
import org.json.JSONArray;
import org.json.JSONException;
import org.json.JSONObject;
import java.io.IOException;
import okhttp3.Call;
import okhttp3.Callback;
import okhttp3.OkHttpClient;
import okhttp3.Request;
import okhttp3.Response;

public class Prediksi_Cuaca extends AppCompatActivity {

    private static final String TAG =
Prediksi_Cuaca.class.getSimpleName();
    public static final String DAILY_FORECAST = "DAILY_FORECAST";
    public static final String HOURLY_FORECAST = "HOURLY_FORECAST";
    public static final String LOCATION_FORMAT = "LOCATION_FORMAT";
    private static final String PREF_FILE =
"net.renotekno.cuacaku.sharedpreferences";
    private static final String SAVED_TEMPERATURE =
"saved_temperature";
    private static final String SAVED_TIME = "saved_time";
    private static final String SAVED_HUMIDITY = "saved_humidity";
    private static final String SAVED_PRECIP = "saved_precip";
    private static final String SAVED_SUMMARY = "saved_summary";
    private static final String SAVED_IMAGE = "saved_image";
    private String apiKey;
    private String connection;
    private double latitude;
    private double longitude;
    private Forecast mForecast;
    private Current mCurrent;
```

```

private TextView mTemperatureValue;
private TextView mTimeValue;
private TextView mHumidityValue;
private TextView mPrecipValue;
private TextView mSummaryLabel;
private ImageView mIcon;
private ImageView mRefreshButton;
private ProgressBar mProgressBar;
private Button mDayButton;
private Button mHourButton;
private SharedPreferences mSharedPreferences;
private SharedPreferences.Editor mEditor;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_prediksi_cuaca);
    mSharedPreferences = getSharedPreferences(PREF_FILE,
    Context.MODE_PRIVATE);
    mEditor = mSharedPreferences.edit();
    Long savedLongHumidity =
    mSharedPreferences.getLong(SAVED_HUMIDITY, 0);
    double savedHumidityValue =
    Double.longBitsToDouble(savedLongHumidity);

    mTemperatureValue = (TextView) findViewById(R.id.temperaturValue);
    mTimeValue = (TextView) findViewById(R.id.timeLabel);
    mHumidityValue = (TextView) findViewById(R.id.humidityValue);
    mPrecipValue = (TextView) findViewById(R.id.precipValue);
    mSummaryLabel = (TextView) findViewById(R.id.summaryLabel);
    mIcon = (ImageView) findViewById(R.id.iconLabel);
    mRefreshButton = (ImageView) findViewById(R.id.refreshButton);
    mProgressBar = (ProgressBar) findViewById(R.id.progressBar);
    mDayButton = (Button) findViewById(R.id.dayButton);
    mHourButton = (Button) findViewById(R.id.hourButton);
    /* mAdress = (TextView) findViewById(R.id.addressValue); */

    // LATITUDE dan LONGITUDE
    apiKey = "9189d3986a8dc736ebbc9882036d49c2";
    latitude = -3.2720271;
    longitude = 103.0071712;
    connection = "https://api.forecast.io/forecast/" + apiKey + "/" +
    latitude + "," + longitude;

    // Display saved data
    mHumidityValue.setText(savedHumidityValue + "");
    mTemperatureValue.setText(mSharedPreferences.getInt(SAVED_TEMPERAT
    URE, 0) + "");
    mTimeValue.setText(mSharedPreferences.getString(SAVED_TIME,
    "Getting time..."));
    mPrecipValue.setText(mSharedPreferences.getInt(SAVED_PRECIP, 0) +
    "");
    mSummaryLabel.setText(mSharedPreferences.getString(SAVED_SUMMARY,
    "Getting weather.."));
    mIcon.setImageResource(mSharedPreferences.getInt(SAVED_IMAGE,

```

```

R.drawable.clear_day));

// Update display for the first time0
mProgressBar.setVisibility(View.INVISIBLE);
    updateData();

mRefreshButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        updateData();
    }
});

mDayButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent intent = new Intent(Prediksi_Cuaca.this,
DailyActivity.class);
        Bundle extras = new Bundle();
        extras.putParcelableArray(DAILY_FORECAST,
mForecast.getDays());
        /* extras.putString(LOCATION_FORMAT,
Forecast.getLocationFormat()); */
        intent.putExtras(extras);
        startActivity(intent);
    }
});

mHourButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent intent = new Intent(Prediksi_Cuaca.this,
HourlyActivity.class);

        intent.addFlags(intent.FLAG_ACTIVITY_NO_ANIMATION);
        intent.putExtra(HOURLY_FORECAST,
mForecast.getHours());
        startActivity(intent);
    }
});

}

@Override
protected void onPause() {
    super.onPause();
    if(mForecast != null) {
        mCurrent = mForecast.getCurrent();
        mEditor.putInt(SAVED_TEMPERATURE, mCurrent.getTemperature());
        mEditor.putString(SAVED_TIME, mCurrent.getTimeString());
        mEditor.putLong(SAVED_HUMIDITY,
Double.doubleToRawLongBits(mCurrent.getHumidity()));
        mEditor.putInt(SAVED_PRECIP, mCurrent.getPrecipChance());
        mEditor.putString(SAVED_SUMMARY, mCurrent.getSummary());
        mEditor.putInt(SAVED_IMAGE, mCurrent.getIconId());
        mEditor.apply();
    }
}

```

```

private Forecast setJsonData(String jsonData) throws JSONException
{
    Forecast forecast = new Forecast();
    forecast.setCurrent(setWeatherDetail(jsonData));
    forecast.setDays(setDaysDetail(jsonData));
    forecast.setHours(setHoursDetail(jsonData));

    return forecast;
}

private Hour[] setHoursDetail(String jsonData) throws
JSONException {
    JSONObject json = new JSONObject(jsonData);
    JSONObject hourly = json.getJSONObject("hourly");
    JSONArray data = hourly.getJSONArray("data");

    Hour[] mHours = new Hour[data.length()];

    for(int i = 0; i < data.length(); i++){
        Hour hour = new Hour();
        JSONObject singleHour = data.getJSONObject(i);

        hour.setIcon(singleHour.getString("icon"));
        hour.setTimeZone(json.getString("timezone"));
        hour.setTime(singleHour.getLong("time"));

        hour.setTemperature(singleHour.getDouble("temperature"));
        hour.setSummary(singleHour.getString("summary"));

        mHours[i] = hour;
    }

    return mHours;
}

private Day[] setDaysDetail(String jsonData) throws JSONException
{
    JSONObject json = new JSONObject(jsonData);
    JSONObject daily = json.getJSONObject("daily");
    JSONArray data = daily.getJSONArray("data");

    Day[] mDays = new Day[data.length()];

    for(int i = 0; i < data.length(); i++){
        Day day = new Day();
        JSONObject singleDay = data.getJSONObject(i);

        day.setIcon(singleDay.getString("icon"));
        day.setTimeZone(json.getString("timezone"));
        day.setTime(singleDay.getLong("time"));

        day.setTemperatureMax(singleDay.getDouble("temperatureMax"));

        mDays[i] = day;
    }
}

```

```

return mDays;
    }
    private void updateCurrentDisplay() {
        Current current = mForecast.getCurrent();
        mTemperatureValue.setText(current.getTemperature() + "");
        mHumidityValue.setText(current.getHumidity() + "");
        mPrecipValue.setText(current.getPrecipChance() + "%");
        mSummaryLabel.setText(current.getSummary());
        mTimeValue.setText(current.getTime());
        // mAddress.setText(Forecast.getLocationFormat());

        Drawable drawable =
            getResources().getDrawable(current.getIconId());
        mIcon.setImageDrawable(drawable);
    }

    private Current setWeatherDetail(String jsonData) throws
        JSONException {
        JSONObject data = new JSONObject(jsonData);
        JSONObject currently = data.getJSONObject("currently");
        mCurrent = new Current();

        mCurrent.setTimeZone(data.getString("timezone"));
        mCurrent.setTemperature(currently.getDouble("temperature"));
        mCurrent.setHumidity(currently.getDouble("humidity"));
        mCurrent.setPrecipChance(currently.getDouble("precipProbability"));
        ;
        mCurrent.setSummary(currently.getString("summary"));
        mCurrent.setTime(currently.getLong("time"));
        mCurrent.setIconId(currently.getString("icon"));

        return mCurrent;
    }

    private void updateData() {
        if(isNetworkAvailable()) {
            toggleRefreshButton();
            OkHttpClient client = new OkHttpClient();
            Request request = new
            Request.Builder().url(connection).build();
            Call call = client.newCall(request);

            call.enqueue(new Callback() {
                @Override
                public void onFailure(Call call, IOException e) {
                    alertUserAboutError("There was something error
                    !");
                }
            })

            @Override
            public void onResponse(Call call, Response response) throws
            IOException {
                if (response.isSuccessful()) {
                    try {

```

```

        String jsonData =
response.body().string();
mForecast = setJsonData(jsonData);
        runOnUiThread(new Runnable() {

@Override
public void run() {

                updateCurrentDisplay();
                toggleRefreshButton();

            }

        });

        } catch (IOException e) {
            e.printStackTrace();
        } catch (JSONException e){
            e.printStackTrace();
        }
        } else {
            alertUserAboutError("There was somethin
error !");
        }
    }
});
} else {
    alertUserAboutError("Network Unavailable");
}
}

private boolean isNetworkAvailable() {
    ConnectivityManager manager =(ConnectivityManager)
getSystemService(this.CONNECTIVITY_SERVICE);
    NetworkInfo networkInfo = manager.getActiveNetworkInfo();
boolean isNetworkAvailable = false;
if(networkInfo != null && networkInfo.isConnected()){
        isNetworkAvailable = true;
    }
return isNetworkAvailable;
}

private void alertUserAboutError(String errorMessage) {
    AlertDialogFragment dialog = new AlertDialogFragment();
    dialog.setErrorMessage(errorMessage);
    dialog.show(getFragmentManager(), "error_tag");
}

private void toggleRefreshButton() {
if(mRefreshButton.getVisibility() == View.VISIBLE){
mRefreshButton.setVisibility(View.INVISIBLE);
mProgressBar.setVisibility(View.VISIBLE);
    } else {
mRefreshButton.setVisibility(View.VISIBLE);
mProgressBar.setVisibility(View.INVISIBLE);
    }
}
}

```

K. TampilKomentar

```
package com.siraca;

import android.app.ProgressDialog;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.support.v7.widget.LinearLayoutManager;
import android.support.v7.widget.RecyclerView;
import android.util.Log;

import com.android.volley.Request;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.JsonArrayRequest;
import com.siraca.model.komentar.AdapterData_Komentar;
import com.siraca.model.komentar.DataModel_Komentar;
import com.siraca.network.config.AppController;
import com.siraca.network.config.Config;

import org.json.JSONArray;
import org.json.JSONException;
import org.json.JSONObject;

import java.util.ArrayList;
import java.util.List;

public class TampilKomentar extends AppCompatActivity {
    RecyclerView komentar;
    RecyclerView.Adapter mAdapter;
    RecyclerView.LayoutManager mManager;
    List<DataModel_Komentar>mItems;
    ProgressDialog pd;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_tampil_komentar);

        komentar = (RecyclerView) findViewById(R.id.r_komentar);
        pd = new ProgressDialog(TampilKomentar.this);
        mItems = new ArrayList<>();

        loadJson();

        mManager = new
        LinearLayoutManager(TampilKomentar.this, LinearLayoutManager.VERTICAL, false);
        komentar.setLayoutManager(mManager);
        mAdapter = new AdapterData_Komentar(TampilKomentar.this, mItems);
        komentar.setAdapter(mAdapter);
```

```

    }

    private void loadJson()
    {
        pd.setMessage("Mengambil Data");
        pd.setCancelable(false);
        pd.show();

        JsonArrayRequest reqData = new
        JsonArrayRequest(Request.Method.POST, Config.API_KOMENTAR, null,
        new Response.Listener<JSONArray>() {
            @Override
            public void onResponse(JSONArray response) {
                pd.cancel();

                Log.d("volley", "response : " +
                response.toString());
                for(int i = 0 ; i < response.length(); i++)
                {
                    try {
                        JSONObject data =
                        response.getJSONObject(i);
                        DataModel_Komentar md = new
                        DataModel_Komentar();

                        md.setTanggal(data.getString("tgl_komentar"));

                        md.setJudul(data.getString("judul_berita"));
                        md.setIsi(data.getString("isi_komentar"));

                        md.setNama(data.getString("nama_user"));
                        mItems.add(md);
                    } catch (JSONException e) {
                        e.printStackTrace();
                    }
                }
                mAdapter.notifyDataSetChanged();
            },
            new Response.ErrorListener() {
                @Override
                public void onErrorResponse(VolleyError error) {
                    pd.cancel();

                    Log.d("volley", "error : " +
                    error.getMessage());
                }
            }
        });

        ApplicationController.getInstance().addToRequestQueue(reqData);
    }
}

```

L. Tentang Kami

```

package com.siraca;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

public class Tentang_Kami extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_tentang_kami);
    }
}

```

M. Pakai Aplikasi

```

package com.siraca;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

public class PakaiAplikasi extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_pakai_aplikasi);
    }
}

```

N. Data Bencana

```

package com.siraca;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

public class Data_Bencana extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_data_bencana);
    }
}

```

LAMPIRAN

BIODATA PENULIS



Nama penulis tugas Akhir Yulia Sumaja lahir di Keban Agung, Jawa Tengah pada tanggal 25 Juli 1996, putri pertama dari bapak Juminan dan ibu Sriyana. Yulia mempunyai dua saudara laki-laki. Penulis menempuh pendidikan SD N 1 Tanjung Bulan, lalu melanjutkan ke SMP N 3 Pulau Beringin setelah itu masuk ke SMA N 1 Pulau Beringin setelah lulus pada tahun 2014 dan pada tahun yang sama penulis melanjutkan pendidikan ke perguruan tinggi di Politeknik Negeri Sriwijaya dengan jurusan Manajemen Informatika. Dengan ketekunan serta semangat dan motivasi yang tinggi, penulis akhirnya mampu menyelesaikan tugas akhir ini.

Semoga dengan menulis Tugas Akhir ini mampu memberikan kontribusi dalam dunia pendidikan dan mampu menambah wawasan bagi penulis serta memberikan semangat yang luar biasa untuk selalu belajar menjadi lebih baik. Akhir kata penulis mengucapkan puji dan syukur kepada ALLAH SWT atas terselesainya tugas akhir ini dengan judul **“Sistem Informasi Pemetaan Potensi Rawan Bencana pada Badan Penanggulangan Bencana Daerah Provinsi Sumatera Selatan”**