

## 1. Build.gradle project

// Top-level build file where you can add configuration options common to all sub-projects/modules.

```
buildscript {
    ext.kotlin_version = '1.3.11'
    repositories {
        google()
        mavenCentral()
        jcenter()
    }
    dependencies {
        classpath 'com.android.tools.build:gradle:3.4.2'
        classpath "org.jetbrains.kotlin:kotlin-gradle-plugin:$kotlin_version"
        classpath 'com.google.gms:google-services:4.3.2'
        // NOTE: Do not place your application dependencies here; they belong
        // in the individual module build.gradle files
    }
}

allprojects {
    repositories {
        google()
        mavenCentral()
        jcenter()
        maven { url "https://maven.google.com" }
        maven { url 'https://jitpack.io' }
        maven { url "https://dl.bintray.com/babedev/maven" }
    }
}

task clean(type: Delete) {
    delete rootProject.buildDir
}
```

## 2. Build gradle app

```
apply plugin: 'com.android.application'
apply plugin: 'kotlin-android'
apply plugin: 'kotlin-android-extensions'
apply plugin: 'kotlin-kapt'

android {
    compileSdkVersion 28
    defaultConfig {
        applicationId 'com.unibba.traceralumni2019'
        minSdkVersion 16
        targetSdkVersion 28
        multiDexEnabled true
        versionCode 5
    }
}
```

```

        versionName '1.5'
        testInstrumentationRunner 'android.support.test.runner.AndroidJUnitRunner'
    }
    buildTypes {
        release {
            android {
                dexOptions {
                    javaMaxHeapSize "4G"
                }
                lintOptions {
                    checkReleaseBuilds false
                    // Or, if you prefer, you can continue to check for errors in release builds,
                    // but continue the build even when errors are found:
                    abortOnError false
                }
            }
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'),
'proguard-rules.pro'
        }
    }
}

dependencies {
    implementation fileTree(dir: 'libs', include: ['*.jar'])
    implementation "org.jetbrains.kotlin:kotlin-stdlib-jdk7:$kotlin_version"
    implementation "org.jetbrains.kotlin:kotlin-reflect:$kotlin_version"
    implementation 'com.android.support:appcompat-v7:28.0.0'
    implementation 'androidx.appcompat:appcompat:1.1.0'
    implementation 'androidx.gridlayout:gridlayout:1.0.0'
    implementation 'com.android.support:support-v4:28.0.0'
    implementation 'com.android.support:design:28.0.0'
    implementation 'com.android.support:recyclerview-v7:28.0.0'
    implementation 'com.android.support:cardview-v7:28.0.0'
    implementation 'com.android.support:gridlayout-v7:28.0.0'
    implementation 'com.android.support.constraint:constraint-layout:2.0.0-alpha3'
    implementation 'com.android.support:support-vector-drawable:28.0.0'
    testImplementation 'junit:junit:4.12'
    androidTestImplementation 'com.android.support.test:runner:1.0.2'
    androidTestImplementation 'com.android.support.test.espresso:espresso-core:3.0.2'
    implementation 'com.google.firebase:firebase-core:17.2.0'
    implementation 'com.google.firebase:firebase-analytics:17.2.0'
    implementation 'com.google.firebase:firebase-auth:19.1.0'
    implementation 'com.google.firebase:firebase-ui-auth:4.2.0'
    implementation 'com.google.firebase:firebase-firestore:21.1.1'
    implementation 'com.google.firebase:firebase-messaging:20.0.0'
    implementation 'com.google.firebase:firebase-storage:19.1.0'
    implementation 'com.google.android.gms:play-services-flags:17.0.0'
    implementation 'com.google.android.gms:play-services-maps:17.0.0'
    implementation 'com.google.android.gms:play-services-auth:17.0.0'
    implementation 'com.google.android.gms:play-services-location:17.0.0'
    implementation 'com.journeyapps:zxing-android-embedded:3.5.0'
    implementation 'com.github.babedev:dexter.dsl:1.0.1'
    implementation 'com.google.code.gson:gson:2.8.5'
    implementation 'com.squareup.retrofit2:retrofit:2.5.0'
    implementation 'com.squareup.retrofit2:converter-gson:2.5.0'
    implementation 'com.github.PhilJay:MPAndroidChart:v3.1.0'
    implementation 'com.android.support:multidex:1.0.3'
}

```

```

implementation 'com.scottyab:secure-preferences-lib:0.1.4'
implementation 'com.theartofdev.edmodo:android-image-cropper:2.3.1'
implementation 'com.github.bumptech.glide:glide:4.10.0'
annotationProcessor 'com.github.bumptech.glide:compiler:4.10.0'
implementation 'com.github.chrisbanes:PhotoView:2.0.0'
implementation 'com.toptoeche.searchablespinner:searchablespinnerlibrary:1.3.1'
implementation 'com.github.aliwaris0572:GifDialog:0.0.4'
implementation 'com.itextpdf:itextg:5.5.10'
implementation 'com.vanniktech:emoji-ios:0.6.0'
implementation 'com.github.d-max:spots-dialog:1.1@aar'
implementation 'de.siegmar:fastcsv:1.0.3'
implementation 'org.apache.poi:poi:3.17'
}
apply plugin: 'com.google.gms.google-services'

```

### 3. Gradle properties

```

# Project-wide Gradle settings.
# IDE (e.g. Android Studio) users:
# Gradle settings configured through the IDE *will override*
# any settings specified in this file.
# For more details on how to configure your build environment visit
# http://www.gradle.org/docs/current/userguide/build_environment.html
# Specifies the JVM arguments used for the daemon process.
# The setting is particularly useful for tweaking memory settings.
org.gradle.jvmargs=-Xmx1536m
# When configured, Gradle will run in incubating parallel mode.
# This option should only be used with decoupled projects. More details, visit
#
# http://www.gradle.org/docs/current/userguide/multi_project_builds.html#sec:decoupled_projects
# org.gradle.parallel=true
# Kotlin code style for this project: "official" or "obsolete":
kotlin.code.style=official
android.enableJetifier=true
android.useAndroidX=true

```

### 4. AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    package="com.unibba.traceralumni2019">

    <uses-permission android:name="android.permission.INTERNET"/>
    <uses-permission android:name="android.permission.VIBRATE"/>
    <uses-permission
android:name="android.permission.READ_EXTERNAL_STORAGE"/>
    <uses-permission
android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
    <uses-permission android:name="android.permission.FLASHLIGHT"/>
    <uses-permission

```

```

android:name="com.google.android.providers.gsf.permission.READ_GSERVICES"/
>
    <uses-permission
android:name="android.permission.ACCESS_COARSE_LOCATION"/>
    <uses-permission
android:name="android.permission.ACCESS_FINE_LOCATION"/>
    <uses-permission
android:name="android.permission.SEND_DOWNLOAD_COMPLETED_INTENTS
"/>

    <application
        android:largeHeap="true"
        android:allowBackup="true"
        android:hardwareAccelerated="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher"
        android:supportsRtl="true"
        android:theme="@style/AppTheme.NoActionBar"
tools:ignore="GoogleAppIndexingWarning">
        <!-- make sure within the application tag, otherwise app will crash with
XmlResourceParser errors -->
        <provider
            android:name="androidx.core.content.FileProvider"
            android:authorities="com.codepath.fileprovider"
            android:exported="false"
            android:grantUriPermissions="true">
            <meta-data

android:name="android.support.FILE_PROVIDER_PATHS"
            android:resource="@xml/fileprovider"/>
        </provider>
        <meta-data
            android:name="com.google.android.geo.API_KEY"
            android:value="@string/google_maps_key"/>
        <meta-data android:name="com.google.android.gms.version"
            android:value="@integer/google_play_services_version"/>
        <meta-data

android:name="com.google.firebase.messaging.default_notification_icon"
            android:resource="@mipmap/ic_launcher" />
        <meta-data

android:name="com.google.firebase.messaging.default_notification_color"
            android:resource="@color/white" />
        <activity

android:name="com.unibba.traceralumni2019.activity.MainActivity"

```

```

        android:label="@string/app_name">
        <intent-filter>
            <action android:name="android.intent.action.MAIN"/>

            <category
android:name="android.intent.category.LAUNCHER"/>
            </intent-filter>
        </activity>
        <activity

android:name="com.unibba.traceralumni2019.activity.DaftarActivity"
            android:theme="@style/AppTheme.NoActionBar">
        </activity>
        <activity

android:name="com.unibba.traceralumni2019.activity.ResetActivity"
            android:theme="@style/AppTheme.NoActionBar">
        </activity>
        <activity

android:name="com.unibba.traceralumni2019.activity.LoginActivity"
            android:theme="@style/AppTheme.NoActionBar">
        </activity>
        <activity

android:name="com.unibba.traceralumni2019.activity.Validasi0Activity"

android:theme="@style/AppTheme.NoActionBar.windowFullscreen">
        </activity>
        <activity

android:name="com.unibba.traceralumni2019.activity.Validasi1Activity"

android:theme="@style/AppTheme.NoActionBar.windowFullscreen">
        </activity>
        <activity

android:name="com.unibba.traceralumni2019.activity.Validasi2Activity"

android:theme="@style/AppTheme.NoActionBar.windowFullscreen">
        </activity>
        <activity

android:name="com.unibba.traceralumni2019.activity.Tracerstudy0Activity"

android:theme="@style/AppTheme.NoActionBar.windowFullscreen">
        </activity>
        <activity

```

```

android:name="com.unibba.traceralumni2019.activity.Tracerstudy1Activity"
android:theme="@style/AppTheme.NoActionBar.windowFullscreen">
    </activity>
<activity

android:name="com.unibba.traceralumni2019.activity.Tracerstudy2Activity"
android:theme="@style/AppTheme.NoActionBar.windowFullscreen">
    </activity>
<activity

android:name="com.unibba.traceralumni2019.activity.Tracerstudy4Activity"
android:theme="@style/AppTheme.NoActionBar.windowFullscreen">
    </activity>
<activity

android:name="com.unibba.traceralumni2019.activity.Tracerstudy3Activity"
android:theme="@style/AppTheme.NoActionBar.windowFullscreen">
    </activity>
<activity

android:name="com.unibba.traceralumni2019.activity.AdminActivity"
    android:theme="@style/AppTheme"
    android:label="Admin Menu">
    </activity>
<activity

android:name="com.unibba.traceralumni2019.activity.PengelolaanUserActivity"
    android:theme="@style/AppTheme.NoActionBar">
    </activity>
<activity

android:name="com.unibba.traceralumni2019.activity.LaporanDataAlumniActivity"
    android:theme="@style/AppTheme.NoActionBar">
    </activity>
<activity

android:name="com.unibba.traceralumni2019.activity.LaporanRekapDataTracerAlu
mniActivity"
    android:theme="@style/AppTheme.NoActionBar">
    </activity>
<activity

android:name="com.unibba.traceralumni2019.activity.FakultasActivity"

```

```

        android:theme="@style/AppTheme.NoActionBar">
    </activity>
    <activity

android:name="com.unibba.traceralumni2019.activity.BackupActivity"
        android:theme="@style/AppTheme.NoActionBar">
    </activity>
    <activity

android:name="com.unibba.traceralumni2019.activity.ProfilActivity"
        android:label="@string/profil"
        android:theme="@style/AppTheme">
    </activity>
    <activity

android:name="com.unibba.traceralumni2019.activity.ProfilPasswordActivity"
        android:label="@string/ubah_password"
        android:theme="@style/AppTheme">
    </activity>
    <activity

android:name="com.unibba.traceralumni2019.activity.ChatActivity"
        android:label=""
        android:theme="@style/AppTheme.NoActionBar">
    </activity>
    <activity

android:name="com.unibba.traceralumni2019.activity.ChatKontakActivity"
        android:label=""
        android:theme="@style/AppTheme.NoActionBar">
    </activity>
    <activity

android:name="com.unibba.traceralumni2019.activity.ForumActivity"
        android:theme="@style/AppTheme.NoActionBar">
    </activity>
    <activity

android:name="com.unibba.traceralumni2019.activity.ListAlumniActivity"
        android:theme="@style/AppTheme.NoActionBar">
    </activity>
    <activity

android:name="com.unibba.traceralumni2019.activity.ConnectActivity"

android:theme="@style/AppTheme.NoActionBar.windowFullscreen">
    </activity>
    <activity

```

```

        android:name="com.unibba.traceralumni2019.activity.ImageviewActivity"
            android:theme="@style/AppTheme.NoActionBar">
        </activity>
        <service

        android:name="com.unibba.traceralumni2019.util.MyFirebaseMessagingService">
            <intent-filter>
                <action
        android:name="com.google.firebase.MESSAGING_EVENT"/>
            </intent-filter>
        </service>
        <!--<service-->
        <!--android:name=".util.MyFirebaseInstanceIdService">-->
        <!--<intent-filter>-->
        <!--<action
        android:name="com.google.firebase.INSTANCE_ID_EVENT"/>-->
        <!--</intent-filter>-->
        <!--</service>-->
    </application>

</manifest>

```

## 5. Activity

### 5.1 AdminActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.content.Context
import android.content.Intent
import android.os.Bundle
import android.view.LayoutInflater
import androidx.appcompat.app.AppCompatActivity
import com.unibba.traceralumni2019.R
import android.view.View
import android.view.ViewGroup
import android.widget.*
import com.unibba.traceralumni2019.model.AdminGrid
import kotlinx.android.synthetic.main.activity_admin.*

class AdminActivity : AppCompatActivity() {

    var adapter: AdminGridAdapter? = null
    var gridList = ArrayList<AdminGrid>()

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_admin)
    }
}

```



```

        gridList.add(AdminGrid("Pengelolaan\nUser", R.drawable.ic_user_setting))
        gridList.add(AdminGrid("Data Alumni", R.drawable.ic_graduate))
        gridList.add(AdminGrid("Rekap Tracer Alumni", R.drawable.ic_contract))
        gridList.add(AdminGrid("Fakultas", R.drawable.ic_fakultas))
        gridList.add(AdminGrid("Database", R.drawable.ic_database))
        adapter = AdminGridAdapter(this, gridList)

        gridView.adapter = adapter
    }

    class AdminGridAdapter : BaseAdapter {
        var gridList = ArrayList<AdminGrid>()
        var context: Context? = null

        constructor(context: Context, gridList: ArrayList<AdminGrid>) : super() {
            this.context = context
            this.gridList = gridList
        }

        override fun getCount(): Int {
            return gridList.size
        }

        override fun getItem(position: Int): Any {
            return gridList[position]
        }

        override fun getItemId(position: Int): Long {
            return position.toLong()
        }

        override fun getView(position: Int, convertView: View?, parent:
        ViewGroup?): View {
            val grid = this.gridList[position]

            var inflater =
            context!!.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
            LayoutInflater
            var gridView =
            inflater.inflate(R.layout.activity_admin_gridview_layout, null)
            var grid_image:ImageView =
            gridView.findViewById(R.id.grid_image)
            var grid_text:TextView = gridView.findViewById(R.id.grid_text)
            grid_image.setImageResource(grid.image!!)
            grid_text.text = grid.name!!

            gridView.setOnClickListener{

```



```

        override fun onCreate(savedInstanceState: Bundle?) {
            super.onCreate(savedInstanceState)
            setContentView(R.layout.activity_backup)
            firestoreDB = FirebaseFirestore.getInstance()
            if (viewpager != null) {
                setupViewPager(viewpager)
            }
        }

        private fun setupViewPager(viewPager: ViewPager) {
            val adapter = Adapter(this.supportFragmentManager)
            adapter.addFragment(BackupFragment(), "Backup")
            adapter.addFragment(RestoreFragment(), "Restore")
            viewPager.adapter = adapter
            tabs.setupWithViewPager(viewPager)
        }

        internal class Adapter(fm: FragmentManager) : FragmentPagerAdapter(fm) {
            private val mFragments = ArrayList<Fragment>()
            private val mFragmentTitles = ArrayList<String>()

            fun addFragment(fragment: Fragment, title: String) {
                mFragments.add(fragment)
                mFragmentTitles.add(title)
            }

            override fun getItem(position: Int): Fragment {
                return mFragments.get(position)
            }

            override fun getCount(): Int {
                return mFragments.size
            }

            override fun getPageTitle(position: Int): CharSequence? {
                return mFragmentTitles.get(position)
            }
        }
    }
}

```

### 5.3 ChatActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.content.Intent
import android.os.Bundle
import android.os.Environment
import android.provider.MediaStore
import android.text.format.DateFormat

```

```
import android.util.Log
import android.view.MenuItem
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import androidx.core.content.FileProvider
import androidx.recyclerview.widget.LinearLayoutManager
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions
import com.google.firebase.Timestamp
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.firestore.Query
import com.google.firebase.firestore.SetOptions
import com.google.firebase.messaging.FirebaseMessaging
import com.google.firebase.messaging.RemoteMessage
import com.google.gson.Gson
import com.unibba.traceralumni2019.BuildConfig
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.adapter.ChatMessageAdapter
import com.unibba.traceralumni2019.model.ChatMessage
import com.unibba.traceralumni2019.util.PageTransformer
import com.unibba.traceralumni2019.util.SessionManager
import com.unibba.traceralumni2019.util.md5
import com.vanniktech.emoji.EmojiPopup
import kotlinx.android.synthetic.main.activity_chat.*
import kotlinx.android.synthetic.main.toolbar_custom.*
import java.io.File
import java.text.SimpleDateFormat
import java.util.*
import kotlin.collections.HashMap
```

```
class ChatActivity : AppCompatActivity() {

    val TAG = "ChatActivity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private var mAdapterter: ChatMessageAdapter? = null
    lateinit var emojiPopup: EmojiPopup
    private val IMAGE_GALLERY_REQUEST = 1
    private val IMAGE_CAMERA_REQUEST = 2
    private val PLACE_PICKER_REQUEST = 3
    private lateinit var sessionManager: SessionManager
    var nim_s = ""
    var id = ""
    var uid = ""
    var nama = ""
```

```

var last_seen = ""
var image_url = ""
var token = ""
var new = false

override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_chat)
    firestoreDB = FirebaseFirestore.getInstance()
    sessionManager = SessionManager(this@ChatActivity)
    val mLayoutManager = LinearLayoutManager(this@ChatActivity)
    mLayoutManager.reverseLayout = false
    mLayoutManager.stackFromEnd = true
    recycler_view.layoutManager = mLayoutManager
    nim_s = sessionManager.getLogin().get("nim").toString()
    emojiButton.setOnClickListener {
        this.emojiPopup.toggle()
    }
    setUpEmojiPopup()
    setSupportActionBar(toolbar)
    supportActionBar!!.setDisplayHomeAsUpEnabled(true)

    val intent = intent
    val b = intent.extras

    if (b != null) {
        id = b.get("id").toString()
        uid = b.get("uid").toString()
        nama = b.get("nama").toString()
        last_seen = "last seen " + b.get("last_seen").toString()
        image_url = b.get("image_url").toString()
        token = b.get("token").toString()
        new = b.get("new").toString().toBoolean()
    }
    action_bar_title_1.text = nama
    action_bar_title_2.text = last_seen
    Glide.with(applicationContext).load(image_url)
        .apply(
            RequestOptions()
                .circleCrop()
                .centerCrop()
                .error(R.drawable.ic_user)
                .placeholder(R.drawable.ic_user)
        )
        .apply(RequestOptions.circleCropTransform())
        .into(imageView)
    getUser(id, uid, nim_s, new)
    loadData(id)

```

```

        send.setOnClickListener {
            sendMessage(id, uid, new)
        }
    }

    fun getUser(id: String, uid: String, nim: String, new: Boolean) {
        if (!id.isNullOrEmpty() && !uid.isNullOrEmpty()
        && !nim.isNullOrEmpty()) {
            read(id, uid)
            firestoreListener = firestoreDB!!.collection("users")
                .whereEqualTo("nim", uid)
                .addSnapshotListener(EventListener { documentSnapshots, e ->
                    if (e != null) {
                        Log.e(TAG, "Listen failed!", e)
                        // pbLoading.visibility = View.GONE
                        return@EventListener
                    }
                    System.out.println("nim=>" + documentSnapshots?.size())
                    if (documentSnapshots != null) {
                        var uid = ""
                        var nama = ""
                        var image = ""
                        var last_seen = Timestamp.now()
                        for (doc in documentSnapshots) {
                            System.out.println("nim=>" +
doc.get("nim").toString())

                            if (doc.get("nim") != null)
                                uid = doc.get("nim").toString()
                            if (doc.get("nama") != null)
                                nama = doc.get("nama").toString()
                            if (doc.get("image_url") != null)
                                image = doc.get("image_url").toString()
                            if (doc.get("last_seen") != null) {
                                last_seen = doc.get("last_seen") as
Timestamp

                                }
                            }

                            System.out.println("nim=>" + uid + "\nnama=>" +
nama + "\nimage=>" + image + "\nlastseen=>" + last_seen)
                            userData("" + id, "" + uid, "" + nama, "" + image,
last_seen, new)
                        }
                    }
                })
            firestoreListener = firestoreDB!!.collection("users")
                .whereEqualTo("nim", nim)
                .addSnapshotListener(EventListener { documentSnapshots, e ->
                    if (e != null) {

```

```

        Log.e(TAG, "Listen failed!", e)
        pbLoading.visibility = View.GONE
        return@EventListener
    }
    System.out.println("nim=>" + documentSnapshots?.size())
    if (documentSnapshots != null) {
        var uid = ""
        var nama = ""
        var image = ""
        var last_seen = Timestamp.now()
        for (doc in documentSnapshots) {
            System.out.println("nim=>" +
doc.get("nim").toString()
                if (doc.get("nim") != null)
                    uid = doc.get("nim").toString()
                if (doc.get("nama") != null)
                    nama = doc.get("nama").toString()
                if (doc.get("image_url") != null)
                    image = doc.get("image_url").toString()
                if (doc.get("last_seen") != null)
                    last_seen = doc.get("last_seen") as
Timestamp
                }
            System.out.println("nim=>" + uid + "\nnama=>" +
nama + "\nimage=>" + image + "\nlastseen=>" + last_seen)
            userData("", id, "" + uid, "" + nama, "" + image,
last_seen, new)
        }
    })
}

fun userData(
    id: String,
    uid: String,
    nama: String,
    image_url: String,
    last_seen: Timestamp,
    new: Boolean
) {
    System.out.println("userdata=>" + new)
    if (new == false) {
        val data = hashMapOf(
            "nama" to nama,
            "image_url" to image_url,
            "last_seen" to last_seen
        )
        val userdata = hashMapOf(

```

```

        uid to data
    )
    val docData = hashMapOf<String, Any>()
    docData["userdata"] = userdata
    System.out.println("docData=>" + docData)
    firestoreDB!!
        .collection("chat")
        .document(id)
        .set(docData, SetOptions.merge())
    }
}

fun loadData(id: String) {
    if (!id.isNullOrEmpty()) {
        firestoreListener = firestoreDB!!.collection("chat")
            .document(id)
            .collection("messages")
            .orderBy("timestamp", Query.Direction.ASCENDING)
            .addSnapshotListener(EventListener { documentSnapshots, e ->
                if (e != null) {
                    Log.e(TAG, "Listen failed!", e)
                }
                pbLoading.visibility = View.GONE
                return@EventListener
            })

        val List = mutableListOf<ChatMessage>()
        if (documentSnapshots != null) {
            for (doc in documentSnapshots) {
                var uid = ""
                var pesan = ""
                var timestamp = ""
                var read = 0
                var date_read = "-"

                if (doc.get("uid") != null)
                    uid = doc.get("uid").toString()
                if (doc.get("pesan") != null)
                    pesan = doc.get("pesan").toString()
                val sdf = SimpleDateFormat("dd-MM-yyyy
hh:mm:ss")

                if (doc.get("timestamp") != null) {
                    val timestamps = doc.get("timestamp") as
Timestamp

                    val datetimestamps = timestamps.toDate()
                    timestamp = sdf.format(datetimestamps)
                }
                if (doc.get("read") != null)
                    read = doc.get("read").toString().toInt()
            }
        }
    }
}

```



Timestamp

```
        if (doc.get("date_read") != null) {
            val date_reads = doc.get("date_read") as

            val datedate_reads = date_reads.toDate()
            date_read = sdf.format(datedate_reads)
        }
        var names = ""
        if (uid.equals(nim_s)){
            names =
sessionManager.getLogin().get("nama").toString()
        }else{
            names = nama
        }
        val list = ChatMessage(
            "" + id,
            "" + doc.id,
            "" + names,
            "" + uid,
            "" + pesan,
            "" + timestamp,
            0 + read,
            "" + date_read
        )
        List.add(list)
    }
    read(id, uid)
    count(id, uid)
    if (!List.isNullOrEmpty()) {
        mAdapter = ChatMessageAdapter(List,
this@ChatActivity, firestoreDB!!)
        var gson = Gson()
        val gson1 = gson.toJson(List)
        System.out.println("gson=>" + gson1)
    }
    if (mAdapter != null) {
        recycler_view.adapter = mAdapter
    }
}

fun sendMessage(id: String, uid: String, new: Boolean) {
    val pesan = editText.text.toString()
    if (!id.equals("") && !pesan.trim().isNullOrEmpty()) {
        val fm = FirebaseMessaging.getInstance()
        val SENDER_ID = token
        val message_id = (nim_s + Timestamp.now()).md5()
    }
}
```

```

fm.send(RemoteMessage.Builder("$SENDER_ID@fcm.googleapis.com")
    .setMessageId(message_id)
    .addData("my_message", "Hello World")
    .addData("my_action", "SAY_HELLO")
    .build())

if (new == true) {
    getUser(id, uid, nim_s, false)
    val userid = mutableListOf(uid, nim_s)
    val datauserid = HashMap<String, Any>()
    datauserid.put("userid", userid)
    updateheader(id, datauserid, false)
    count(id, uid)
}

val data = HashMap<String, Any>()
data.put("pesan", pesan)
data.put("timestamp", Date())
data.put("uid", nim_s)
data.put("read", 0)

firestoreDB!!.collection("chat")
    .document(id)
    .collection("messages")
    .add(data)
    .addOnSuccessListener {}

read(id, uid)

val data_header = hashMapOf(
    "pesan" to pesan,
    "timestamp" to Date()
)
updateheader(id, data_header, false)
count(id, uid)
}
editText.setText("")
Toast.makeText(this, pesan, Toast.LENGTH_SHORT).show()
}

fun read(id: String, uid: String) {
    firestoreDB!!.collection("chat")
        .document(id)
        .collection("messages")
        .whereEqualTo("uid", uid)
        .whereEqualTo("read", 0)
        .get()
}

```

```

        .addOnSuccessListener { task ->
            val data = HashMap<String, Any>()
            data.put("read", 1)
            data.put("date_read", Date())
            if (task != null) {
                for (doc in task) {
                    firestoreDB!!.collection("chat")
                        .document(id)
                        .collection("messages")
                        .document(doc.id)
                        .set(data, SetOptions.merge())
                }
                count(id, uid)
            }
        }
    }

fun count(id: String, uid: String) {
    firestoreDB!!.collection("chat")
        .document(id)
        .collection("messages")
        .whereEqualTo("uid", nim_s)
        .whereEqualTo("read", 0)
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }
            if (documentSnapshots != null) {
                val count = documentSnapshots.size()
                System.out.println("count123=>" + count)

                val userdata = hashMapOf<String, Any>()
                val user = hashMapOf<String, Any>()
                val readcount1 = hashMapOf("read" to count)
                val readcount2 = hashMapOf("read" to 0)
                user[uid] = readcount1
                user[nim_s] = readcount2
                userdata["userdata"] = user
                updateheader(id, userdata, new)
            }
        })
}

fun updateheader(id: String, data: HashMap<String, Any>, new:Boolean) {
    if (new==false) {
        firestoreDB!!.collection("chat")

```

```

        .document(id)
        .set(data, SetOptions.merge())
        .addOnSuccessListener {}
    }
}

override fun onOptionsItemSelected(item: MenuItem): Boolean {
    when (item.itemId) {
        android.R.id.home -> {
            // API 5+ solution
            onBackPressed()
            return true
        }

        else -> return super.onOptionsItemSelected(item)
    }
}

override fun onBackPressed() {
    if (emojiPopup != null && emojiPopup.isShowing) {
        emojiPopup.dismiss()
    } else {
        super.onBackPressed()
        if (firestoreListener != null) {
            firestoreListener!!.remove()
            firestoreListener = null
        }
    }
}

override fun onStop() {
    super.onStop()
    if (emojiPopup != null) {
        emojiPopup.dismiss()
    }
    if (firestoreListener != null) {
        firestoreListener!!.remove()
        firestoreListener = null
    }
}

override fun onDestroy() {
    super.onDestroy()
    if (firestoreListener != null) {
        firestoreListener!!.remove()
        firestoreListener = null
    }
}

```

```

        private fun setUpEmojiPopup() {
            emojiPopup = EmojiPopup.Builder.fromRootView(root_view)
                .setOnEmojiBackspaceClickListener { ignore -> Log.d(TAG, "Clicked
on Backspace") }
                .setOnEmojiClickListener { ignore, ignore2 -> Log.d(TAG, "Clicked
on emoji") }
                .setOnEmojiPopupShownListener
            { emojiButton.setImageResource(R.drawable.ic_keyboard) }
                .setOnSoftKeyboardOpenListener { ignore -> Log.d(TAG, "Opened
soft keyboard") }
                .setOnEmojiPopupDismissListener
            { emojiButton.setImageResource(R.drawable.emoji_ios_category_smileysandpeople)
            }
                .setOnSoftKeyboardCloseListener { Log.d(TAG, "Closed soft
keyboard") }
                .setKeyboardAnimationStyle(R.style.emoji_fade_animation_style)
                .setPageTransformer(PageTransformer())
                .build(editText)
        }

//     private fun locationPlacesIntent() {
//         try {
//             val builder = PlacePicker.IntentBuilder()
//             startActivityForResult(builder.build(this),
PLACE_PICKER_REQUEST)
//         } catch (e: GooglePlayServicesRepairableException) {
//             e.printStackTrace()
//         } catch (e: GooglePlayServicesNotAvailableException) {
//             e.printStackTrace()
//         }
//     }
// }

        private fun photoCameraIntent() {
            val nomeFoto = DateFormat.format("yyyy-MM-dd_hhmmss",
Date()).toString()
            val filePathImageCamera =

File(Environment.getExternalStoragePublicDirectory(Environment.DIRECTORY_PI
CTURES), nomeFoto + "camera.jpg")
            val it = Intent(MediaStore.ACTION_IMAGE_CAPTURE)
            val photoURI = FileProvider.getUriForFile(
                this,
                BuildConfig.APPLICATION_ID + ".provider",
                filePathImageCamera
            )
            it.putExtra(MediaStore.EXTRA_OUTPUT, photoURI)

```

```

        startActivityForResult(it, IMAGE_CAMERA_REQUEST)
    }

    private fun photoGalleryIntent() {
        val intent = Intent()
        intent.type = "image/*"
        intent.action = Intent.ACTION_GET_CONTENT
        startActivityForResult(
            Intent.createChooser(intent, getString(R.string.select_picture_title)),
            IMAGE_GALLERY_REQUEST
        )
    }
}

```

#### 5.4 ChatKontakActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.os.Bundle
import android.util.Log
import android.view.Menu
import android.view.MenuItem
import android.view.View
import androidx.appcompat.app.AppCompatActivity
import androidx.appcompat.widget.SearchView
import androidx.core.view.MenuItemCompat
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.LinearLayoutManager
import com.google.firebase.Timestamp
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.adapter.ChatKontakAdapter
import com.unibba.traceralumni2019.model.ChatKontak
import com.unibba.traceralumni2019.util.Run
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_chatkontak.*
import java.text.SimpleDateFormat

class ChatKontakActivity : AppCompatActivity() {

    private val TAG = "ChatKontakActivity"
    private lateinit var sessionManager: SessionManager
    private var mAdapter: ChatKontakAdapter? = null
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
    }
}

```

```

setContentView(R.layout.activity_chatkontak)
firestoreDB = FirebaseFirestore.getInstance()
sessionManager = SessionManager(applicationContext)
recycler_view.layoutManager = LinearLayoutManager(applicationContext)
recycler_view.itemAnimator = DefaultItemAnimator()
pbLoading.visibility = View.VISIBLE
toolbar.title = "Chat Kontak"

firestoreListener = firestoreDB!!.collection("users")
    .addSnapshotListener(EventListener { documentSnapshots, e ->
        if (e != null) {
            Log.e(TAG, "Listen failed!", e)
            pbLoading.visibility = View.GONE
            return@EventListener
        }
        val List = mutableListOf<ChatKontak>()
        //looping list alumni
        for (doc in documentSnapshots!!) {
            var id = ""
            var image_url = ""
            var nim = ""
            var nama = ""
            var tentang = ""
            var token = ""
            var akses = 0
            var last_seen = ""

            if (doc.get("id") != null)
                id = doc.get("id").toString()
            if (doc.get("image_url") != null)
                image_url = doc.get("image_url").toString()
            if (doc.get("nim") != null)
                nim = doc.get("nim").toString()
            if (doc.get("nama") != null)
                nama = doc.get("nama").toString()
            if (doc.get("tentang") != null)
                tentang = doc.get("tentang").toString()
            if (doc.get("token") != null)
                token = doc.get("token").toString()
            if (doc.get("akses") != null)
                akses = doc.get("akses").toString().toInt()
            val sdf = SimpleDateFormat("dd/MM/yy hh:mm")
            if (doc.get("last_seen") != null) {
                val last_seens = doc.get("last_seen") as Timestamp
                val datelast_seens = last_seens.toDate()
                last_seen = sdf.format(datelast_seens)
            }
        }
        val list = ChatKontak(

```

```

        "" + id,
        "" + image_url,
        "" + nim,
        "" + nama,
        "" + tentang,
        "" + token,
        0 + akses,
        "" + last_seen
    )
    List.add(list)
}
if (!List.isNullOrEmpty())
    mAdapter = ChatKontakAdapter(List, applicationContext,
firestoreDB!!)
    if (mAdapter != null) {
        recycler_view.adapter = mAdapter
        texttotal.text = "Total " + mAdapter!!.itemCount
    }
    pbLoading.visibility = View.GONE
    })
    setSupportActionBar(toolbar)
}

override fun onCreateOptionsMenu(menu: Menu): Boolean {
    menuInflater.inflate(R.menu.menu_search, menu)
    val item = menu.findItem(R.id.action_search)
    val searchView = MenuItemCompat.getActionView(item) as SearchView
    searchView.setOnQueryTextListener(object :
SearchView.OnQueryTextListener {
        override fun onQueryTextSubmit(query: String): Boolean {
            return false
        }

        override fun onQueryTextChange(query: String): Boolean {
            //FILTER AS YOU TYPE
            mAdapter!!.getFilter().filter(query)
            Run.after(1000, {
                texttotal.text = "Total " + mAdapter!!.itemCount
            })
            return false
        }
    })
    return true
}

override fun onOptionsItemSelected(item: MenuItem): Boolean {
    // Handle action bar item clicks here. The action bar will
    // automatically handle clicks on the Home/Up button, so long

```



```

        // as you specify a parent activity in AndroidManifest.xml.
        val id = item.itemId
        return true
    }
}

```

### 5.5 ConnectActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.content.Intent
import android.os.Bundle
import android.os.Handler
import android.view.View
import androidx.appcompat.app.AppCompatActivity
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.InternetCheck
import kotlinx.android.synthetic.main.activity_connect.*

class ConnectActivity : AppCompatActivity() {

    private lateinit var internetCheck: InternetCheck
    private lateinit var mHandler: Handler
    private lateinit var mRunnable: Runnable

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_connect)
        internetCheck = InternetCheck()
        mHandler = Handler()
        pbLoading.visibility = View.GONE
        btnRetry.setOnClickListener {
            pbLoading.visibility = View.VISIBLE

            mHandler.postDelayed({
                if (internetCheck.isconnect(applicationContext) == true) {
                    val intent = Intent(applicationContext,
MainActivity::class.java)
                    intent.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP or
Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
                    startActivity(intent)
                    pbLoading.visibility = View.GONE
                } else {
                    pbLoading.visibility = View.GONE
                }
            }, 3000) // 3 seconds delay task execution
        }
    }
}

```

```
}  
}
```

### 5.6 DaftarActivity.kt

```
package com.unibba.traceralumni2019.activity  
  
import android.content.Intent  
import android.os.Bundle  
import android.text.TextUtils  
import android.widget.Toast  
import androidx.appcompat.app.AppCompatActivity  
import com.google.firebase.firestore.FirebaseFirestore  
import com.google.firebase.firestore.ListenerRegistration  
import com.unibba.traceralumni2019.R  
import com.unibba.traceralumni2019.util.Colorutil  
import com.unibba.traceralumni2019.util.SessionManager  
import dmax.dialog.SpotsDialog  
import kotlinx.android.synthetic.main.activity_daftar.*  
import java.util.*  
import kotlin.collections.HashMap  
  
class DaftarActivity : AppCompatActivity() {  
  
    private val TAG = "DaftarActivity"  
    private var firestoreDB: FirebaseFirestore? = null  
    private var firestoreListener: ListenerRegistration? = null  
    private var colorstr: Colorutil? = null  
    private lateinit var sessionManager: SessionManager  
  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        setContentView(R.layout.activity_daftar)  
        firestoreDB = FirebaseFirestore.getInstance()  
        sessionManager = SessionManager(this)  
        colorstr = Colorutil()  
        btnDaftar.setOnClickListener {  
            if (TextUtils.isEmpty(inputNim.text.trim())) {  
                inputNim.error = "Nim harus diisi!!!"  
                inputNim.requestFocus()  
            } else if (TextUtils.isEmpty(inputNama.text.trim())) {  
                inputNama.error = "Nama harus diisi!!!"  
                inputNama.requestFocus()  
            } else if (TextUtils.isEmpty(inputEmail.text.trim())) {  
                inputEmail.error = "Email harus diisi!!!"  
                inputEmail.requestFocus()  
            } else if (!IsValidEmail(inputEmail.text.trim())) {  
                inputEmail.error = "Email salah!!!"  
                inputEmail.requestFocus()  
            }  
        }  
    }  
}
```

```

        } else if (TextUtils.isEmpty(inputPassword1.text.trim())) {
            inputPassword1.error = "Password harus diisi!!!"
            inputPassword1.requestFocus()
        } else if (inputPassword1.text.length < 6) {
            inputPassword1.error = "Password minimal 6 karakter!!!"
            inputPassword1.requestFocus()
            inputPassword2.error = "Password minimal 6 karakter!!!"
        } else if (TextUtils.isEmpty(inputPassword2.text.trim())) {
            inputPassword2.error = "Password harus diisi!!!"
            inputPassword2.requestFocus()
        } else if
(!inputPassword1.text.toString().trim().equals(inputPassword2.text.toString().trim()))
{
            inputPassword1.error = "Password tidak sama!!!"
            inputPassword2.error = "Password tidak sama!!!"
            inputPassword1.requestFocus()
        } else {
            addData()
        }
    }
    tvLogin.setOnClickListener {
        val intent = Intent(applicationContext, LoginActivity::class.java)
        intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
        startActivity(intent)
    }
}

fun addData() {
    val dialog: android.app.AlertDialog? = SpotsDialog.Builder()
        .setContext(this)
        .setMessage("Loading...")
        .setCancelable(false)
        .build()
        .apply { show() }
    val data = HashMap<String, Any>()
    data.put("nim", inputNim.text.toString().toUpperCase())
    data.put("nama", inputNama.text.toString().toUpperCase())
    data.put("email", inputEmail.text.toString())
    data.put("password", inputPassword1.text.toString())
    data.put("tanggal", Date())
    data.put("validasi", 0)

    firestoreDB!!.collection("users")
        .document(inputNim.text.toString().toUpperCase())
        .get()
        .addOnCompleteListener { task ->
            if (task.isSuccessful) {

```

```

        val snapshot = task.result
        if (!snapshot!!.exists()) {
            firestoreDB!!.collection("users_register")
                .add(data)
                .addOnSuccessListener { documentReference ->
                    sessionManager.setValidasi(
                        "" + documentReference.id,
                        "" +
inputNim.text.toString().toUpperCase(),
                        "" + inputNama.text.toString(),
                        "" + inputEmail.text.toString()
                    )
                    val intent = Intent(applicationContext,
Validasi0Activity::class.java)

intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
                    startActivity(intent)
                }
            } else {
                //
                dialog.dismissDialog(TAG)
                dialog?.dismiss()
                Toast.makeText(applicationContext, "User sudah ada /
terdaftar!!!", Toast.LENGTH_SHORT).show()
            }
            } else {
                //
                dialog.dismissDialog(TAG)
                dialog?.dismiss()
                Toast.makeText(applicationContext, "Gagal daftar, silahkan
coba kembali!!!", Toast.LENGTH_SHORT).show()
            }
        }
    }

    fun isValidEmail(target: CharSequence): Boolean {
        return !TextUtils.isEmpty(target) &&
        android.util.Patterns.EMAIL_ADDRESS.matcher(target).matches()
    }
}

```

### 5.7 FakultasActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.content.Context
import android.os.Bundle
import android.util.Log
import android.view.LayoutInflater
import android.view.View

```

```

import android.widget.Button
import android.widget.EditText
import android.widget.Toast
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.app.AppCompatActivity
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.DividerItemDecoration
import androidx.recyclerview.widget.LinearLayoutManager
import com.google.firebase.firestore.*
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.adapter.FakultasAdapter
import com.unibba.traceralumni2019.model.Fakultas
import com.unibba.traceralumni2019.util.MyDividerItemDecoration
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_fakultas.*

class FakultasActivity : AppCompatActivity() {

    private val TAG = "ForumActivity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private var mAdapterter: FakultasAdapter? = null
    private lateinit var sessionManager: SessionManager

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_fakultas)
        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(this)
        val layoutManager = LinearLayoutManager(applicationContext)
        recycler_view.layoutManager = layoutManager
        recycler_view.itemAnimator = DefaultItemAnimator()
        recycler_view.addItemDecoration(MyDividerItemDecoration(this,
DividerItemDecoration.VERTICAL, 0))
        pbLoading.visibility = View.GONE
        toolbar.title = "Fakultas"
        fab.setOnClickListener {
            dialog_tambah()
        }
        loadData()
    }

    fun dialog_tambah(){
        val inflater =
this@FakultasActivity.getSystemService(Context.LAYOUT_INFLATER_SERVICE
) as LayoutInflater
        val formsView = inflater.inflate(R.layout.dialog_fakultas_prodi_edit, null,
false)

```

```

var inputId : EditText
var inputNama : EditText
var btnSimpan : Button

inputId = formsView.findViewById(R.id.inputId)
inputNama = formsView.findViewById(R.id.inputNama)
btnSimpan = formsView.findViewById(R.id.btnSimpan)

val builder = AlertDialog.Builder(this@FakultasActivity)
val dialog = builder.create()
dialog.setTitle("Tambah Fakultas")
dialog.setView(formsView)
dialog.show()
btnSimpan.setOnClickListener{
    val id = inputId.text.toString().toUpperCase()
    val nama = inputNama.text.toString()
    val data = HashMap<String, Any>()
    data.put("nama", nama)
    when {
        id.trim().isEmpty() -> {
            Toast.makeText(this@FakultasActivity, "ID Fakultas tidak
boleh kosong!!!", Toast.LENGTH_LONG).show()
        }
        nama.trim().isEmpty() -> {
            Toast.makeText(this@FakultasActivity, "Nama Fakultas
tidak boleh kosong!!!", Toast.LENGTH_LONG).show()
        }
        else -> {
            Save(id, data)
            dialog.dismiss()
        }
    }
}

fun loadData(){
    firestoreListener = firestoreDB!!.collection("fakultas")
        .orderBy("nama", Query.Direction.ASCENDING)
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }

            val fakultasList = mutableListOf<Fakultas>()
            if (documentSnapshots != null) {

```

```

        for (doc in documentSnapshots) {
            val list = doc.toObject(Fakultas::class.java)
            list.id = doc.id
            fakultasList.add(list)
        }
    }

    if (!fakultasList.isEmpty())
        mAdapter = FakultasAdapter(fakultasList,
this@FakultasActivity, firestoreDB!!)
    if (mAdapter != null)
        recycler_view.adapter = mAdapter
        pbLoading.visibility = View.GONE

    })
}

fun Save(id: String, data: HashMap<String, Any>) {
    if (!id.isNullOrEmpty()) {
        firestoreDB!!.collection("fakultas")
            .document(id)
            .set(data, SetOptions.merge())
    }
}
}

```

### 5.8 ForumActivity.kt

```
package com.unibba.traceralumni2019.activity
```

```

import android.Manifest
import android.annotation.SuppressLint
import android.app.Activity
import android.app.DatePickerDialog
import android.content.Intent
import android.graphics.Bitmap
import android.graphics.BitmapFactory
import android.os.Build
import android.os.Bundle
import android.provider.MediaStore
import android.text.InputType
import android.text.TextUtils
import android.util.Log
import android.view.Menu
import android.view.MenuItem
import android.view.View
import android.widget.EditText
import android.widget.Toast
import androidx.annotation.RequiresApi

```

```
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.app.AppCompatActivity
import androidx.core.graphics.drawable.RoundedBitmapDrawableFactory
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.DividerItemDecoration
import androidx.recyclerview.widget.LinearLayoutManager
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions
import com.github.babedev.dexter.dsl.runtimePermission
import com.google.android.material.textfield.TextInputEditText
import com.google.firebase.Timestamp
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.firestore.Query
import com.google.firebase.firestore.SetOptions
import com.google.firebase.storage.FirebaseStorage
import com.google.firebase.storage.StorageReference
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.adapter.ForumKomentarAdapter
import com.unibba.traceralumni2019.model.ForumKomentar
import com.unibba.traceralumni2019.util.MyDividerItemDecoration
import com.unibba.traceralumni2019.util.PageTransformer
import com.unibba.traceralumni2019.util.SessionManager
import com.vanniktech.emoji.EmojiPopup
import kotlinx.android.synthetic.main.activity_forum.*
import java.io.ByteArrayOutputStream
import java.io.IOException
import java.text.SimpleDateFormat
import java.util.*
import kotlin.collections.HashMap
```

```
class ForumActivity : AppCompatActivity() {

    private val TAG = "ForumActivity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private var mAdapterter: ForumKomentarAdapter? = null
    private var komentarList = mutableListOf<ForumKomentar>()
    private var storageReference: StorageReference? = null
    private lateinit var sessionManager: SessionManager
    private lateinit var emojiPopup: EmojiPopup
    private val GALLERY = 1
    private val CAMERA = 2
    var bitmap: Bitmap? = null
    var PICK_IMAGE_REQUEST = 1
    var kategori = ""
    var create = "1"
```



```

var id = ""
var image_url = ""
var judul = ""
var deskripsi = ""
var date = ""
var expired = ""
var uid = ""
var update = "0"

override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_forum)
    firestoreDB = FirebaseFirestore.getInstance()
    storageReference = FirebaseStorage.getInstance().reference
    sessionManager = SessionManager(this)
    setUpEmojiPopup()
    val layoutManager = LinearLayoutManager(applicationContext)
    layoutManager.reverseLayout = true
    recycler_view.layoutManager = layoutManager
    recycler_view.itemAnimator = DefaultItemAnimator()
    pbLoading.visibility = View.GONE
    recycler_view.addItemDecoration(MyDividerItemDecoration(this,
DividerItemDecoration.VERTICAL, 0))

    val intent = intent
    val b = intent.extras
    if (b != null) {
        kategori = b.get("kategori").toString()
        create = b.get("create").toString()
        id = b.get("id").toString()
        image_url = b.get("image_url").toString()
        judul = b.get("judul").toString()
        deskripsi = b.get("deskripsi").toString()
        date = b.get("date").toString()
        expired = b.get("expired").toString()
        uid = b.get("uid").toString()
        update = b.get("update").toString()
    }
    toolbar.title = kategori
    setSupportActionBar(toolbar)
    if (create.equals("1")){
        emoji_bar.visibility = View.GONE
        inputExpired.setOnClickListener {
            showDate(inputExpired)
        }
    }
}

if (!id.equals("")) {

```

```

//load like count
firestoreDB!!.collection("flp")
    .document(id)
    .collection("like")
    .addSnapshotListener(EventListener { documentSnapshots, e ->
        if (e != null) {
            Log.e(TAG, "Listen failed!", e)
            pbLoading.visibility = View.GONE
            return@EventListener
        }
        val count = documentSnapshots?.size()
        textLike.text = "" + count + " Suka"
        textLainnya.text = "Lihat " + count + " Menyukai ini"
    })
//load comment count
firestoreDB!!.collection("flp")
    .document(id)
    .collection("comment")
    .orderBy("date", Query.Direction.DECENDING)
    .addSnapshotListener(EventListener { documentSnapshots, e ->
        if (e != null) {
            Log.e(TAG, "Listen failed!", e)
            pbLoading.visibility = View.GONE
            return@EventListener
        }
        val count = documentSnapshots?.size()
        textKomentar.text = "" + count + " Komentar"

        val komentarList = mutableListOf<ForumKomentar>()
        if (documentSnapshots != null) {
            for (doc in documentSnapshots) {
                val list =
doc.toObject(ForumKomentar::class.java)
                list.id = doc.id
                val sdf1 = SimpleDateFormat("dd/MM/yyyy
HH:mm:ss", Locale.getDefault())
                if (doc.get("date") != null) {
                    val date = doc.get("date") as Timestamp
                    list.dates = sdf1.format(date.toDate())
                }
                komentarList.add(list)
            }
        }
        if (!komentarList.isEmpty())
            mAdapter = ForumKomentarAdapter(komentarList,
applicationContext, firestoreDB!!)
        if (mAdapter != null)
            recycler_view.adapter = mAdapter

```

```

        pbLoading.visibility = View.GONE

    })

}

imageView.setOnClickListener {
    if (!TextUtils.isEmpty(image_url)) {
        val intent = Intent(this, ImageviewActivity::class.java)
        intent.putExtra("image_url", image_url)
        this.startActivity(intent)
    }
}

fab.setOnClickListener {
    showPictureDialog()
}

inputExpired.setText(expired)
inputJudul.setText(judul)
inputDeskripsi.setText(deskripsi)
val placeholder = BitmapFactory.decodeResource(this.resources,
R.drawable.ic_no_image)
val circularBitmapDrawable =
RoundedBitmapDrawableFactory.create(this.resources, placeholder)
circularBitmapDrawable.setCircular(true)
Glide.with(applicationContext).load(image_url)
    .apply(
        RequestOptions()
            .error(circularBitmapDrawable)
            .placeholder(circularBitmapDrawable)
            .circleCrop()
            .centerCrop()
    )
    .apply(RequestOptions.circleCropTransform())
    .into(imageView)

btnKomentar.setOnClickListener {
    if (!editKomentar.text.toString().trim().equals("")) {
        val uid = sessionManager.getLogin().get("nim").toString()
        val data = HashMap<String, Any>()
        data.put("komentar", editKomentar.text.toString())
        data.put("date", Date())
        data.put("uid", uid)
        pbLoading.visibility = View.VISIBLE
        firestoreDB!!.collection("flp")
            .document(id)
            .collection("comment")
            .add(data)
    }
}

```

```

        .addSuccessListener {
            editKomentar.setText("")
            pbLoading.visibility = View.GONE
        }
        .addOnFailureListener {
            //gagal
            Toast.makeText(
                this@ForumActivity,
                "Gagal koneksi ke server,\nSilahkan cek koneksi
dan coba lagi...",
                Toast.LENGTH_SHORT
            ).show()
            pbLoading.visibility = View.GONE
        }
    }

    emojiButton.setOnClickListener {
        this.emojiPopup.toggle()
    }
}

override fun onBackPressed() {
    if (emojiPopup != null && emojiPopup.isShowing) {
        emojiPopup.dismiss()
    } else {
        super.onBackPressed()
    }
}

override fun onStop() {
    if (emojiPopup != null) {
        emojiPopup.dismiss()
    }

    super.onStop()
}

private fun setUpEmojiPopup() {
    emojiPopup = EmojiPopup.Builder.fromRootView(root_layout)
        .setOnEmojiBackspaceClickListener { ignore -> Log.d(TAG, "Clicked
on Backspace") }
        .setOnEmojiClickListener { ignore, ignore2 -> Log.d(TAG, "Clicked
on emoji") }
        .setOnEmojiPopupShownListener
        { emojiButton.setImageResource(R.drawable.ic_keyboard) }
        .setOnSoftKeyboardOpenListener { ignore -> Log.d(TAG, "Opened

```

```

soft keyboard") }
        .setOnEmojiPopupDismissListener
    { emojiButton.setImageResource(R.drawable.emoji_ios_category_smileysandpeople)
    }

        .setOnSoftKeyboardCloseListener { Log.d(TAG, "Closed soft
keyboard") }

        .setKeyboardAnimationStyle(R.style.emoji_fade_animation_style)
        .setPageTransformer(PageTransformer())
        .build(editKomentar)
    }

    override fun onCreateOptionsMenu(menu: Menu): Boolean {
        menuInflater.inflate(R.menu.forum_loker_menu, menu)
        val item = menu.findItem(R.id.menu_simpan)
        val nim = sessionManager.getLogin().get("nim").toString()
        if (create.equals("1") && uid.equals("")) {
            item.isVisible = true
            readonly(true)
            inputExpired.setOnClickListener {
                showDate(inputExpired)
            }
        } else if (create.equals("0") && uid.equals(nim) && update.equals("1")) {
            item.isVisible = true
            readonly(true)
            inputExpired.setOnClickListener {
                showDate(inputExpired)
            }
        } else {
            item.isVisible = false
            readonly(false)
        }
        return true
    }

    @RequiresApi(Build.VERSION_CODES.O)
    override fun onOptionsItemSelected(item: MenuItem): Boolean {
        return when (item.itemId) {
            R.id.menu_simpan -> {
                readonly(false)
                val sdf = SimpleDateFormat("dd/MM/yyyy")
                val judul = inputJudul.text.toString()
                val deskripsi = inputDeskripsi.text.toString()
                val expired = sdf.parse(inputExpired.text.toString())
                val uid = sessionManager.getLogin().get("nim").toString()
                val data = HashMap<String, Any>()
                if (create.equals("1")) {
                    data.put("kategori", kategori)
                    data.put("image_url", image_url)
                }
            }
        }
    }

```

```

        data.put("judul", judul)
        data.put("deskripsi", deskripsi)
        data.put("expired", expired)
        data.put("date", Date())
        data.put("write", Date())
        data.put("uid", uid)
        firestoreDB!!.collection("flp")
            .add(data)
            .addOnSuccessListener { documentReference ->
                pbLoading.visibility = View.GONE
                Log.e(TAG, "DocumentSnapshot written with ID:
" + documentReference.id)

                id = documentReference.id
                bitmap?.let { uploadimage(documentReference.id,
it) }

                Toast.makeText(applicationContext, "Berhasil,
disimpan...", Toast.LENGTH_SHORT).show()
            }
            .addOnFailureListener { e ->
                pbLoading.visibility = View.GONE
                Log.e(TAG, "Error adding Note document", e)
                Toast.makeText(applicationContext, "Gagal,
disimpan!!!", Toast.LENGTH_SHORT).show()
            }
    } else if (create.equals("0")) {
        data.put("kategori", kategori)
        data.put("image_url", image_url)
        data.put("judul", judul)
        data.put("deskripsi", deskripsi)
        data.put("expired", expired)
        data.put("write", Date())
        data.put("uid", uid)
        firestoreDB!!.collection("flp")
            .document(id)
            .set(data, SetOptions.merge())
            .addOnSuccessListener { documentReference ->
                pbLoading.visibility = View.GONE
                Toast.makeText(applicationContext, "Berhasil,
disimpan...", Toast.LENGTH_SHORT).show()
            }
            .addOnFailureListener { e ->
                pbLoading.visibility = View.GONE
                Log.e(TAG, "Error adding Note document", e)
                Toast.makeText(applicationContext, "Gagal,
disimpan!!!", Toast.LENGTH_SHORT).show()
            }
        pbLoading.visibility = View.VISIBLE
    }
}

```

```

        onBackPressed()
        true
    }
    else -> super.onOptionsItemSelected(item)
}
}

@SuppressLint("RestrictedApi")
private fun readonly(b: Boolean) {
    if (b == true) {
        fab.visibility = View.VISIBLE
    } else {
        editDisable(inputExpired)
        editDisable(inputJudul)
        editDisable(inputDeskripsi)
        fab.visibility = View.GONE
    }
}

fun editDisable(edit: TextInputEditText) {
    edit.inputType = InputType.TYPE_NULL
    edit.keyListener = null
    edit.setTextIsSelectable(true)
}

// private fun addData(
//     Kategori: String,
//     Image: String,
//     Judul: String,
//     Deskripsi: String,
//     Expired: String,
//     Date: String,
//     Write: String,
//     Uid: String
// ) {
//     val forum = Forum(Kategori, Image, Judul, Deskripsi, Expired, Date,
// Write, Uid).addToMap()
//     pbLoading.visibility = View.VISIBLE
//     firestoreDB!!.collection("flp")
//         .add(forum)
//         .addOnSuccessListener { documentReference ->
//             pbLoading.visibility = View.GONE
//             Log.e(TAG, "DocumentSnapshot written with ID: " +
// documentReference.id)
//             Toast.makeText(applicationContext, "Note has been added!",
// Toast.LENGTH_SHORT).show()
//         }
//         .addOnFailureListener { e ->
//             pbLoading.visibility = View.GONE

```

```
//          Log.e(TAG, "Error adding Note document", e)
////      Toast.makeText(applicationContext, "Note could not be
added!", Toast.LENGTH_SHORT).show()
//          }
//      }
//
//      private fun updateData(
//          id: String,
//          Kategori: String,
//          Image: String,
//          Judul: String,
//          Deskripsi: String,
//          Expired: String,
//          Write: String,
//          Uid: String
//      ) {
//
//          val forum = Forum(Kategori, Image, Judul, Deskripsi, Expired, Write,
Uid).editToMap()
//          firestoreDB!!.collection("flp")
//              .document(id)
//              .update(forum)
//              .addOnSuccessListener {
//                  Log.e(TAG, "Note document update successful!")
//                  Toast.makeText(applicationContext, "Note has been updated!",
Toast.LENGTH_SHORT).show()
//              }
//              .addOnFailureListener { e ->
//                  Log.e(TAG, "Error adding Note document", e)
//                  Toast.makeText(applicationContext, "Note could not be
updated!", Toast.LENGTH_SHORT).show()
//              }
//      }
//
fun showDate(editText: EditText) {
    var dateFormatter: SimpleDateFormat
    var fromDatePickerDialog: DatePickerDialog
    dateFormatter = SimpleDateFormat("dd/MM/yyyy")

    val newCalendar = Calendar.getInstance()
    if (editText.text.trim().length==10){
        val text = editText.text.split("/")
        newCalendar.set(0+text[2].toInt(), text[1].toInt()-1, 0+text[0].toInt())
    }
    fromDatePickerDialog = DatePickerDialog(
        this,
        DatePickerDialog.OnDateSetListener { view, year, monthOfYear,
dayOfMonth ->
```



```

        newCalendar.set(year, monthOfYear, dayOfMonth)
        editText.setText(dateFormatter.format(newCalendar.time))
    }, newCalendar.get(Calendar.YEAR),
newCalendar.get(Calendar.MONTH),
newCalendar.get(Calendar.DAY_OF_MONTH)
    )
    fromDatePickerDialog.show()
}

private fun showPictureDialog() {
    val pictureDialog = AlertDialog.Builder(this@ForumActivity)
    pictureDialog.setTitle("Unggah Foto")
    val pictureDialogItems = arrayOf("Ambil gambar", "Pilih dari galeri",
"Batal")
    pictureDialog.setItems(
        pictureDialogItems
    ) { dialog, which ->
        when (which) {
            0 -> takePhotoFromCamera()
            1 -> choosePhotoFromGallary()
            2 -> dialog.dismiss()
        }
    }
    pictureDialog.show()
}

fun choosePhotoFromGallary() {
    runtimePermission {
        permissions(Manifest.permission.READ_EXTERNAL_STORAGE,
Manifest.permission.WRITE_EXTERNAL_STORAGE) {
            checked {
                val galleryIntent = Intent(
                    Intent.ACTION_PICK,
MediaStore.Images.Media.EXTERNAL_CONTENT_URI
                )
                startActivityForResult(galleryIntent, GALLERY)
            }
        }
    }
    // Toast.makeText(this@ImageviewActivity, "Permission
checked", Toast.LENGTH_LONG).show()
}

}

private fun takePhotoFromCamera() {
    runtimePermission {
        permissions(Manifest.permission.CAMERA) {
            checked {

```

```

        val intent =
Intent(MediaStore.ACTION_IMAGE_CAPTURE)
        startActivityForResult(intent, CAMERA)
//        Toast.makeText(this@ImageviewActivity, "Permission
checked", Toast.LENGTH_LONG).show()
    }
}

}

}

override fun onActivityResult(requestCode: Int, resultCode: Int, data: Intent?) {

    super.onActivityResult(requestCode, resultCode, data)

    if (requestCode == GALLERY && resultCode == Activity.RESULT_OK
&& data != null && data.data != null) {
        val contentURI = data.data
        try {
            bitmap =
MediaStore.Images.Media.getBitmap(this@ForumActivity.contentResolver,
contentURI)
            if (bitmap != null) {
                if (!id.isNullOrEmpty() && create.equals("0"))
                    uploadimage(id, bitmap!!)
                val placeholder =
BitmapFactory.decodeResource(this.resources, R.drawable.ic_no_image)
                val circularBitmapDrawable =
RoundedBitmapDrawableFactory.create(this.resources, placeholder)
                circularBitmapDrawable.setCircular(true)
                Glide.with(applicationContext).load(bitmap)
                    .apply(
                        RequestOptions()
                            .error(circularBitmapDrawable)
                            .placeholder(circularBitmapDrawable)
                            .circleCrop()
                            .centerCrop()
                    )
                    .apply(RequestOptions.circleCropTransform())
                    .into(imageView)
            }
        } catch (e: IOException) {
            e.printStackTrace()
            Toast.makeText(this@ForumActivity, "Failed!",
Toast.LENGTH_SHORT).show()
        }

    } else if (requestCode == CAMERA && resultCode ==

```

```

Activity.RESULT_OK && data != null) {
    bitmap = data.extras!!.get("data") as Bitmap
    if (bitmap != null) {
        if (!id.isNullOrEmpty() && create.equals("0"))
            uploadimage(id, bitmap!!)
        val placeholder = BitmapFactory.decodeResource(this.resources,
R.drawable.ic_no_image)
        val circularBitmapDrawable =
RoundedBitmapDrawableFactory.create(this.resources, placeholder)
        circularBitmapDrawable.setCircular(true)
        Glide.with(applicationContext).load(bitmap)
            .apply(
                RequestOptions()
                    .error(circularBitmapDrawable)
                    .placeholder(circularBitmapDrawable)
                    .circleCrop()
                    .centerCrop()
            )
            .apply(RequestOptions.circleCropTransform())
            .into(imageView)
    }
}

fun uploadimage(id: String, bitmap: Bitmap) {
    if (bitmap != null) {
        val baos = ByteArrayOutputStream()
        bitmap.compress(Bitmap.CompressFormat.JPEG, 50, baos)
        val kat = kategori.toLowerCase()
        val data: ByteArray = baos.toByteArray()
        val ref = storageReference!!.child("images/" + kat + "/" + id + ".jpg")
        val uploadTask = ref.putBytes(data)
        uploadTask.addOnSuccessListener { task ->
            ref.downloadUrl
                .addOnSuccessListener { uri ->
                    saveimageurl(id, uri.toString())
                }
        }
    }
}

fun saveimageurl(id: String, url: String) {
    val data = HashMap<String, Any>()
    data.put("image_url", url)
    firestoreDB!!.collection("flp")
        .document(id)
        .set(data, SetOptions.merge())
}

```

```
}
```

### 5.9 ImageviewActivity.kt

```
package com.unibba.traceralumni2019.activity

import android.Manifest
import android.content.Intent
import android.graphics.Bitmap
import android.graphics.drawable.BitmapDrawable
import android.net.Uri
import android.os.Bundle
import android.provider.MediaStore
import android.view.Menu
import android.view.MenuItem
import android.view.View
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import com.bumptech.glide.Glide
import com.github.babedev.dexter.dsl.runtimePermission
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_imageview.*
import java.text.SimpleDateFormat

class ImageviewActivity : AppCompatActivity() {

    private lateinit var sessionManager: SessionManager
    var image_url = ""

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_imageview)
        sessionManager = SessionManager(this)
        setSupportActionBar(toolbar)
        supportActionBar!!.setDisplayHomeAsUpEnabled(false)
        supportActionBar!!.setDisplayShowTitleEnabled(false)
        toolbar.setNavigationIcon(R.drawable.ic_arrow_back_white_24dp)
        toolbar.setNavigationOnClickListener {
            onBackPressed()
        }

        runtimePermission {
            permissions(Manifest.permission.READ_EXTERNAL_STORAGE,
            Manifest.permission.WRITE_EXTERNAL_STORAGE) {
                checked {
                    // Toast.makeText(this@ImageviewActivity, "Permission
```

```

checked", Toast.LENGTH_LONG).show()
        }
    }
}

val intent = intent
val b = intent.extras
if (b != null) {
    image_url = b.get("image_url").toString()
    Glide.with(this)
        .load(image_url)
        .into(imageView)
}
pbLoading.visibility = View.GONE
}

override fun onCreateOptionsMenu(menu: Menu): Boolean {
    menuInflater.inflate(R.menu.viewimage_menu, menu)
    return true
}

override fun onOptionsItemSelected(item: MenuItem): Boolean {
    return when (item.itemId) {
        R.id.menu_save -> {
            val drawable = imageView.drawable as BitmapDrawable
            val bitmap = drawable.bitmap
            val timeStamp = SimpleDateFormat("yyyyMMdd_HH:mm:ss")
                .format(System.currentTimeMillis())
            // Save the image to gallery and get saved image Uri
            val uri = saveImage(bitmap, "image_" + timeStamp)
            Toast.makeText(applicationContext, "saved : $uri",
Toast.LENGTH_LONG).show()
            true
        }
        R.id.menu_share -> {
            val myDrawable = imageView.drawable
            val bitmap = (myDrawable as BitmapDrawable).bitmap
            //share
            try {
                val path =
MediaStore.Images.Media.insertImage(contentResolver, bitmap, "Image
Description", null)
                val uri = Uri.parse(path)
                val intent = Intent(Intent.ACTION_SEND)
                intent.type = "image/jpeg"
                intent.putExtra(Intent.EXTRA_STREAM, uri)
                startActivity(Intent.createChooser(intent, "Share Image"))
            } catch (e: Exception) {

```

```

        e.printStackTrace()
    }
    true
}
else -> super.onOptionsItemSelected(item)
}
}

// Method to save an image to gallery and return uri
private fun saveImage(bitmap: Bitmap, title: String): Uri {
    // Save image to gallery
    val savedImageURL = MediaStore.Images.Media.insertImage(
        contentResolver,
        bitmap,
        title,
        "Image of $title"
    )
    // Parse the gallery image url to uri
    return Uri.parse(savedImageURL)
}
}

```

#### 5.10 LaporanDataAlumniActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.os.Bundle
import android.util.Log
import android.view.Menu
import android.view.MenuItem
import android.view.View
import androidx.appcompat.app.AppCompatActivity
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.LinearLayoutManager
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.adapter.ListAlumniAdapter
import com.unibba.traceralumni2019.model.ListAlumni
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_laporan_data_alumni.*

class LaporanDataAlumniActivity : AppCompatActivity() {

    private val TAG = "ListAlumniActivity"
    private lateinit var sessionManager: SessionManager
    private var mAdapterter: ListAlumniAdapter? = null

```

```

private var firestoreDB: FirebaseFirestore? = null
private var firestoreListener: ListenerRegistration? = null

override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_laporan_data_alumni)
    toolbar.title = "Data Alumni"
    setSupportActionBar(toolbar)
    firestoreDB = FirebaseFirestore.getInstance()
    sessionManager = SessionManager(applicationContext)
    recycler_view.layoutManager = LinearLayoutManager(applicationContext)
    recycler_view.itemAnimator = DefaultItemAnimator()
    pbLoading.visibility = View.VISIBLE
    getdata()
}

fun getdata() {
    firestoreListener = firestoreDB!!.collection("alumni")
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }
            val alumniList = mutableListOf<ListAlumni>()
            //looping list alumni
            if (documentSnapshots != null) {
                for (doc in documentSnapshots) {
                    val list = doc.toObject(ListAlumni::class.java)
                    list.id = doc.id
                    alumniList.add(list)
                }
            }
            if (!alumniList.isNullOrEmpty())
                mAdapter = ListAlumniAdapter(alumniList,
applicationContext, firestoreDB!!)

            if (mAdapter != null)
                recycler_view.adapter = mAdapter
            pbLoading.visibility = View.GONE
        })
}

override fun onDestroy() {
    super.onDestroy()
    if (firestoreListener != null)
        firestoreListener!!.remove()
}

```

```

        override fun onCreateOptionsMenu(menu: Menu): Boolean {
            menuInflater.inflate(R.menu.laporan_menu, menu)
            return true
        }

        override fun onOptionsItemSelected(item: MenuItem): Boolean {
            when (item.itemId) {
                R.id.export_excel -> {
                }
                R.id.export_csv -> {
                }
                R.id.export_pdf -> {
                }
            }
            return true
        }
    }
}

```

#### 5.11 LaporanRekapDataTracerAlumniActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.annotation.SuppressLint
import android.os.Bundle
import android.util.Log
import android.view.Menu
import android.view.MenuItem
import androidx.appcompat.app.AppCompatActivity
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.LinearLayoutManager
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.firestore.Query
import com.google.firebase.firestore.QuerySnapshot
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.adapter.DayaSaingLulusanAdapter
import com.unibba.traceralumni2019.adapter.F2KepuasanPenggunaLulusanAdapter
import com.unibba.traceralumni2019.adapter.F3InfoMasaTungguKerjaAdapter
import com.unibba.traceralumni2019.adapter.RespondenAdapter
import com.unibba.traceralumni2019.model.DayaSaingLulusan
import com.unibba.traceralumni2019.model.F2KepuasanPengguna
import com.unibba.traceralumni2019.model.F3InfoMasaTungguKerja
import com.unibba.traceralumni2019.model.Responden
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_laporan_rekap_data_tracer_alumni.*
import java.text.DecimalFormat
import java.text.SimpleDateFormat

```



```

import java.util.*

class LaporanRekapDataTracerAlumniActivity : AppCompatActivity() {

    private val TAG = "LaporanRekapDataTracerAlumniActivity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var sessionManager: SessionManager
    private lateinit var nim_s: String
    private var mAdapter1: RespondenAdapter? = null
    private var mAdapter2: F3InfoMasaTungguKerjaAdapter? = null
    private var mAdapter3: F2KepuasanPenggunaLulusanAdapter? = null
    private var mAdapter4: DayaSaingLulusanAdapter? = null
    var formatdecimal = DecimalFormat("0.00")

    @SuppressWarnings("LongLogTag")
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_laporan_rekap_data_tracer_alumni)
        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(applicationContext)
        nim_s = sessionManager.getLogin().get("nim").toString()
        toolbar.title = "Rekap Data Tracer Alumni"
        setSupportActionBar(toolbar)

        val layoutManager1 = LinearLayoutManager(applicationContext)
        rv_responden.layoutManager = layoutManager1
        rv_responden.itemAnimator = DefaultItemAnimator()

        val layoutManager2 = LinearLayoutManager(applicationContext)
        rv_informasi_masa_tunggu_kerja.layoutManager = layoutManager2
        rv_informasi_masa_tunggu_kerja.itemAnimator = DefaultItemAnimator()

        val layoutManager3 = LinearLayoutManager(applicationContext)
        rv_kepuasan_lulusan.layoutManager = layoutManager3
        rv_kepuasan_lulusan.itemAnimator = DefaultItemAnimator()

        val layoutManager4 = LinearLayoutManager(applicationContext)
        rv_daya_saing_lulusan.layoutManager = layoutManager4
        rv_daya_saing_lulusan.itemAnimator = DefaultItemAnimator()

        val sdf = SimpleDateFormat("yyyy")
        texttahun.setText(sdf.format(Date()))
        alumni(texttahun.text.toString().toInt())
        btnfilter.setOnClickListener {
            alumni(texttahun.text.toString().toInt())
        }
    }
}

```

```

@SuppressLint("LongLogTag")
fun alumni(tahun: Int) {
    firestoreListener = firestoreDB!!
        .collection("alumni")
//        .whereLessThanOrEqualTo("angkatan", tahun)
        .orderBy("angkatan", Query.Direction.DESCENDING)
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
//                pbLoading.visibility = View.GONE
                return@EventListener
            }

            if (documentSnapshots != null) {
                Responden(documentSnapshots)
                Tracerstudy(tahun, documentSnapshots.size())
            }
        })
}

@SuppressLint("LongLogTag")
fun Tracerstudy(tahun: Int, total: Int) {
    firestoreListener = firestoreDB!!
        .collection("tracerstudy")
        .whereLessThanOrEqualTo("angkatan", tahun)
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
//                pbLoading.visibility = View.GONE
                return@EventListener
            }
            if (documentSnapshots != null) {
                KepuasanPenggunaLulusan(documentSnapshots, total)
                MasaTungguKerja(documentSnapshots, total)
            }
        })
}

@SuppressLint("LongLogTag")
fun Responden(document: QuerySnapshot) {
    var ts = ""
    var akt = ""
    var total = document.size()
    var jumlah = 0
    var respon = 0
    var pos = 0
    var respondenList = mutableListOf<Responden>()

```

[illegible]

```

        )
        val list2 = Responden(
            "Jumlah Responden
Tahun " + akt + "\n(Jumlah lulusan yang terkontak/yang menjawab survei)",
            "" + respon + " ",
            "" + hasil2 + "% "
        )
        respondenList.add(list1)
        respondenList.add(list2)

        akt = angkatan
        jumlah = 0
        respon = 1
    }
    } else {
        val hasil1 =
formatdecimal.format(((jumlah + respon) * 100.0f) / total)
        val hasil2 =
formatdecimal.format((respon * 100.0f) / total)
        // System.out.println("hasil1=>" + hasil1 + "
hasil2=>" + hasil2)

        val list1 = Responden(
            "Jumlah Lulusan Tahun "
+ akt + " (Seluruh Prodi S1)",
            "" + (jumlah + respon) + "
",
            "" + hasil1 + "% "
        )
        val list2 = Responden(
            "Jumlah Responden
Tahun " + akt + "\n(Jumlah lulusan yang terkontak/yang menjawab survei)",
            "" + respon + " ",
            "" + hasil2 + "% "
        )
        respondenList.add(list1)
        respondenList.add(list2)

        akt = angkatan
        jumlah = 0
        respon = 1
        if (pos == total) {
            val list1 = Responden(
                "Jumlah Lulusan
Tahun " + akt + " (Seluruh Prodi S1)",
                "" + (jumlah +
respon) + " ",
                "" + hasil1 + "% "
            )

```

```

    )
    val list2 = Responden(
        "Jumlah Responden
Tahun " + akt + "\n(Jumlah lulusan yang terkontak/yang menjawab survei)",
        "" + respon + " ",
        "" + hasil2 + "% "
    )
    respondenList.add(list1)
    respondenList.add(list2)

    akt = angkatan
    jumlah = 0
    respon = 1
}
}
}
}
}
//
//
//
//
//
})
if (!respondenList.isNullOrEmpty())
    mAdapter1 = RespondenAdapter(respondenList, applicationContext,
firebaseDB!!)
    if (mAdapter1 != null)
        rv_responden.adapter = mAdapter1
}

fun MasaTungguKerja(document: QuerySnapshot, total: Int) {
    var F3_1 = 0
    var F3_2 = 0
    var F3_3 = 0
    var F3_4 = 0
    val F3List = mutableListOf<F3InfoMasaTungguKerja>()
    for (doc in document) {
        if (doc.get("F3") != null) {
            if (doc.get("F3").toString().equals("0")) {
                F3_1++
            } else if (doc.get("F3").toString().equals("1")) {
                F3_2++
            } else if (doc.get("F3").toString().equals("2")) {
                F3_3++
            } else if (doc.get("F3").toString().equals("3")) {
                F3_4++
            }
        }
    }
}
}

```

```

        val p1 = formatdecimal.format((F3_1 * 100.0f) / total)
        val p2 = formatdecimal.format((F3_2 * 100.0f) / total)
        val p3 = formatdecimal.format((F3_3 * 100.0f) / total)
        val p4 = formatdecimal.format((F3_4 * 100.0f) / total)
        val list1 = F3InfoMasaTungguKerja(
            "(a) Sebelum lulus s/d. 2 bulan setelah lulus",
            "" + F3_1 + " ",
            "" + p1 + "% "
        )
        val list2 = F3InfoMasaTungguKerja("(b) 3 - 8 bulan setelah lulus", "" +
F3_2 + " ", "" + p2 + "% ")
        val list3 = F3InfoMasaTungguKerja("(c) Diatas 8 bulan setelah lulus", "" +
F3_3 + " ", "" + p3 + "% ")
        val list4 = F3InfoMasaTungguKerja(
            "(d) Saya tidak mencari kerja (langsung ke F8)",
            "" + F3_4 + " ",
            "" + p4 + "% "
        )
        F3List.add(list1)
        F3List.add(list2)
        F3List.add(list3)
        F3List.add(list4)
        if (!F3List.isNullOrEmpty())
            mAdapter2 = F3InfoMasaTungguKerjaAdapter(F3List,
applicationContext, firestoreDB!!)
            if (mAdapter2 != null)
                rv_informasi_masa_tunggu_kerja.adapter = mAdapter2
    }

fun DayaSaingLulusan(document: QuerySnapshot) {
    var tahun = texttahun.text.toString().toInt()
    var thn1 = (tahun - 4)
    var thn2 = (tahun - 3)
    var thn3 = (tahun - 2)
    var jumlahdyl1 = 0
    var jumlahdyl2 = 0
    var jumlahdyl3 = 0
    var jumlahdyl4 = 0
    var jumlahdyl5 = 0
    var jumlahdyl6 = 0
    val dayasainglulusanList = mutableListOf<DayaSaingLulusan>()

    val dyl = DayaSaingLulusan(
        "1",
        "Sarjana/ Sarjana Terapan",
        "" + jumlahdyl1,
        "" + jumlahdyl2,

```

```

        "" + jumlahdyl3,
        "" + jumlahdyl4,
        "" + jumlahdyl5,
        "" + jumlahdyl6
    )
    dayasainglulusanList.add(dyl)

    if (!dayasainglulusanList.isNullOrEmpty())
        mAdapter4 = DayaSaingLulusanAdapter(dayasainglulusanList,
applicationContext, firestoreDB!!)
        if (mAdapter4 != null)
            rv_daya_saing_lulusan.adapter = mAdapter4
    }

    fun WaktuTungguLulusan(document: QuerySnapshot) {
        val count = 0
    }

    fun KesesuaianBidangKerjaLulusan(document: QuerySnapshot) {
        val count = 0
    }

    fun KinerjaLulusan(document: QuerySnapshot) {
        val count = 0
    }

    fun KepuasanPenggunaLulusan(document: QuerySnapshot, total: Int) {
        var F2_8_1 = 0
        var F2_8_2 = 0
        var F2_8_3 = 0
        var F2_8_4 = 0
        var F2_9_1 = 0
        var F2_9_2 = 0
        var F2_9_3 = 0
        var F2_9_4 = 0
        var F2_10_1 = 0
        var F2_10_2 = 0
        var F2_10_3 = 0
        var F2_10_4 = 0
        var F2_11_1 = 0
        var F2_11_2 = 0
        var F2_11_3 = 0
        var F2_11_4 = 0
        var F2_12_1 = 0
        var F2_12_2 = 0
        var F2_12_3 = 0
        var F2_12_4 = 0
        var F2_13_1 = 0
    }

```

```

var F2_13_2 = 0
var F2_13_3 = 0
var F2_13_4 = 0
var F2_14_1 = 0
var F2_14_2 = 0
var F2_14_3 = 0
var F2_14_4 = 0

val F2List = mutableListOf<F2KepuasanPengguna>()

for (doc in document) {
    if (doc.get("F2_8") != null) {
        if (doc.get("F2_8").toString().equals("1")) {
            F2_8_1++
        } else if (doc.get("F2_8").toString().equals("2")) {
            F2_8_2++
        } else if (doc.get("F2_8").toString().equals("3")) {
            F2_8_3++
        } else if (doc.get("F2_8").toString().equals("4")) {
            F2_8_4++
        }
    }
    if (doc.get("F2_9") != null) {
        if (doc.get("F2_9").toString().equals("1")) {
            F2_9_1++
        } else if (doc.get("F2_9").toString().equals("2")) {
            F2_9_2++
        } else if (doc.get("F2_9").toString().equals("3")) {
            F2_9_3++
        } else if (doc.get("F2_9").toString().equals("4")) {
            F2_9_4++
        }
    }
    if (doc.get("F2_10") != null) {
        if (doc.get("F2_10").toString().equals("1")) {
            F2_10_1++
        } else if (doc.get("F2_10").toString().equals("2")) {
            F2_10_2++
        } else if (doc.get("F2_10").toString().equals("3")) {
            F2_10_3++
        } else if (doc.get("F2_10").toString().equals("4")) {
            F2_10_4++
        }
    }
    if (doc.get("F2_11") != null) {
        if (doc.get("F2_11").toString().equals("1")) {
            F2_11_1++
        } else if (doc.get("F2_11").toString().equals("2")) {

```



```

        F2_11_2++
    } else if (doc.get("F2_11").toString().equals("3")) {
        F2_11_3++
    } else if (doc.get("F2_11").toString().equals("4")) {
        F2_11_4++
    }
}
if (doc.get("F2_12") != null) {
    if (doc.get("F2_12").toString().equals("1")) {
        F2_12_1++
    } else if (doc.get("F2_12").toString().equals("2")) {
        F2_12_2++
    } else if (doc.get("F2_12").toString().equals("3")) {
        F2_12_3++
    } else if (doc.get("F2_12").toString().equals("4")) {
        F2_12_4++
    }
}
if (doc.get("F2_13") != null) {
    if (doc.get("F2_13").toString().equals("1")) {
        F2_13_1++
    } else if (doc.get("F2_13").toString().equals("2")) {
        F2_13_2++
    } else if (doc.get("F2_13").toString().equals("3")) {
        F2_13_3++
    } else if (doc.get("F2_13").toString().equals("4")) {
        F2_13_4++
    }
}
if (doc.get("F2_14") != null) {
    if (doc.get("F2_14").toString().equals("1")) {
        F2_14_1++
    } else if (doc.get("F2_14").toString().equals("2")) {
        F2_14_2++
    } else if (doc.get("F2_14").toString().equals("3")) {
        F2_14_3++
    } else if (doc.get("F2_14").toString().equals("4")) {
        F2_14_4++
    }
}
}

val p81 = formatdecimal.format((F2_8_1 * 100.0f) / total)
val p82 = formatdecimal.format((F2_8_2 * 100.0f) / total)
val p83 = formatdecimal.format((F2_8_3 * 100.0f) / total)
val p84 = formatdecimal.format((F2_8_4 * 100.0f) / total)

val p91 = formatdecimal.format((F2_9_1 * 100.0f) / total)

```

```

val p92 = formatdecimal.format((F2_9_2 * 100.0f) / total)
val p93 = formatdecimal.format((F2_9_3 * 100.0f) / total)
val p94 = formatdecimal.format((F2_9_4 * 100.0f) / total)

val p101 = formatdecimal.format((F2_10_1 * 100.0f) / total)
val p102 = formatdecimal.format((F2_10_2 * 100.0f) / total)
val p103 = formatdecimal.format((F2_10_3 * 100.0f) / total)
val p104 = formatdecimal.format((F2_10_4 * 100.0f) / total)

val p111 = formatdecimal.format((F2_11_1 * 100.0f) / total)
val p112 = formatdecimal.format((F2_11_2 * 100.0f) / total)
val p113 = formatdecimal.format((F2_11_3 * 100.0f) / total)
val p114 = formatdecimal.format((F2_11_4 * 100.0f) / total)

val p121 = formatdecimal.format((F2_12_1 * 100.0f) / total)
val p122 = formatdecimal.format((F2_12_2 * 100.0f) / total)
val p123 = formatdecimal.format((F2_12_3 * 100.0f) / total)
val p124 = formatdecimal.format((F2_12_4 * 100.0f) / total)

val p131 = formatdecimal.format((F2_13_1 * 100.0f) / total)
val p132 = formatdecimal.format((F2_13_2 * 100.0f) / total)
val p133 = formatdecimal.format((F2_13_3 * 100.0f) / total)
val p134 = formatdecimal.format((F2_13_4 * 100.0f) / total)

val p141 = formatdecimal.format((F2_14_1 * 100.0f) / total)
val p142 = formatdecimal.format((F2_14_2 * 100.0f) / total)
val p143 = formatdecimal.format((F2_14_3 * 100.0f) / total)
val p144 = formatdecimal.format((F2_14_4 * 100.0f) / total)

val F2list1 = F2KepuasanPengguna(
    "1",
    "Etika",
    "" + p81 + "% ",
    "" + p82 + "% ",
    "" + p83 + "% ",
    "" + p84 + "% "
)
val F2list2 = F2KepuasanPengguna(
    "2",
    "Keahlian pada bidang ilmu (kompetensi utama)",
    "" + p91 + "% ",
    "" + p92 + "% ",
    "" + p93 + "% ",
    "" + p94 + "% "
)
val F2list3 = F2KepuasanPengguna(
    "3",
    "Kemampuan berbahasa asing",

```

```

        "" + p101 + "% ",
        "" + p102 + "% ",
        "" + p103 + "% ",
        "" + p104 + "% "
    )
    val F2list4 = F2KepuasanPengguna(
        "4",
        "Penggunaan teknologi informasi",
        "" + p111 + "% ",
        "" + p112 + "% ",
        "" + p113 + "% ",
        "" + p114 + "% "
    )
    val F2list5 = F2KepuasanPengguna(
        "5",
        "Kemampuan berkomunikasi",
        "" + p121 + "% ",
        "" + p122 + "% ",
        "" + p123 + "% ",
        "" + p124 + "% "
    )
    val F2list6 = F2KepuasanPengguna(
        "6",
        "Kerjasama",
        "" + p131 + "% ",
        "" + p132 + "% ",
        "" + p133 + "% ",
        "" + p134 + "% "
    )
    val F2list7 = F2KepuasanPengguna(
        "7",
        "Pengembangan diri",
        "" + p141 + "% ",
        "" + p142 + "% ",
        "" + p143 + "% ",
        "" + p144 + "% "
    )

    F2List.add(F2list1)
    F2List.add(F2list2)
    F2List.add(F2list3)
    F2List.add(F2list4)
    F2List.add(F2list5)
    F2List.add(F2list6)
    F2List.add(F2list7)

    if (!F2List.isEmpty())
        mAdapter3 = F2KepuasanPenggunaLulusanAdapter(F2List,

```

```

applicationContext, firestoreDB!!)
    if (mAdapter3 != null)
        rv_kepuasan_lulusan.adapter = mAdapter3
    }

    override fun onDestroy() {
        super.onDestroy()
        if (firestoreListener != null)
            firestoreListener!!.remove()
    }

    override fun onCreateOptionsMenu(menu: Menu): Boolean {
        menuInflater.inflate(R.menu.laporan_menu, menu)
        return true
    }

    override fun onOptionsItemSelected(item: MenuItem): Boolean {
        when (item.itemId) {
            R.id.export_excel -> {
            }
            R.id.export_csv -> {
            }
            R.id.export_pdf -> {
            }
        }
        return true
    }
}

```

## 5.12 ListAlumniActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.content.Context
import android.os.Bundle
import android.util.Log
import android.view.LayoutInflater
import android.view.Menu
import android.view.MenuItem
import android.view.View
import android.widget.EditText
import android.widget.Spinner
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.app.AppCompatActivity
import androidx.appcompat.widget.SearchView
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.LinearLayoutManager
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore

```

```

import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.firestore.Query
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.adapter.ListAlumniAdapter
import com.unibba.traceralumni2019.model.ListAlumni
import com.unibba.traceralumni2019.util.Run
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_list_alumni.*

class ListAlumniActivity : AppCompatActivity() {

    private val TAG = "ListAlumniActivity"
    private lateinit var sessionManager: SessionManager
    private var mAdapterter: ListAlumniAdapter? = null
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    var page_menu = ""
    var textcari = ""
    var angkatan = ""

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_list_alumni)
        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(applicationContext)
        recycler_view.layoutManager = LinearLayoutManager(applicationContext)
        recycler_view.itemAnimator = DefaultItemAnimator()
        pbLoading.visibility = View.VISIBLE
        val intent = intent
        val b = intent.extras
        if (b != null) {
            if (b.get("angkatan") != null)
                angkatan = b.get("angkatan").toString()
            if (b.get("page_menu") != null)
                page_menu = b.get("page_menu").toString()
            if (b.get("textcari") != null)
                textcari = b.get("textcari").toString()
        }

        var fDB = firestoreDB!!.collection("alumni")
        var fQuery: Query
        if (page_menu.equals("user_belum_tracer")) {
            toolbar.title = "Belum mengisi Tracer Alumni"
            fQuery = fDB.whereEqualTo("TS_1", 0)
                .whereEqualTo("TS_2", 0)
                .whereEqualTo("TS_3", 0)
        } else if (page_menu.equals("user_cari")) {
            toolbar.title = "Alumni"
        }
    }
}

```

```

        fQuery = fDB
    } else {
        fQuery = fDB.whereEqualTo("angkatan", angkatan.toInt())
        toolbar.title = "Alumni Angkatan " + angkatan
    }

    firestoreListener = fQuery
        .orderBy("prodi", Query.Direction.ASCENDING)
        .orderBy("nim", Query.Direction.ASCENDING)
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }
            val alumniList = mutableListOf<ListAlumni>()
            //looping list alumni
            if (documentSnapshots != null) {
                for (doc in documentSnapshots) {
                    val list = doc.toObject(ListAlumni::class.java)
                    list.id = doc.id
                    alumniList.add(list)
                }
            }
            if (!alumniList.isNullOrEmpty())
                mAdapter = ListAlumniAdapter(alumniList,
applicationContext, firestoreDB!!)

            if (mAdapter != null) {
                recycler_view.adapter = mAdapter
                texttotal.text = "Total " + mAdapter!!.itemCount
            } else {
                texttotal.text = "Total 0"
            }
            pbLoading.visibility = View.GONE
        })
    setSupportActionBar(toolbar)
}

override fun onDestroy() {
    super.onDestroy()
    if (firestoreListener != null)
        firestoreListener!!.remove()
}

fun dialog_cari() {
    val inflater =
this.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as LayoutInflater

```

```

false)    val formsView = inflater.inflate(R.layout.dialog_angkatan_search, null,
          false)
          var prodi: Spinner
          var nim_nama: Spinner
          var textcari: EditText
          prodi = formsView.findViewById(R.id.prodi)
          nim_nama = formsView.findViewById(R.id.nim_nama)
          textcari = formsView.findViewById(R.id.textCari)

          val builder = AlertDialog.Builder(this@ListAlumniActivity)
          builder.setTitle("Pencarian")
          builder.setView(formsView)
          builder.setCancelable(false)
          builder.setPositiveButton("Kembali", { dialog, which -> })
          builder.setNegativeButton("Cari", { dialog, which ->
            })
          builder.show()

        }

        override fun onPrepareOptionsMenu(menu: Menu): Boolean {
            val item = menu.findItem(R.id.action_search)
            val searchView = item.actionView as SearchView
            System.out.println("textcari1=>" + textcari)

            if (!textcari.equals("")) {
                searchView.setQuery(textcari, false)
                item.expandActionView()
                invalidateOptionsMenu()
            }
            searchView.setOnQueryTextListener(object :
SearchView.OnQueryTextListener {
                override fun onQueryTextSubmit(query: String): Boolean {
                    System.out.println("textcari1onQueryTextSubmit=>" + textcari)
                    return false
                }

                override fun onQueryTextChange(query: String): Boolean {
                    System.out.println("textcari1onQueryTextChange=>" + textcari)
                    //FILTER AS YOU TYPE
                    Run.after(1000, {
                        if (mAdapter != null) {
                            mAdapter!!.getFilter().filter(query)
                            Run.after(1000, {
                                texttotal.text = "Total " + mAdapter!!.itemCount
                            })
                        } else {
                            texttotal.text = "Total 0"
                        }
                    })
                }
            })
        }
    }
}

```

```

        })
    })

    return false
}

})
return super.onPrepareOptionsMenu(menu)
}

override fun onCreateOptionsMenu(menu: Menu): Boolean {
    menuInflater.inflate(R.menu.menu_search, menu)
    val item = menu.findItem(R.id.action_search)
    val searchView = item.actionView as SearchView
    System.out.println("textcari2=>" + textcari)
    if (!textcari.equals("")) {
        searchView.setQuery(textcari, false)
        item.expandActionView()
//        invalidateOptionsMenu()
    }
    searchView.setOnQueryTextListener(object :
SearchView.OnQueryTextListener {
        override fun onQueryTextSubmit(query: String): Boolean {
            System.out.println("textcari2onQueryTextSubmit=>" + textcari)
            return false
        }

        override fun onQueryTextChange(query: String): Boolean {
            System.out.println("textcari2onQueryTextChange=>" + textcari)

            //FILTER AS YOU TYPE
            Run.after(1000, {
                if (mAdapter != null) {
                    mAdapter!!.getFilter().filter(query)
                    Run.after(1000, {
                        texttotal.text = "Total " + mAdapter!!.itemCount
                    })
                } else {
                    texttotal.text = "Total 0"
                }
            })

            return false
        }
    })
    return super.onCreateOptionsMenu(menu)
}

override fun onOptionsItemSelected(item: MenuItem): Boolean {

```



```

        // Handle action bar item clicks here. The action bar will
        // automatically handle clicks on the Home/Up button, so long
        // as you specify a parent activity in AndroidManifest.xml.
        val id = item.itemId
        return true
    }
}

```

### 5.13 LoginActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.content.Intent
import android.os.Bundle
import android.text.TextUtils
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.InternetCheck
import com.unibba.traceralumni2019.util.SessionManager
import dmax.dialog.SpotsDialog
import kotlinx.android.synthetic.main.activity_login.*

class LoginActivity : AppCompatActivity() {

    private val TAG = "LoginActivity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var sessionManager: SessionManager
    private lateinit var internetCheck: InternetCheck
    private lateinit var auth: FirebaseAuth

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_login)
        firestoreDB = FirebaseFirestore.getInstance()
        auth = FirebaseAuth.getInstance()
        sessionManager = SessionManager(this)
        internetCheck = InternetCheck()
        internetCheck.connect(this)
        btnLogin.setOnClickListener {
            val email = inputEmail.text.toString()
            val password = inputPassword.text.toString()
            if (email.isEmpty() || password.isEmpty()) {

```

```

        Toast.makeText(this, "Email / Password tidak boleh kosong!!!",
Toast.LENGTH_SHORT).show()
        return@setOnClickListener
    }
    val dialog: android.app.AlertDialog? = SpotsDialog.Builder()
        .setContext(this)
        .setMessage("Loading...")
        .setCancelable(false)
        .build()
        .apply { show() }
//    val dialog = GifDialog.with(this)
//    dialog.isCancelable(false)
//    .setText("Verifikasi...")
//    .setTextSize(12)
//    .setTextBackgroundColor(ContextCompat.getColor(this,
android.R.color.transparent))
//    .setTextColor(ContextCompat.getColor(this,
android.R.color.background_light))
//    .setResourceId(R.drawable.unibba_loading)
//    .showDialog(TAG)
    auth.signInWithEmailAndPassword(email, password)
        .addOnCompleteListener { authResult ->
            if (authResult.isSuccessful) {
                firestoreDB!!.collection("users")
                    .whereEqualTo("email", email)
                    .get()
                    .addOnSuccessListener { task ->
//                        dialog.dismissDialog(TAG)
                        dialog?.dismiss()
                        var nim = ""
                        var nama = ""
                        var email = ""
                        var akses = ""
                        for (doc in task) {
                            if (doc.get("nim") != null)
                                nim = doc.get("nim").toString()
                            if (doc.get("nama") != null)
                                nama = doc.get("nama").toString()
                            if (doc.get("email") != null)
                                email = doc.get("email").toString()
                            if (doc.get("akses") != null)
                                akses = doc.get("akses").toString()
                        }
                        sessionManager.setLogin(
                            "" + auth.uid,
                            "" + nim,
                            "" + nama,
                            "" + email,

```

```

        "" + akses
    )
    val intent = Intent(applicationContext,
MainActivity::class.java)

intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
startActivity(intent)
    }
    } else {
//
        dialog.dismissDialog(TAG)
        dialog?.dismiss()
        Toast.makeText(applicationContext, "Gagal Login,
Silahkan Coba kembali!!!", Toast.LENGTH_SHORT).show()
    }
}

tvForgot.setOnClickListener {
    val intent = Intent(applicationContext, ResetActivity::class.java)
    intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
    startActivity(intent)
}

tvDaftar.setOnClickListener {
    val intent = Intent(applicationContext, DaftarActivity::class.java)
    intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
    startActivity(intent)
}

}

fun isValidEmail(target: CharSequence): Boolean {
    return !TextUtils.isEmpty(target) &&
android.util.Patterns.EMAIL_ADDRESS.matcher(target).matches()
}
}

```

#### 5.14 MainActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.os.Bundle
import android.util.Log
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.app.AppCompatActivity

```

```

import androidx.appcompat.app.AppCompatActivity
import androidx.appcompat.app.AppCompatActivity.MODE_NIGHT_AUTO
import androidx.fragment.app.Fragment
import com.google.android.material.bottomnavigation.BottomNavigationView
import com.google.android.material.floatingactionbutton.FloatingActionButton
import com.google.firebase.FirebaseApp
import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.iid.FirebaseInstanceId
import com.google.firebase.messaging.FirebaseMessaging
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.fragment.*
import com.unibba.traceralumni2019.util.InternetCheck
import com.unibba.traceralumni2019.util.SessionManager
import com.vanniktech.emoji.EmojiManager
import com.vanniktech.emoji.ios.IosEmojiProvider
import java.util.*
import kotlin.collections.HashMap

```

```

class MainActivity : AppCompatActivity() {

```

```

    private lateinit var fab: FloatingActionButton
    private lateinit var sessionManager: SessionManager
    private lateinit var internetCheck: InternetCheck
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var auth: FirebaseAuth

```

```

    private val onNavigationItemSelectedListener =
        BottomNavigationView.OnNavigationItemSelectedListener { item ->
            var fragment: Fragment? = null
            when (item.itemId) {
                R.id.navigation_dashboard -> {

```

```

                fab.setImageDrawable(resources.getDrawable(R.drawable.ic_notifications_black_24d
                p))

```

```

                    fab.backgroundTintList =
                        resources.getColorStateList(R.color.white)
                    fragment = DashboardFragment()
                }
                R.id.navigation_chat -> {

```

```

                fab.setImageDrawable(resources.getDrawable(R.drawable.ic_notifications_black_24d
                p))

```

```

                    fab.backgroundTintList =
                        resources.getColorStateList(R.color.white)

```

```

        fragment = ChatFragment()
        // This registration token comes from the client FCM SDKs.
        val registrationToken = "YOUR_REGISTRATION_TOKEN"

// See documentation on defining a message payload.
//
        val message = Message()
//
        .putData("score", "850")
//
        .putData("time", "2:45")
//
        .setToken(registrationToken)
//
        .build()

// Send a message to the device corresponding to the provided
// registration token.
//
        val response = FirebaseMessaging.getInstance().send(message)
// Response is a message ID string.
//
        println("Successfully sent message: $response")
    }
    R.id.navigation_info -> {

fab.setImageDrawable(resources.getDrawable(R.drawable.ic_notifications_white_24d
p))
        fab.backgroundTintList =
resources.getColorStateList(R.color.blue)
        fragment = InfoFragment()
    }
    R.id.navigation_lokasi -> {

fab.setImageDrawable(resources.getDrawable(R.drawable.ic_notifications_black_24d
p))
        fab.backgroundTintList =
resources.getColorStateList(R.color.white)
        fragment = LokasiFragment()
    }
    R.id.navigation_profil -> {

fab.setImageDrawable(resources.getDrawable(R.drawable.ic_notifications_black_24d
p))
        fab.backgroundTintList =
resources.getColorStateList(R.color.white)
        fragment = ProfilFragment()
//
        val intent = Intent (this, LoginActivity::class.java)
//
        intent.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP)
//
        startActivity(intent)
    }
    }
    return@OnNavigationItemSelectedListener loadFragment(fragment)
}

```

```

override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_main)
    firestoreDB = FirebaseFirestore.getInstance()
    auth = FirebaseAuth.getInstance()
    AppCompatDelegate.setDefaultNightMode(MODE_NIGHT_AUTO)
    EmojiManager.install(IosEmojiProvider())
    FirebaseApp.initializeApp(this)
    FirebaseMessaging.getInstance().subscribeToTopic("/topics/global")
    FirebaseMessaging.getInstance().subscribeToTopic("/topics/forum")
    FirebaseMessaging.getInstance().subscribeToTopic("/topics/loker")
    FirebaseMessaging.getInstance().subscribeToTopic("/topics/pengumuman")
    sessionManager = SessionManager(this)
    internetCheck = InternetCheck()
    internetCheck.connect(applicationContext)
    fab = findViewById(R.id.fab)
    val navView: BottomNavigationView = findViewById(R.id.nav_view)

    navView.setOnNavigationItemSelectedListener(onNavigationItemSelectedListener)
    fab.setOnClickListener {

        fab.setImageDrawable(resources.getDrawable(R.drawable.ic_notifications_white_24d
        p))

        fab.backgroundTintList = resources.getColorStateList(R.color.blue)
        loadFragment(InfoFragment())
        navView.selectedItemId = R.id.navigation_info
    }
    sessionManager.checkLogin(auth.currentUser)
    if (auth.currentUser != null) {
        val nim = sessionManager.getLogin().get("nim").toString()
        val token = FirebaseInstanceId.getInstance()
        val data = HashMap<String, Any>()
        data.put("token", token.toString())
        data.put("last_seen", Date())
        if (sessionManager.isLoggedIn()) {
            firestoreDB!!
                .collection("users")
                .document(nim)
                .update(data)
                .addOnSuccessListener {}
            loadFragment(DashboardFragment())
        }
    }
    var token = FirebaseInstanceId.getInstance()
    Log.d("Mainactivity", "Token : " + token)
    var bodyMessage = intent.getStringExtra("Notification")
    if (bodyMessage != null) {
        AlertDialog.Builder(this)

```

```

        .setTitle("Notification")
        .setMessage(bodyMessage)
        .setPositiveButton("Ok", { dialog, which -> }).show()
    }
}

private fun loadFragment(fragment: Fragment?): Boolean {
    if (fragment != null) {
        supportFragmentManager.beginTransaction()
            .replace(R.id.fl_container, fragment)
            .commit()
        return true
    }

    return false
}
}

```

#### 5.15 PengelolaanUserActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity
import androidx.fragment.app.Fragment
import androidx.fragment.app.FragmentManager
import androidx.fragment.app.FragmentPagerAdapter
import androidx.viewpager.widget.ViewPager
import com.google.android.material.tabs.TabLayout
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.fragment.PengelolaanUserFragment1
import com.unibba.traceralumni2019.fragment.PengelolaanUserFragment2
import com.unibba.traceralumni2019.util.SessionManager

class PengelolaanUserActivity: AppCompatActivity() {

    lateinit var viewPager: ViewPager
    lateinit var tabs: TabLayout
    private lateinit var sessionManager: SessionManager
    var page_menu = ""

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_pengelolaan_users)
        viewPager = findViewById(R.id.viewpager)
        tabs = findViewById(R.id.tabs)
        sessionManager = SessionManager(applicationContext)
        if (viewPager != null) {
            setupViewPager(viewPager)

```

```

    }
    val intent = intent
    val b = intent.extras
    if (b != null) {
        page_menu = b.get("page_menu").toString()
    }
    if (page_menu.equals("user_registrasi")){
        viewpager.setCurrentItem(viewpager.getCurrentItem())
        sessionManager.setPosition(0)
    }else if (page_menu.equals("user_user")){
        viewpager.setCurrentItem(viewpager.getCurrentItem() +1)
        sessionManager.setPosition(1)
    }else if (page_menu.equals("user_admin")){
        viewpager.setCurrentItem(viewpager.getCurrentItem() +1)
        sessionManager.setPosition(2)
    }
}

private fun setupViewPager(viewPager: ViewPager) {
    val adapter = Adapter(supportFragmentManager)
    adapter.addFragment(PengelolaanUserFragment1(), "Register")
    adapter.addFragment(PengelolaanUserFragment2(), "Users")
    viewPager.adapter = adapter
    tabs.setupWithViewPager(viewPager)
}

internal class Adapter(fm: FragmentManager) : FragmentPagerAdapter(fm) {
    private val mFragments = ArrayList<Fragment>()
    private val mFragmentTitles = ArrayList<String>()

    fun addFragment(fragment: Fragment, title: String) {
        mFragments.add(fragment)
        mFragmentTitles.add(title)
    }

    override fun getItem(position: Int): Fragment {
        return mFragments.get(position)
    }

    override fun getCount(): Int {
        return mFragments.size
    }

    override fun getPageTitle(position: Int): CharSequence? {
        return mFragmentTitles.get(position)
    }
}

```



```
}
```

### 5.16 ProfilActivity.kt

```
package com.unibba.traceralumni2019.activity

import android.annotation.SuppressLint
import android.content.Intent
import android.os.Bundle
import android.text.TextUtils
import android.util.Log
import android.view.View
import androidx.appcompat.app.AppCompatActivity
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions
import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.karumi.dexter.listener.single.PermissionListener
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_profil.*

class ProfilActivity : AppCompatActivity() {

    private val TAG = "ProfilActivity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var auth: FirebaseAuth
    private lateinit var sessionManager: SessionManager
    private lateinit var permissionListener: PermissionListener
    var PICK_IMAGE_REQUEST = 1
    var nim_s = ""
    var nim = ""
    var image_url = ""
    var nama = ""
    var angkatan = ""
    var prodi = ""
    var fakultas = ""
    var last_seen = ""
    var tentang = ""

    @SuppressLint("RestrictedApi")
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_profil)
        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(this)
    }
}
```

```

nim_s = sessionManager.getLogin().get("nim").toString()
auth = FirebaseAuth.getInstance()
val intent = intent
val b = intent.extras

if (b != null) {
    nim = b.get("nim").toString()
    nama = b.get("nama").toString()
    image_url = b.get("image_url").toString()
    angkatan = b.get("angkatan").toString()
    prodi = b.get("prodi").toString()
    fakultas = b.get("fakultas").toString()
    last_seen = b.get("last_seen").toString()
    tentang = b.get("tentang").toString()
}

loadData()
FakultasProdi(fakultas)

Glide.with(this@ProfilActivity).load(image_url)
    .apply(
        RequestOptions()
            .circleCrop()
            .centerCrop()
            .error(R.drawable.ic_user)
            .placeholder(R.drawable.ic_user)
    )
    .apply(RequestOptions.circleCropTransform())
    .into(imageView)
textNama.text = nim + "\n" + nama
textAngkatan.text = angkatan
textLastseen.text = last_seen
if (tentang.isNullOrEmpty())
    tentang = "Hai, saya baru saja bergabung di tracer alumni unibba"
textTentang.text = tentang
if (nim_s.equals(nim)) {
    fab.visibility = View.GONE
}
fab.setOnClickListener {
    val intent = Intent(applicationContext, ChatActivity::class.java)
    intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
    startActivity(intent)
}
imageView.setOnClickListener {
    if (!TextUtils.isEmpty(image_url)) {
        val intent = Intent(this, ImageviewActivity::class.java)
        intent.putExtra("image_url", image_url)
        startActivity(intent)
    }
}

```

```

    }
}

private fun loadData() {
    firestoreDB!!.collection("tracerstudy")
        .document(nim)
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }
            val document = documentSnapshots
            if (document != null) {
                if (document.get("F11_6") != null) {
                    textNamainstansi.text =
document.get("F11_6").toString()
                } else {
                    textNamainstansi.text = "-"
                }
                if (document.get("F11_7") != null) {
                    textAlamatinstansi.text =
document.get("F11_7").toString()
                } else {
                    textAlamatinstansi.text = "-"
                }
                if (document.get("F11_8") != null) {
                    textNotlpinstansi.text =
document.get("F11_8").toString()
                } else {
                    textNotlpinstansi.text = "-"
                }
            }
        })
}

private fun FakultasProdi(id: String) {
    if (!id.isNullOrEmpty()) {
        firestoreDB!!.collection("fakultas")
            .document(id)
            .addSnapshotListener(EventListener { documentSnapshots, e ->
                if (e != null) {
                    Log.e(TAG, "Listen failed!", e)
                    pbLoading.visibility = View.GONE
                    return@EventListener
                }
                val document = documentSnapshots

```

```

        if (document != null) {
            if (document.get("nama") != null) {
                textFakultas.text =
document.get("nama").toString()
            } else {
                textFakultas.text = "-"
            }
            if (document.get("prodi") != null) {
                val array = document.get("prodi") as
HashMap<String, Any>
                textProdi.text = array.get(prodi).toString()
            } else {
                textProdi.text = "-"
            }
        }
    })
}

fun isValidEmail(target: CharSequence): Boolean {
    return !TextUtils.isEmpty(target) &&
android.util.Patterns.EMAIL_ADDRESS.matcher(target).matches()
}
}

```

### 5.17 ProfilPasswordActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.os.Bundle
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import com.google.android.material.snackbar.Snackbar
import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_profil_password.*
import kotlinx.android.synthetic.main.activity_tracerstudy0.btnSimpan

class ProfilPasswordActivity : AppCompatActivity() {

    private val TAG = "ProfilPasswordActivity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var sessionManager: SessionManager
    private lateinit var auth: FirebaseAuth
    var nim_s = ""
}

```

```

        override fun onCreate(savedInstanceState: Bundle?) {
            super.onCreate(savedInstanceState)
            setContentView(R.layout.activity_profil_password)
            firestoreDB = FirebaseFirestore.getInstance()
            auth = FirebaseAuth.getInstance()
            sessionManager = SessionManager(this)
            nim_s = sessionManager.getLogin().get("nim").toString()
            btnSimpan.setOnClickListener {
                ubahpassword()
            }
        }

        fun ubahpassword() {
            if (!inputPassword2.text.toString().equals(inputPassword3.text.toString()))
            {
                Snackbar.make(root_layout, "Password tidak sama!!!",
                Snackbar.LENGTH_LONG).setAction("Close", {}).show()
            } else if (inputPassword2.text.length < 6) {
                Snackbar.make(root_layout, "Password minimal 6 karakter!!!",
                Snackbar.LENGTH_LONG).setAction("Close", {}).show()
            } else {
                val user = auth.currentUser
                if (user != null) {
                    user.updatePassword(inputPassword2.text.toString())
                    Toast.makeText(this, "Ubah password berhasil...",
                    Toast.LENGTH_SHORT).show()
                    auth.signOut()
                    sessionManager.logoutUser()
                }
            }
        }
    }
}

```

### 5.18 ResetActivity.kt

```

package com.unibba.traceralumni2019.activity

import android.content.Intent
import android.os.Bundle
import android.text.TextUtils
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import androidx.core.content.ContextCompat
import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.hussain_chachuliya.gifdialog.GifDialog

```

```

import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.InternetCheck
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_reset.*

class ResetActivity : AppCompatActivity() {

    private val TAG = "ResetActivity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var sessionManager: SessionManager
    private lateinit var internetCheck: InternetCheck
    private lateinit var auth: FirebaseAuth

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_reset)
        firestoreDB = FirebaseFirestore.getInstance()
        auth = FirebaseAuth.getInstance()
        internetCheck = InternetCheck()
        internetCheck.connect(this)
        btnReset.setOnClickListener {
            if (TextUtils.isEmpty(inputEmail.text.toString())) {
                Toast.makeText(this, "Email tidak boleh kosong!!!",
                    Toast.LENGTH_SHORT).show()
            } else if (!IsValidEmail(inputEmail.text.toString())) {
                Toast.makeText(this, "Email salah!!!",
                    Toast.LENGTH_SHORT).show()
            } else {
                resetEmail(inputEmail.text.toString())
            }
        }
    }

    fun resetEmail(email: String) {
        val dialog = GifDialog.with(this)
        dialog.isCancelable(false)
        dialog.setText("Verifikasi...")
        dialog.setTextSize(12)
        dialog.setBackgroundColor(ContextCompat.getColor(this,
            android.R.color.transparent))
        dialog.setTextColor(ContextCompat.getColor(this,
            android.R.color.background_light))
        dialog.setResourceId(R.drawable.gifphy8)
        dialog.showDialog(TAG)
        auth.sendPasswordResetEmail(email)
        dialog.addOnCompleteListener { task ->
            dialog.dismissDialog(TAG)
        }
    }
}

```

```

        if (task.isSuccessful) {
            val intent = Intent(applicationContext,
LoginActivity::class.java)
            intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
            startActivity(intent)
            Toast.makeText(this, "Silahkan cek inbox email reset
password kemudian login...", Toast.LENGTH_LONG).show()
        } else {
            Toast.makeText(this, "Email salah / belum terdaftar!!!",
Toast.LENGTH_SHORT).show()
        }
    }
}

fun isValidEmail(target: CharSequence): Boolean {
    return !TextUtils.isEmpty(target) &&
android.util.Patterns.EMAIL_ADDRESS.matcher(target).matches()
}
}

```

#### 5.19 Tracerstudy0Activity.kt

```

package com.unibba.traceralumni2019.activity

import android.content.Intent
import android.os.Bundle
import android.util.Log
import androidx.appcompat.app.AppCompatActivity
import com.google.android.material.snackbar.Snackbar
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.firestore.SetOptions
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_tracerstudy0.*

class Tracerstudy0Activity : AppCompatActivity() {

    private val TAG = "Tracerstudy0Activity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var sessionManager: SessionManager
    var nim_s = ""
    var TS_1 = "0"
    var TS_2 = "0"
    var TS_3 = "0"
    var TS_4 = "0"
}

```

```

override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_tracerstudy0)
    firestoreDB = FirebaseFirestore.getInstance()
    sessionManager = SessionManager(this)
    if (sessionManager.isLoggedIn() == false) {
        nim_s =
sessionManager.getValidasi().get("nim_valid").toString().toUpperCase()
    } else {
        nim_s =
sessionManager.getLogin().get("nim").toString().toUpperCase()
    }
    loadData()
    rl1.setOnClickListener {
        val intent = Intent(this, Tracerstudy1Activity::class.java)
        startActivity(intent)
    }
    rl2.setOnClickListener {
        val intent = Intent(this, Tracerstudy2Activity::class.java)
        startActivity(intent)
    }
    rl3.setOnClickListener {
        val intent = Intent(this, Tracerstudy3Activity::class.java)
        startActivity(intent)
    }
    rl4.setOnClickListener {
        val intent = Intent(this, Tracerstudy4Activity::class.java)
        startActivity(intent)
    }
    btnSimpan.setOnClickListener {
        val akses = sessionManager.getLogin().get("akses").toString()
        if (akses.equals("0")) {
            firestoreDB!!
                .collection("tracerstudy")
                .document(nim_s)
                .get()
                .addOnSuccessListener { task ->
                    if (task.get("TS_1") != null)
                        TS_1 = task.get("TS_1").toString()
                    if (task.get("TS_2") != null)
                        TS_2 = task.get("TS_2").toString()
                    if (task.get("TS_3") != null)
                        TS_3 = task.get("TS_3").toString()
                    if (task.get("TS_4") != null)
                        TS_4 = task.get("TS_4").toString()

                    if (TS_1.equals("0")) {
                        Snackbar.make(root_layout, "Data pribadi harus di

```



```

isi!!!", Snackbar.LENGTH_LONG)
                .setAction("Close", {}).show()
            } else if (TS_2.equals("0")) {
                Snackbar.make(
                    root_layout,
                    "Pengalaman metode penekanan
pembelajaran harus di isi!!!",
                    Snackbar.LENGTH_LONG
                ).setAction("Close", {}).show()
            } else if (TS_3.equals("0")) {
                Snackbar.make(
                    root_layout,
                    "Kepuasan pengguna lulusan harus di isi!!!",
                    Snackbar.LENGTH_LONG
                ).setAction("Close", {}).show()
            } else if (TS_4.equals("0")) {
                Snackbar.make(root_layout, "Riwayat pekerjaan
harus di isi!!!", Snackbar.LENGTH_LONG)
                    .setAction("Close", {}).show()
            } else {
                sessionManager.clearvalidasi()
                firestoreDB!!
                    .collection("users")
                    .document(nim_s)
                    .get()
                    .addOnSuccessListener { task ->
                        if (task.exists()) {
                            val id = task.get("id").toString()
                            val nama =
task.get("nama").toString()
                            val email =
task.get("email").toString()
                            val akses =
task.get("akses").toString()

                            sessionManager.setLogin(
                                "" + id,
                                "" + nim_s,
                                "" + nama,
                                "" + email,
                                "" + akses
                            )

                            val data = HashMap<String, Any>()
                            data.put("TS", 1)

                            firestoreDB!!
                                .collection("alumni")
                                .document(nim_s)

```

```

        .set(data, SetOptions.merge())

        val intent =
Intent(applicationContext, MainActivity::class.java)

intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)

        startActivity(intent)
    }
}

} else {
    val intent = intent
    val b = intent.extras
    var edit = false
    if (b != null) {
        edit = b.get("edit").toString().toBoolean()
    }
    if (edit == true) {
        onBackPressed()
    } else {
        val i = Intent(applicationContext, MainActivity::class.java)
        i.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
        startActivity(i)
    }
}

}

}

override fun onDestroy() {
    super.onDestroy()
    if (firestoreListener != null) {
        firestoreListener!!.remove()
        firestoreListener = null
    }
}

fun loadData() {
    firestoreListener = firestoreDB!!
        .collection("tracerstudy")
        .document(nim_s)
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }
        })
}

```

```

        }
        if (documentSnapshots != null) {
            if (documentSnapshots.get("TS_1") != null)
                TS_1 = "1"
            if (documentSnapshots.get("TS_2") != null)
                TS_2 = "1"
            if (documentSnapshots.get("TS_3") != null)
                TS_3 = "1"
            if (documentSnapshots.get("TS_4") != null)
                TS_4 = "1"
        }
        menulist()
    })
}

fun menulist() {
    if (TS_1.equals("1")) {
        check1.setImageResource(R.drawable.ic_check_green_24dp)
    } else {
        check1.setImageResource(R.drawable.ic_check_gray_24dp)
    }
    if (TS_2.equals("1")) {
        check2.setImageResource(R.drawable.ic_check_green_24dp)
    } else {
        check2.setImageResource(R.drawable.ic_check_gray_24dp)
    }
    if (TS_3.equals("1")) {
        check3.setImageResource(R.drawable.ic_check_green_24dp)
    } else {
        check3.setImageResource(R.drawable.ic_check_gray_24dp)
    }
    if (TS_4.equals("1")) {
        check4.setImageResource(R.drawable.ic_check_green_24dp)
    } else {
        check4.setImageResource(R.drawable.ic_check_gray_24dp)
    }
}
}
}

```

## 5.20 Tracerstudy1Activity.kt

```
package com.unibba.traceralumni2019.activity
```

```

import android.os.Bundle
import android.text.TextUtils
import android.util.Log
import android.view.View
import android.widget.AdapterView
import android.widget.Toast

```

```

import androidx.appcompat.app.AppCompatActivity
import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.firestore.SetOptions
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.Run
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_tracerstudy1.*

class Tracerstudy1Activity : AppCompatActivity() {

    private val TAG = "Tracerstudy1Activity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var auth: FirebaseAuth
    private lateinit var sessionManager: SessionManager
    private var nim_s = ""
    private var nama_s = ""
    private var email_s = ""
    private var nohp_s = ""
    private var fakultas_s = ""
    private var prodi_s = ""
    private var angkatan_s = ""
    private var list_fakultas_id = ArrayList<String>()
    private var list_fakultas_nama = ArrayList<String>()
    private var list_prodi_id = ArrayList<String>()
    private var list_prodi_nama = ArrayList<String>()

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_tracerstudy1)
        firestoreDB = FirebaseFirestore.getInstance()
        auth = FirebaseAuth.getInstance()
        sessionManager = SessionManager(this)
        if (sessionManager.isLoggedIn() == false) {
            nim_s =
sessionManager.getValidasi().get("nim_valid").toString().toUpperCase()
            nama_s =
sessionManager.getValidasi().get("nama_valid").toString().toUpperCase()
            email_s = sessionManager.getValidasi().get("email_valid").toString()
        } else {
            nim_s =
sessionManager.getLogin().get("nim").toString().toUpperCase()
            nama_s =
sessionManager.getLogin().get("nama").toString().toUpperCase()
            email_s = sessionManager.getLogin().get("email").toString()

```

```

    }
    selectFakultas()
    loadData()
    btnSimpan.setOnClickListener {
        if (TextUtils.isEmpty(inputNim.text.trim())) {
            inputNim.error = "Nim harus diisi!!!"
            inputNim.requestFocus()
        } else if (TextUtils.isEmpty(inputNama.text.trim())) {
            inputNama.error = "Nama harus diisi!!!"
            inputNama.requestFocus()
        } else if (TextUtils.isEmpty(inputEmail.text.trim())) {
            inputEmail.error = "Email harus diisi!!!"
            inputEmail.requestFocus()
        } else if (!isValidEmail(inputEmail.text.trim())) {
            inputEmail.error = "Email salah!!!"
            inputEmail.requestFocus()
        } else if (TextUtils.isEmpty(inputNohp.text.trim())) {
            inputNohp.error = "No Telepon / Hp salah!!!"
            inputNohp.requestFocus()
        } else if (prodi.selectedItemPosition == 0) {
            Toast.makeText(applicationContext, "Silahkan pilih program studi!!!", Toast.LENGTH_LONG).show()
        } else if (TextUtils.isEmpty(inputAngkatan.text.trim())) {
            inputAngkatan.error = "Angkatan harus diisi!!!"
            inputAngkatan.requestFocus()
        } else if (inputAngkatan.text.trim().length < 4) {
            inputAngkatan.error = "Angkatan salah!!!"
            inputAngkatan.requestFocus()
        } else {
            savedata()
        }
    }
}

// fakultas?.onItemSelectedListener = object :
// AdapterView.OnItemSelectedListener {
//     override fun onNothingSelected(parent: AdapterView<*>?) {
//     }
// }
//
// override fun onItemSelected(parent: AdapterView<*>?, view: View?,
// position: Int, id: Long) {
//     System.out.println("list=>" + position)
//     if (position > 0) {
//         val id = list_fakultas_id[position]
//         selectProdi(id)
//     } else {
//         selectProdi("")
//     }
// }
//

```

```

//      }
    }

    fun selectFakultas() {
        list_fakultas_id.clear()
        list_fakultas_nama.clear()
        list_fakultas_id.add("--Pilih--")
        list_fakultas_nama.add("--Pilih--")
        list_prodi_id.add("--Pilih--")
        list_prodi_nama.add("--Pilih--")
        firestoreDB!!
            .collection("fakultas")
            .get()
            .addOnSuccessListener { task ->
                if (task != null) {
                    for (doc in task) {
                        if (doc.get("prodi") != null) {
                            val prodis = doc.get("prodi") as HashMap<String,
Any>
                                for (docs in prodis) {
                                    list_fakultas_id.add(doc.id)
                                    if (doc.get("nama") != null)
list_fakultas_nama.add(doc.get("nama").toString())
                                    list_prodi_id.add(docs.key)
                                    list_prodi_nama.add(docs.value.toString())
                                }
                            }
                        }
                    }
                }
            }
        // Initializing an ArrayAdapter
        val adapter = ArrayAdapter(
            this, // Context
            android.R.layout.simple_spinner_item, // Layout
            list_prodi_nama // Array
        )

        adapter.setDropDownViewResource(android.R.layout.simple_dropdown_item_1line)
        prodi.adapter = adapter

        //
        //      // Initializing an ArrayAdapter
        //      val adapter = ArrayAdapter(
        //          this, // Context
        //          android.R.layout.simple_spinner_item, // Layout
        //          list_fakultas_nama // Array
        //      )
        //
        adapter.setDropDownViewResource(android.R.layout.simple_dropdown_item_1line)

```

```

//          fakultas.adapter = adapter
//      }
//  }

//  fun selectProdi(id: String) {
//      list_prodi_id.clear()
//      list_prodi_nama.clear()
//      list_prodi_id.add("--Pilih--")
//      list_prodi_nama.add("--Pilih--")
//      if (!id.equals("")) {
//          firestoreDB!!
//              .collection("fakultas")
//              .document(id)
//              .get()
//              .addOnSuccessListener { task ->
//                  if (task != null) {
//                      if (task.get("prodi") != null) {
//                          val prodis = task.get("prodi") as
HashMap<String, Any>
//                              for (doc in prodis) {
//                                  list_prodi_id.add(doc.key)
//                                  list_prodi_nama.add(doc.value.toString())
//                              }
//                          }
//                          // Initializing an ArrayAdapter
//                          val adapter = ArrayAdapter(
//                              this, // Context
//                              android.R.layout.simple_spinner_item, // Layout
//                              list_prodi_nama // Array
//                          )
//                          adapter.setDropDownViewResource(android.R.layout.simple_dropdown_item_1line)
//                          prodi.adapter = adapter
//                      }
//                  }
//      } else {
//          // Initializing an ArrayAdapter
//          val adapter = ArrayAdapter(
//              this, // Context
//              android.R.layout.simple_spinner_item, // Layout
//              list_prodi_nama // Array
//          )
//          adapter.setDropDownViewResource(android.R.layout.simple_dropdown_item_1line)
//          adapter.clear()
//          adapter.notifyDataSetChanged()
//          prodi.adapter = adapter
//      }
}

```

```

//    }

fun loadData() {
    firestoreListener = firestoreDB!!
        .collection("alumni")
        .document(nim_s)
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }
            if (documentSnapshots != null) {
                if (documentSnapshots.get("nama") != null)
                    nama_s = documentSnapshots.get("nama").toString()
                if (documentSnapshots.get("email") != null)
                    email_s = documentSnapshots.get("email").toString()
                if (documentSnapshots.get("nohp") != null)
                    nohp_s = documentSnapshots.get("nohp").toString()
                if (documentSnapshots.get("fakultas") != null)
                    fakultas_s =
documentSnapshots.get("fakultas").toString()
                if (documentSnapshots.get("prodi") != null)
                    prodi_s = documentSnapshots.get("prodi").toString()
                if (documentSnapshots.get("angkatan") != null)
                    angkatan_s =
documentSnapshots.get("angkatan").toString()
            }
            inputNim.setText(nim_s)
            inputNama.setText(nama_s)
            inputEmail.setText(email_s)
            inputNohp.setText(nohp_s)
            setFakultasProdi(prodi_s)
            inputAngkatan.setText(angkatan_s)
            pbLoading.visibility = View.GONE
        })
}

fun setFakultasProdi(id:String){
    Run.after(1000, {
        prodi.setSelection(list_prodi_id.indexOf(id))
    })
}

fun savedata() {
    val user = auth.currentUser
    if (user != null) {
        user.updateEmail(inputEmail.text.toString())
    }
}

```



```

    }
    var data = HashMap<String, Any>()
    data.put("nim", nim_s)
    data.put("nama", inputNama.text.toString())
    data.put("email", inputEmail.text.toString())
    data.put("nohp", inputNohp.text.toString())
    data.put("fakultas", list_fakultas_id[prodi.selectedItemPosition])
    data.put("prodi", list_prodi_id[prodi.selectedItemPosition])
    data.put("angkatan", inputAngkatan.text.toString().toInt())
    data.put("alamat", inputAlamat.text.toString())
    firestoreDB!!.collection("alumni")
        .document(nim_s)
        .set(data, SetOptions.merge())
        .addOnSuccessListener {}
//                sessionManager.setLogin(
//                    "" + nim_s,
//                    "" + nim_s,
//                    "" + nama_s,
//                    "" + email_s,
//                    "" +
//                )
    var data2 = HashMap<String, Any>()
    data2.put("TS_1", 1)
    data2.put("prodi", prodi.selectedItemPosition)
    data2.put("angkatan", inputAngkatan.text.toString().toInt())
    firestoreDB!!.collection("tracerstudy")
        .document(nim_s)
        .set(data2, SetOptions.merge())
        .addOnSuccessListener {}
    onBackPressed()
}

fun isValidEmail(target: CharSequence): Boolean {
    return !TextUtils.isEmpty(target) &&
    android.util.Patterns.EMAIL_ADDRESS.matcher(target).matches()
}
}

```

### 5.21 Tracerstudy2Activity.kt

```

package com.unibba.traceralumni2019.activity

import android.os.Bundle
import android.util.Log
import android.view.View
import android.widget.RadioButton
import android.widget.RadioGroup
import androidx.appcompat.app.AppCompatActivity
import com.google.android.material.snackbar.Snackbar

```

```

import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.firestore.SetOptions
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_tracerstudy2.*

class Tracerstudy2Activity : AppCompatActivity() {

    private val TAG = "Tracerstudy2Activity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var sessionManager: SessionManager
    private lateinit var nim_s: String
    var F2_1 = 0
    var F2_2 = 0
    var F2_3 = 0
    var F2_4 = 0
    var F2_5 = 0
    var F2_6 = 0
    var F2_7 = 0

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_tracerstudy2)
        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(this)
        if (sessionManager.isLoggedIn() == false) {
            nim_s =
sessionManager.getValidasi().get("nim_valid").toString().toUpperCase()
        } else {
            nim_s =
sessionManager.getLogin().get("nim").toString().toUpperCase()
        }

        loadData()
        btnSimpan.setOnClickListener {
            savedata()
        }
    }

    fun loadData() {
        firestoreListener = firestoreDB!!
            .collection("tracerstudy")
            .document(nim_s)
            .addSnapshotListener(EventListener { documentSnapshots, e ->

```

```

        if (e != null) {
            Log.e(TAG, "Listen failed!", e)
            pbLoading.visibility = View.GONE
            return@EventListener
        }
        if (documentSnapshots != null) {
            if (documentSnapshots.get("F2_1") != null)
                F2_1 =
documentSnapshots.get("F2_1").toString().toInt()
            if (documentSnapshots.get("F2_2") != null)
                F2_2 =
documentSnapshots.get("F2_2").toString().toInt()
            if (documentSnapshots.get("F2_3") != null)
                F2_3 =
documentSnapshots.get("F2_3").toString().toInt()
            if (documentSnapshots.get("F2_4") != null)
                F2_4 =
documentSnapshots.get("F2_4").toString().toInt()
            if (documentSnapshots.get("F2_5") != null)
                F2_5 =
documentSnapshots.get("F2_5").toString().toInt()
            if (documentSnapshots.get("F2_6") != null)
                F2_6 =
documentSnapshots.get("F2_6").toString().toInt()
            if (documentSnapshots.get("F2_7") != null)
                F2_7 =
documentSnapshots.get("F2_7").toString().toInt()
        }
        if (F2_1 > 0)
            (rg1.getChildAt(F2_1) as RadioButton).isChecked = true
        if (F2_2 > 0)
            (rg2.getChildAt(F2_2) as RadioButton).isChecked = true
        if (F2_3 > 0)
            (rg3.getChildAt(F2_3) as RadioButton).isChecked = true
        if (F2_4 > 0)
            (rg4.getChildAt(F2_4) as RadioButton).isChecked = true
        if (F2_5 > 0)
            (rg5.getChildAt(F2_5) as RadioButton).isChecked = true
        if (F2_6 > 0)
            (rg6.getChildAt(F2_6) as RadioButton).isChecked = true
        if (F2_7 > 0)
            (rg7.getChildAt(F2_7) as RadioButton).isChecked = true
        pbLoading.visibility = View.GONE
    })
}

fun savedata() {
    F2_1 = radioInt(rg1)

```

```

F2_2 = radioInt(rg2)
F2_3 = radioInt(rg3)
F2_4 = radioInt(rg4)
F2_5 = radioInt(rg5)
F2_6 = radioInt(rg6)
F2_7 = radioInt(rg7)

if (F2_1 <= 0) {
    Snackbar.make(root_layout, "Diskusi harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
} else if (F2_2 <= 0) {
    Snackbar.make(root_layout, "Demonstrasi harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
} else if (F2_3 <= 0) {
    Snackbar.make(root_layout, "Kerja Lapangan harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
} else if (F2_4 <= 0) {
    Snackbar.make(root_layout, "Magang harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
} else if (F2_5 <= 0) {
    Snackbar.make(root_layout, "Praktikum harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
} else if (F2_6 <= 0) {
    Snackbar.make(root_layout, "Perkuliahan harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
} else if (F2_7 <= 0) {
    Snackbar.make(root_layout, "Partisipasi dalam proyek dan riset harus
dipilih!!!", Snackbar.LENGTH_LONG).setAction("Close", {}).show()
} else {
    var data = HashMap<String, Any>()
    data.put("F2_1", F2_1)
    data.put("F2_2", F2_2)
    data.put("F2_3", F2_3)
    data.put("F2_4", F2_4)
    data.put("F2_5", F2_5)
    data.put("F2_6", F2_6)
    data.put("F2_7", F2_7)
    data.put("TS_2", 1)
    firestoreDB!!.collection("tracerstudy")
        .document(nim_s)
        .set(data, SetOptions.merge())
        .addOnSuccessListener {}
    onBackPressed()
}
}

fun radioInt(rg: RadioGroup): Int {
    var id_rg = rg.checkedRadioButtonId

```

```

        var idx = 0
        if (id_rg != -1) {
            val radio: RadioButton = findViewById(id_rg)
            idx = rg.indexOfChild(radio)
        }
        return idx
    }
}

```

## 5.22 Tracerstudy3Activity.kt

```

package com.unibba.traceralumni2019.activity

import android.os.Bundle
import android.util.Log
import android.view.View
import android.widget.RadioButton
import android.widget.RadioGroup
import androidx.appcompat.app.AppCompatActivity
import com.google.android.material.snackbar.Snackbar
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.firestore.SetOptions
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_tracerstudy3.*

class Tracerstudy3Activity : AppCompatActivity() {

    private val TAG = "Tracerstudy3Activity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var sessionManager: SessionManager
    private lateinit var nim_s: String
    var F2_8 = 0
    var F2_9 = 0
    var F2_10 = 0
    var F2_11 = 0
    var F2_12 = 0
    var F2_13 = 0
    var F2_14 = 0

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_tracerstudy3)
        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(this)
        if (sessionManager.isLoggedIn() == false) {

```

```

        nim_s =
sessionManager.getValidasi().get("nim_valid").toString().toUpperCase()
    } else {
        nim_s =
sessionManager.getLogin().get("nim").toString().toUpperCase()
    }
    loadData()
    btnSimpan.setOnClickListener {
        savedata()
    }
}

fun loadData() {
    firestoreListener = firestoreDB!!
        .collection("tracerstudy")
        .document(nim_s)
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }
            if (documentSnapshots != null) {
                if (documentSnapshots.get("F2_8") != null)
                    F2_8 =
documentSnapshots.get("F2_8").toString().toInt()
                if (documentSnapshots.get("F2_9") != null)
                    F2_9 =
documentSnapshots.get("F2_9").toString().toInt()
                if (documentSnapshots.get("F2_10") != null)
                    F2_10 =
documentSnapshots.get("F2_10").toString().toInt()
                if (documentSnapshots.get("F2_11") != null)
                    F2_11 =
documentSnapshots.get("F2_11").toString().toInt()
                if (documentSnapshots.get("F2_12") != null)
                    F2_12 =
documentSnapshots.get("F2_12").toString().toInt()
                if (documentSnapshots.get("F2_13") != null)
                    F2_13 =
documentSnapshots.get("F2_13").toString().toInt()
                if (documentSnapshots.get("F2_14") != null)
                    F2_14 =
documentSnapshots.get("F2_14").toString().toInt()
            }
            if (F2_8 > 0)
                (rg1.getChildAt(F2_8) as RadioButton).isChecked = true
            if (F2_9 > 0)

```

```

        (rg2.getChildAt(F2_9) as RadioButton).isChecked = true
    if (F2_10 > 0)
        (rg3.getChildAt(F2_10) as RadioButton).isChecked = true
    if (F2_11 > 0)
        (rg4.getChildAt(F2_11) as RadioButton).isChecked = true
    if (F2_12 > 0)
        (rg5.getChildAt(F2_12) as RadioButton).isChecked = true
    if (F2_13 > 0)
        (rg6.getChildAt(F2_13) as RadioButton).isChecked = true
    if (F2_14 > 0)
        (rg7.getChildAt(F2_14) as RadioButton).isChecked = true
    pbLoading.visibility = View.GONE
    })
}

fun savedata() {
    F2_8 = radioInt(rg1)
    F2_9 = radioInt(rg2)
    F2_10 = radioInt(rg3)
    F2_11 = radioInt(rg4)
    F2_12 = radioInt(rg5)
    F2_13 = radioInt(rg6)
    F2_14 = radioInt(rg7)

    if (F2_8 <= 0) {
        Snackbar.make(root_layout, "Etika harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F2_9 <= 0) {
        Snackbar.make(root_layout, "Keahlian pada bidang ilmu (kompetensi
utama) harus dipilih!!!", Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F2_10 <= 0) {
        Snackbar.make(root_layout, "Kemampuan berbahasa asing harus
dipilih!!!", Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F2_11 <= 0) {
        Snackbar.make(root_layout, "Penggunaan Teknologi Informasi harus
dipilih!!!", Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F2_12 <= 0) {
        Snackbar.make(root_layout, "Kemampuan berkomunikasi harus
dipilih!!!", Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F2_13 <= 0) {
        Snackbar.make(root_layout, "Kerjasama harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F2_14 <= 0) {
        Snackbar.make(root_layout, "Pengembangan diri harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else {
        var data = HashMap<String, Any>()
        data.put("F2_8", F2_8)
    }
}

```

```

        data.put("F2_9", F2_9)
        data.put("F2_10", F2_10)
        data.put("F2_11", F2_11)
        data.put("F2_12", F2_12)
        data.put("F2_13", F2_13)
        data.put("F2_14", F2_14)
        data.put("TS_3", 1)

        firestoreDB!!.collection("tracerstudy")
            .document(nim_s)
            .set(data, SetOptions.merge())
            .addOnSuccessListener {}
        onBackPressed()
    }
}

fun radioInt(rg: RadioGroup): Int {
    var id_rg = rg.checkedRadioButtonId
    var idx = 0
    if (id_rg != -1) {
        val radio: RadioButton = findViewById(id_rg)
        idx = rg.indexOfChild(radio)
    }
    return idx
}
}

```

### 5.23 Tracerstudy4Activity.kt

```

package com.unibba.traceralumni2019.activity

import android.os.Bundle
import android.util.Log
import android.view.View
import android.widget.RadioButton
import android.widget.RadioGroup
import androidx.appcompat.app.AppCompatActivity
import com.google.android.material.snackbar.Snackbar
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FieldValue
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_tracerstudy4.*

class Tracerstudy4Activity : AppCompatActivity() {

    private val TAG = "Tracerstudy4Activity"

```



```
private var firestoreDB: FirebaseFirestore? = null
private var firestoreListener: ListenerRegistration? = null
private lateinit var sessionManager: SessionManager
private lateinit var nim_s: String
private var F3 = 0
private var F4_1 = 0
private var F4_2 = 0
private var F4_3 = 0
private var F4_4 = 0
private var F4_5 = 0
private var F4_6 = 0
private var F4_7 = 0
private var F4_8 = 0
private var F4_9 = 0
private var F4_10 = 0
private var F4_11 = 0
private var F4_12 = 0
private var F4_13 = 0
private var F4_14 = 0
private var F4_15 = 0
private var F4_15_other = ""
private var F5 = 0
private var F6 = ""
private var F7 = ""
private var F7a = ""
private var F8 = 0
private var F9_1 = 0
private var F9_2 = 0
private var F9_3 = 0
private var F9_4 = 0
private var F9_5 = 0
private var F9_5_other = ""
private var F10 = 0
private var F10_other = ""
private var F11_1 = 0
private var F11_2 = 0
private var F11_3 = 0
private var F11_4 = 0
private var F11_5 = 0
private var F11_5_other = ""
private var F11_6 = ""
private var F11_7 = ""
private var F11_8 = ""
private var F11_9 = ""
private var F13 = 0
private var F14 = 0
private var F15 = 0
private var F16_1 = 0
```

```

private var F16_2 = 0
private var F16_3 = 0
private var F16_4 = 0
private var F16_5 = 0
private var F16_6 = 0
private var F16_7 = 0
private var F16_8 = 0
private var F16_9 = 0
private var F16_10 = 0
private var F16_11 = 0
private var F16_12 = 0
private var F16_12_other = ""
private var F17_1 = 0
private var F17_2 = 0

override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_tracerstudy4)
    firestoreDB = FirebaseFirestore.getInstance()
    sessionManager = SessionManager(this)
    if (sessionManager.isLoggedIn() == false) {
        nim_s =
sessionManager.getValidasi().get("nim_valid").toString().toUpperCase()
    } else {
        nim_s =
sessionManager.getLogin().get("nim").toString().toUpperCase()
    }
    Log.d("nim=>", nim_s)
    jawaban_visible()
    jawab_lainnya()
    loadData()
    btnSimpan.setOnClickListener {
        validasi()
    }
}

fun jawaban_visible() {
    var id_rgf3 = rgf3.checkedRadioButtonId
    if (id_rgf3 != -1) {
        val radio: RadioButton = findViewById(id_rgf3)
        var idx = rgf3.indexOfChild(radio)
        if (idx == 3) {
            F3_view(View.GONE)
        } else {
            F3_view(View.VISIBLE)
        }
    }
}
rgf3.setOnCheckedChangeListener { group, checkedId ->

```

```

        val radio: RadioButton = findViewById<RadioButton>(checkedId)
        var idx = rgf3.indexOfChild(radio)
        if (idx == 3) {
            F3_view(View.GONE)
        } else {
            F3_view(View.VISIBLE)
        }
    }

    var id_rgf8 = rgf8.checkedRadioButtonId
    if (id_rgf8 != -1) {
        val radio: RadioButton = findViewById<RadioButton>(id_rgf8)
        var idx = rgf8.indexOfChild(radio)
        if (idx == 0) {
            F8_view(View.GONE)
        } else {
            F8_view(View.VISIBLE)
        }
    }

    rgf8.setOnCheckedChangeListener { group, checkedId ->
        val radio: RadioButton = findViewById<RadioButton>(checkedId)
        var idx = rgf8.indexOfChild(radio)
        if (idx == 0) {
            F8_view(View.GONE)
        } else {
            F8_view(View.VISIBLE)
        }
    }
}

fun F3_view(view: Int) {
    // F4
    card_view2.visibility = view
    // F5
    card_view3.visibility = view
    // F6
    card_view4.visibility = view
    // F7
    card_view5.visibility = view
    // F7a
    card_view6.visibility = view
}

fun F8_view(view: Int) {
    // F9
    card_view8.visibility = view
    // F10

```

```

        card_view9.visibility = view
//        F13
        card_view11.visibility = view
//        F14
        card_view12.visibility = view
//        F15
        card_view13.visibility = view
//        F16
        card_view14.visibility = view
    }

    fun jawab_lainnya() {
        if (f4_15.isChecked) {
            f4_15_other.visibility = View.VISIBLE
        } else {
            f4_15_other.visibility = View.GONE
        }
        f4_15.setOnClickListener {
            if (f4_15.isChecked) {
                f4_15_other.visibility = View.VISIBLE
            } else {
                f4_15_other.visibility = View.GONE
            }
        }
    }

    if (f11_5.isChecked) {
        f11_5_other.visibility = View.VISIBLE
    } else {
        f11_5_other.visibility = View.GONE
    }
    f11_5.setOnClickListener {
        if (f11_5.isChecked) {
            f11_5_other.visibility = View.VISIBLE
        } else {
            f11_5_other.visibility = View.GONE
        }
    }
}

    if (f9_5.isChecked) {
        f9_5_other.visibility = View.VISIBLE
    } else {
        f9_5_other.visibility = View.GONE
    }
    f9_5.setOnClickListener {
        if (f9_5.isChecked) {
            f9_5_other.visibility = View.VISIBLE
        } else {
            f9_5_other.visibility = View.GONE
        }
    }
}

```

```

    }
}

var id_rg10 = rgf10.checkedRadioButtonId
if (id_rg10 != -1) {
    val radio: RadioButton = findViewById(id_rg10)
    var idx = rgf10.indexOfChild(radio)
    if (idx == 4) {
        f10_5_other.visibility = View.VISIBLE
    } else {
        f10_5_other.visibility = View.GONE
    }
} else {
    f10_5_other.visibility = View.GONE
}

rgf10.setOnCheckedChangeListener(RadioGroup.OnCheckedChangeListener
{ group, checkedId ->
    val radio: RadioButton = findViewById(checkedId)
    var idx = rgf10.indexOfChild(radio)
    if (idx == 4) {
        f10_5_other.visibility = View.VISIBLE
    } else {
        f10_5_other.visibility = View.GONE
    }
}))

if (f16_12.isChecked) {
    f16_12_other.visibility = View.VISIBLE
} else {
    f16_12_other.visibility = View.GONE
}
f16_12.setOnClickListener {
    if (f16_12.isChecked) {
        f16_12_other.visibility = View.VISIBLE
    } else {
        f16_12_other.visibility = View.GONE
    }
}
}

fun loadData() {
    firestoreListener = firestoreDB!!
        .collection("tracerstudy")
        .document(nim_s)
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
            }
        })
}

```

```

        pbLoading.visibility = View.GONE
        return@EventListener
    }
    if (documentSnapshots != null) {
        if (documentSnapshots.get("F3") != null)

(rgf3.getChildAt(documentSnapshots.get("F3").toString().toInt()) as
RadioButton).isChecked =

            true
            if (documentSnapshots.get("F4_1") != null)
                f4_1.isChecked =
documentSnapshots.get("F4_1").toString().toInt().toBoolean()
            if (documentSnapshots.get("F4_2") != null)
                f4_2.isChecked =
documentSnapshots.get("F4_2").toString().toInt().toBoolean()
            if (documentSnapshots.get("F4_3") != null)
                f4_3.isChecked =
documentSnapshots.get("F4_3").toString().toInt().toBoolean()
            if (documentSnapshots.get("F4_4") != null)
                f4_4.isChecked =
documentSnapshots.get("F4_4").toString().toInt().toBoolean()
            if (documentSnapshots.get("F4_5") != null)
                f4_5.isChecked =
documentSnapshots.get("F4_5").toString().toInt().toBoolean()
            if (documentSnapshots.get("F4_6") != null)
                f4_6.isChecked =
documentSnapshots.get("F4_6").toString().toInt().toBoolean()
            if (documentSnapshots.get("F4_7") != null)
                f4_7.isChecked =
documentSnapshots.get("F4_7").toString().toInt().toBoolean()
            if (documentSnapshots.get("F4_8") != null)
                f4_8.isChecked =
documentSnapshots.get("F4_8").toString().toInt().toBoolean()
            if (documentSnapshots.get("F4_9") != null)
                f4_9.isChecked =
documentSnapshots.get("F4_9").toString().toInt().toBoolean()
            if (documentSnapshots.get("F4_10") != null)
                f4_10.isChecked =
documentSnapshots.get("F4_10").toString().toInt().toBoolean()
            if (documentSnapshots.get("F4_11") != null)
                f4_11.isChecked =
documentSnapshots.get("F4_11").toString().toInt().toBoolean()
            if (documentSnapshots.get("F4_12") != null)
                f4_12.isChecked =
documentSnapshots.get("F4_12").toString().toInt().toBoolean()
            if (documentSnapshots.get("F4_13") != null)
                f4_13.isChecked =
documentSnapshots.get("F4_13").toString().toInt().toBoolean()

```

```

        if (documentSnapshots.get("F4_14") != null)
            f4_14.isChecked =
documentSnapshots.get("F4_14").toString().toInt().toBoolean()
        if (documentSnapshots.get("F4_15") != null)
            f4_15.isChecked =
documentSnapshots.get("F4_15").toString().toInt().toBoolean()
        if (documentSnapshots.get("F4_15_other") != null)

f4_15_other.setText(documentSnapshots.get("F4_15_other").toString())
        if (documentSnapshots.get("F5") != null)

(rgf5.getChildAt(documentSnapshots.get("F5").toString().toInt()) as
RadioButton).isChecked =

            true
        if (documentSnapshots.get("F6") != null)
            f6.setText(documentSnapshots.get("F6").toString())
        if (documentSnapshots.get("F7") != null)
            f7.setText(documentSnapshots.get("F7").toString())
        if (documentSnapshots.get("F7a") != null)
            f7a.setText(documentSnapshots.get("F7a").toString())
        if (documentSnapshots.get("F8") != null)

(rgf8.getChildAt(documentSnapshots.get("F8").toString().toInt()) as
RadioButton).isChecked =

            true
        if (documentSnapshots.get("F9_1") != null)
            f9_1.isChecked =
documentSnapshots.get("F9_1").toString().toInt().toBoolean()
        if (documentSnapshots.get("F9_2") != null)
            f9_2.isChecked =
documentSnapshots.get("F9_2").toString().toInt().toBoolean()
        if (documentSnapshots.get("F9_3") != null)
            f9_3.isChecked =
documentSnapshots.get("F9_3").toString().toInt().toBoolean()
        if (documentSnapshots.get("F9_4") != null)
            f9_4.isChecked =
documentSnapshots.get("F9_4").toString().toInt().toBoolean()
        if (documentSnapshots.get("F9_5") != null)
            f9_5.isChecked =
documentSnapshots.get("F9_5").toString().toInt().toBoolean()
        if (documentSnapshots.get("F9_5_other") != null)

f9_5_other.setText(documentSnapshots.get("F9_5_other").toString())
        if (documentSnapshots.get("F10") != null)

(rgf10.getChildAt(documentSnapshots.get("F10").toString().toInt()) as
RadioButton).isChecked =

            true

```

```

        if (documentSnapshots.get("F11_1") != null)
            f11_1.isChecked =
documentSnapshots.get("F11_1").toString().toInt().toBoolean()
        if (documentSnapshots.get("F11_2") != null)
            f11_2.isChecked =
documentSnapshots.get("F11_2").toString().toInt().toBoolean()
        if (documentSnapshots.get("F11_3") != null)
            f11_3.isChecked =
documentSnapshots.get("F11_3").toString().toInt().toBoolean()
        if (documentSnapshots.get("F11_4") != null)
            f11_4.isChecked =
documentSnapshots.get("F11_4").toString().toInt().toBoolean()
        if (documentSnapshots.get("F11_5") != null)
            f11_5.isChecked =
documentSnapshots.get("F11_5").toString().toInt().toBoolean()
        if (documentSnapshots.get("F11_5_other") != null)

f11_5_other.setText(documentSnapshots.get("F11_5_other").toString())
        if (documentSnapshots.get("F11_6") != null)

f11_6.setText(documentSnapshots.get("F11_6").toString())
        if (documentSnapshots.get("F11_7") != null)

f11_7.setText(documentSnapshots.get("F11_7").toString())
        if (documentSnapshots.get("F11_8") != null)

f11_8.setText(documentSnapshots.get("F11_8").toString())
        if (documentSnapshots.get("F11_9") != null)

f11_9.setText(documentSnapshots.get("F11_9").toString())
        if (documentSnapshots.get("F13") != null)

(rgf13.getChildAt(documentSnapshots.get("F13").toString().toInt()) as
RadioButton).isChecked =

            true
            if (documentSnapshots.get("F14") != null) {
                F14 = documentSnapshots.get("F14").toString().toInt()
                if (F14 > 0) {
                    (rgf14.getChildAt(F14) as
RadioButton).isChecked = true
                }
            }
            if (documentSnapshots.get("F15") != null)

f15.setSelection(documentSnapshots.get("F15").toString().toInt())
        if (documentSnapshots.get("F16_1") != null)
            f16_1.isChecked =
documentSnapshots.get("F16_1").toString().toInt().toBoolean()

```



```

        if (documentSnapshots.get("F16_2") != null)
            f16_2.isChecked =
documentSnapshots.get("F16_2").toString().toInt().toBoolean()
            if (documentSnapshots.get("F16_3") != null)
                f16_3.isChecked =
documentSnapshots.get("F16_3").toString().toInt().toBoolean()
                if (documentSnapshots.get("F16_4") != null)
                    f16_4.isChecked =
documentSnapshots.get("F16_4").toString().toInt().toBoolean()
                    if (documentSnapshots.get("F16_5") != null)
                        f16_5.isChecked =
documentSnapshots.get("F16_5").toString().toInt().toBoolean()
                        if (documentSnapshots.get("F16_6") != null)
                            f16_6.isChecked =
documentSnapshots.get("F16_6").toString().toInt().toBoolean()
                            if (documentSnapshots.get("F16_7") != null)
                                f16_7.isChecked =
documentSnapshots.get("F16_7").toString().toInt().toBoolean()
                                if (documentSnapshots.get("F16_8") != null)
                                    f16_8.isChecked =
documentSnapshots.get("F16_8").toString().toInt().toBoolean()
                                    if (documentSnapshots.get("F16_9") != null)
                                        f16_9.isChecked =
documentSnapshots.get("F16_9").toString().toInt().toBoolean()
                                        if (documentSnapshots.get("F16_10") != null)
                                            f16_10.isChecked =
documentSnapshots.get("F16_10").toString().toInt().toBoolean()
                                            if (documentSnapshots.get("F16_11") != null)
                                                f16_11.isChecked =
documentSnapshots.get("F16_11").toString().toInt().toBoolean()
                                                if (documentSnapshots.get("F16_12") != null)
                                                    f16_12.isChecked =
documentSnapshots.get("F16_12").toString().toInt().toBoolean()
                                                    if (documentSnapshots.get("F16_12_other") != null)
                                                        f16_12_other.setText(documentSnapshots.get("F16_12_other").toString())
                                                            if (documentSnapshots.get("F17_1") != null)

(rgf17_1.getChildAt(documentSnapshots.get("F17_1").toString().toInt()) as
RadioButton).isChecked =
true
if (documentSnapshots.get("F17_2") != null)

(rgf17_2.getChildAt(documentSnapshots.get("F17_2").toString().toInt()) as
RadioButton).isChecked =
true
    }
pbLoading.visibility = View.GONE

```

```

        jawab_lainnya()
        jawaban_visible()
    })
}

fun validasi() {
    F3 = radioInt(rgf3)
    F4_1 = f4_1.isChecked.toInt()
    F4_2 = f4_2.isChecked.toInt()
    F4_3 = f4_3.isChecked.toInt()
    F4_4 = f4_4.isChecked.toInt()
    F4_5 = f4_5.isChecked.toInt()
    F4_6 = f4_6.isChecked.toInt()
    F4_7 = f4_7.isChecked.toInt()
    F4_8 = f4_8.isChecked.toInt()
    F4_9 = f4_9.isChecked.toInt()
    F4_10 = f4_10.isChecked.toInt()
    F4_11 = f4_11.isChecked.toInt()
    F4_12 = f4_12.isChecked.toInt()
    F4_13 = f4_13.isChecked.toInt()
    F4_14 = f4_14.isChecked.toInt()
    F4_15 = f4_15.isChecked.toInt()
    F4_15_other = f4_15_other.text.toString()
    F5 = radioInt(rgf5)
    F6 = f6.text.toString()
    F7 = f7.text.toString()
    F7a = f7a.text.toString()
    F8 = radioInt(rgf8)
    F9_1 = f9_1.isChecked.toInt()
    F9_2 = f9_2.isChecked.toInt()
    F9_3 = f9_3.isChecked.toInt()
    F9_4 = f9_4.isChecked.toInt()
    F9_5 = f9_5.isChecked.toInt()
    F9_5_other = f9_5_other.text.toString()
    F10 = radioInt(rgf10)
    F10_other = f10_5_other.text.toString()
    F11_1 = f11_1.isChecked.toInt()
    F11_2 = f11_2.isChecked.toInt()
    F11_3 = f11_3.isChecked.toInt()
    F11_4 = f11_4.isChecked.toInt()
    F11_5 = f11_5.isChecked.toInt()
    F11_5_other = f11_5_other.text.toString()
    F11_6 = f11_6.text.toString()
    F11_7 = f11_7.text.toString()
    F11_8 = f11_8.text.toString()
    F11_9 = f11_9.text.toString()
    F13 = radioInt(rgf13)
    F14 = radioInt(rgf14)
}

```

```

F15 = f15.selectedItemPosition
F16_1 = f16_1.isChecked.toInt()
F16_2 = f16_2.isChecked.toInt()
F16_3 = f16_3.isChecked.toInt()
F16_4 = f16_4.isChecked.toInt()
F16_5 = f16_5.isChecked.toInt()
F16_6 = f16_6.isChecked.toInt()
F16_7 = f16_7.isChecked.toInt()
F16_8 = f16_8.isChecked.toInt()
F16_9 = f16_9.isChecked.toInt()
F16_10 = f16_10.isChecked.toInt()
F16_11 = f16_11.isChecked.toInt()
F16_12 = f16_12.isChecked.toInt()
F16_12_other = f16_12_other.text.toString()
F17_1 = radioInt(rgf17_1)
F17_2 = radioInt(rgf17_2)

val F4 = F4_1 + F4_2 + F4_3 + F4_4 + F4_5 + F4_6 + F4_7 + F4_8 +
F4_9 + F4_10 + F4_11 + F4_12 + F4_13 + F4_14 + F4_15
val F9 = F9_1 + F9_2 + F9_3 + F9_4 + F9_5
val F11 = F11_1 + F11_2 + F11_3 + F11_4 + F11_5
val F16 = F16_1 + F16_2 + F16_3 + F16_4 + F16_5 + F16_6 + F16_7 +
F16_8 + F16_9 + F16_10 + F16_11 + F16_12

if (F3 == 999) {
    Snackbar.make(root_layout, "F3 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F4 == 0 && card_view2.visibility != View.GONE) {
        Snackbar.make(root_layout, "F4 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F4_15 == 1 && f4_15_other.text.toString().isEmpty() &&
card_view2.visibility != View.GONE) {
        f4_15_other.requestFocus()
        f4_15_other.setError("harus diisi!!!")
        Snackbar.make(root_layout, "F4 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F5 == 999 && card_view3.visibility != View.GONE) {
        Snackbar.make(root_layout, "F5 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F6.isEmpty() && card_view4.visibility != View.GONE) {
        Snackbar.make(root_layout, "F6 harus di isi!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F7.isEmpty() && card_view5.visibility != View.GONE) {
        Snackbar.make(root_layout, "F7 harus di isi!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F7a.isEmpty() && card_view6.visibility != View.GONE) {
        Snackbar.make(root_layout, "F7a harus di isi!!!",

```

```

Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F8 == 999) {
        Snackbar.make(root_layout, "F8 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F9 == 0 && card_view8.visibility != View.GONE) {
        Snackbar.make(root_layout, "F9 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F9_5 == 1 && f9_5_other.text.toString().isEmpty() &&
card_view8.visibility != View.GONE) {
        f9_5_other.requestFocus()
        f9_5_other.setError("harus diisi!!!")
        Snackbar.make(root_layout, "F9 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F10 == 999 && card_view9.visibility != View.GONE) {
        Snackbar.make(root_layout, "F10 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F10 == 5 && f10_5_other.text.toString().isEmpty() &&
card_view9.visibility != View.GONE) {
        f10_5_other.requestFocus()
        f10_5_other.setError("harus diisi!!!")
        Snackbar.make(root_layout, "F10 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F11 == 0) {
        Snackbar.make(root_layout, "F11 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F11_5 == 1 && f11_5_other.text.toString().isEmpty()) {
        f11_5_other.requestFocus()
        f11_5_other.setError("harus diisi!!!")
        Snackbar.make(root_layout, "F11 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (f11_6.text.toString().isEmpty()) {
        f11_6.requestFocus()
        f11_6.setError("'-' jikat tidak di isi !!!")
        Snackbar.make(root_layout, "Instansi harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (f11_7.text.toString().isEmpty()) {
        f11_7.requestFocus()
        f11_7.setError("'-' jikat tidak di isi !!!")
        Snackbar.make(root_layout, "Instansi harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (f11_8.text.toString().isEmpty()) {
        f11_8.requestFocus()
        f11_8.setError("'-' jikat tidak di isi !!!")
        Snackbar.make(root_layout, "Instansi harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (f11_9.text.toString().isEmpty()) {
        f11_9.requestFocus()
        f11_9.setError("'-' jikat tidak di isi !!!")

```

```

        Snackbar.make(root_layout, "Instansi harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F13 == 999 && card_view11.visibility != View.GONE) {
        Snackbar.make(root_layout, "F13 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F14 == 999 && card_view12.visibility != View.GONE) {
        Snackbar.make(root_layout, "F14 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F15 == 0 && card_view13.visibility != View.GONE) {
        Snackbar.make(root_layout, "F15 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F16 == 0 && card_view14.visibility != View.GONE) {
        Snackbar.make(root_layout, "F16 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F16_12 == 1 && f16_12_other.text.toString().isEmpty()) {
        f16_12_other.requestFocus()
        f16_12_other.setError("harus di isi!!!")
        Snackbar.make(root_layout, "F16 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F17_1 == 999) {
        Snackbar.make(root_layout, "F17-1 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else if (F17_2 == 999) {
        Snackbar.make(root_layout, "F17-2 harus dipilih!!!",
Snackbar.LENGTH_LONG).setAction("Close", {}).show()
    } else {
        val data = HashMap<String, Any>()
        data.put("F3", F3)
        data.put("F8", F8)
        data.put("F11_1", F11_1)
        data.put("F11_2", F11_2)
        data.put("F11_3", F11_3)
        data.put("F11_4", F11_4)
        data.put("F11_5", F11_5)
        data.put("F11_5_other", F11_5_other)
        data.put("F11_6", F11_6)
        data.put("F11_7", F11_7)
        data.put("F11_8", F11_8)
        data.put("F11_9", F11_9)
        data.put("F17_1", F17_1)
        data.put("F17_2", F17_2)
        data.put("TS_4", 1)
        Log.d("tracerstudy=>", data.toString())

        if (F3 == 3) {
            data.put("F4_1", FieldValue.delete())
            data.put("F4_2", FieldValue.delete())
            data.put("F4_3", FieldValue.delete())

```

```

data.put("F4_4", FieldValue.delete())
data.put("F4_5", FieldValue.delete())
data.put("F4_6", FieldValue.delete())
data.put("F4_7", FieldValue.delete())
data.put("F4_8", FieldValue.delete())
data.put("F4_9", FieldValue.delete())
data.put("F4_10", FieldValue.delete())
data.put("F4_11", FieldValue.delete())
data.put("F4_12", FieldValue.delete())
data.put("F4_13", FieldValue.delete())
data.put("F4_14", FieldValue.delete())
data.put("F4_15", FieldValue.delete())
data.put("F4_15_other", FieldValue.delete())
data.put("F5", FieldValue.delete())
data.put("F6", FieldValue.delete())
data.put("F7", FieldValue.delete())
data.put("F7a", FieldValue.delete())
} else {
    data.put("F4_1", F4_1)
    data.put("F4_2", F4_2)
    data.put("F4_3", F4_3)
    data.put("F4_4", F4_4)
    data.put("F4_5", F4_5)
    data.put("F4_6", F4_6)
    data.put("F4_7", F4_7)
    data.put("F4_8", F4_8)
    data.put("F4_9", F4_9)
    data.put("F4_10", F4_10)
    data.put("F4_11", F4_11)
    data.put("F4_12", F4_12)
    data.put("F4_13", F4_13)
    data.put("F4_14", F4_14)
    data.put("F4_15", F4_15)
    data.put("F4_15_other", F4_15_other)
    data.put("F5", F5)
    data.put("F6", F6)
    data.put("F7", F7)
    data.put("F7a", F7a)
}

if (F8==0) {
    data.put("F9_1", FieldValue.delete())
    data.put("F9_2", FieldValue.delete())
    data.put("F9_3", FieldValue.delete())
    data.put("F9_4", FieldValue.delete())
    data.put("F9_5", FieldValue.delete())
    data.put("F9_5_other", FieldValue.delete())
    data.put("F10", FieldValue.delete())
}

```

```

        data.put("F10_other", FieldValue.delete())
        data.put("F13", FieldValue.delete())
        data.put("F14", FieldValue.delete())
        data.put("F15", FieldValue.delete())
        data.put("F16_1", FieldValue.delete())
        data.put("F16_2", FieldValue.delete())
        data.put("F16_3", FieldValue.delete())
        data.put("F16_4", FieldValue.delete())
        data.put("F16_5", FieldValue.delete())
        data.put("F16_6", FieldValue.delete())
        data.put("F16_7", FieldValue.delete())
        data.put("F16_8", FieldValue.delete())
        data.put("F16_9", FieldValue.delete())
        data.put("F16_10", FieldValue.delete())
        data.put("F16_11", FieldValue.delete())
        data.put("F16_12", FieldValue.delete())
        data.put("F16_12_other", FieldValue.delete())
    } else {
        data.put("F9_1", F9_1)
        data.put("F9_2", F9_2)
        data.put("F9_3", F9_3)
        data.put("F9_4", F9_4)
        data.put("F9_5", F9_5)
        data.put("F9_5_other", F9_5_other)
        data.put("F10", F10)
        data.put("F10_other", F10_other)
        data.put("F13", F13)
        data.put("F14", F14)
        data.put("F15", F15)
        data.put("F16_1", F16_1)
        data.put("F16_2", F16_2)
        data.put("F16_3", F16_3)
        data.put("F16_4", F16_4)
        data.put("F16_5", F16_5)
        data.put("F16_6", F16_6)
        data.put("F16_7", F16_7)
        data.put("F16_8", F16_8)
        data.put("F16_9", F16_9)
        data.put("F16_10", F16_10)
        data.put("F16_11", F16_11)
        data.put("F16_12", F16_12)
        data.put("F16_12_other", F16_12_other)
    }

```

```

simpan(data)
onBackPressed()

```

```

    }
}

```

```

fun simpan(data: HashMap<String, Any>) {
    firestoreDB!!.collection("tracerstudy")
        .document(nim_s)
        .get()
        .addOnSuccessListener { task ->
            if (task.exists()) {
                firestoreDB!!.collection("tracerstudy")
                    .document(nim_s)
                    .update(data)
                    .addOnSuccessListener {}
            } else {
                firestoreDB!!.collection("tracerstudy")
                    .document(nim_s)
                    .set(data)
                    .addOnSuccessListener {}
            }
        }
    }

fun radioInt(rg: RadioGroup): Int {
    var id_rg = rg.checkedRadioButtonId
    var idx = 0
    if (id_rg != -1) {
        val radio: RadioButton = findViewById(id_rg)
        idx = rg.indexOfChild(radio)
    } else {
        idx = 999
    }
    return idx
}

fun Int.toBoolean(): Boolean {
    return this == 1
}

fun Boolean.toInt(): Int {
    return if (this == true) 1 else 0
}
}

```

#### 5.24 Validasi0Activity.kt

```

package com.unibba.traceralumni2019.activity

import android.content.Intent
import android.os.Bundle
import android.util.Log
import androidx.appcompat.app.AppCompatActivity

```



```

import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.InternetCheck
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_validasi0.*

class Validasi0Activity : AppCompatActivity() {

    private val TAG = "Validasi0Activity"
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var internetCheck: InternetCheck
    private lateinit var auth: FirebaseAuth
    private lateinit var sessionManager: SessionManager

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_validasi0)
        firestoreDB = FirebaseFirestore.getInstance()
        auth = FirebaseAuth.getInstance()
        sessionManager = SessionManager(this)
        internetCheck = InternetCheck()
        internetCheck.connect(this)
        btnTutup.setOnClickListener {
            finish()
        }
        val id = sessionManager.getValidasi().get("id_valid").toString()
        val nim = sessionManager.getValidasi().get("nim_valid").toString()
        firestoreListener = firestoreDB!!
            .collection("users_register")
            .whereEqualTo("nim", nim)
            .addSnapshotListener(EventListener { documentSnapshots, e ->
                if (e != null) {
                    Log.e(TAG, "Listen failed!", e)
                    return@EventListener
                }

                for (doc in documentSnapshots!!) {

                    if (id.equals(doc.id) &&
doc.get("validasi").toString().equals("1")) {
                        login("""+doc.get("email").toString(),
                            """+doc.get("password").toString())
                        break
                    } else if (id.equals(doc.id) &&

```

```

doc.get("validasi").toString().equals("2")) {
    val intent = Intent(applicationContext,
Validasi2Activity::class.java)

    intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
        startActivity(intent)
        break
    }
    })
}

fun login(email:String, password:String){
    auth.signInWithEmailAndPassword(email, password)
    val intent = Intent(applicationContext, Validasi1Activity::class.java)
    intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
    intent.putExtra("email", email)
    intent.putExtra("password", password)
    startActivity(intent)
}
}

```

### 5.25 Validasi1Activity.kt

```

package com.unibba.traceralumni2019.activity

import android.content.Intent
import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity
import com.google.firebase.auth.FirebaseAuth
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_validasi1.*

class Validasi1Activity : AppCompatActivity() {

    private lateinit var sessionManager: SessionManager
    private lateinit var auth: FirebaseAuth

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_validasi1)
        auth = FirebaseAuth.getInstance()
        sessionManager = SessionManager(this)
        val intent = intent
        val b = intent.extras
    }
}

```

```

        if (b != null) {
            val email = b.get("email").toString()
            val password = b.get("password").toString()
            auth.signInWithEmailAndPassword(email, password)
        }

        btnMulai.setOnClickListener {
            val intent = Intent(applicationContext,
Tracerstudy0Activity::class.java)
            intent.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP or
Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
            startActivity(intent)
        }
    }
}

```

### 5.26 Validasi2Activity.kt

```

package com.unibba.traceralumni2019.activity

import android.content.Intent
import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity
import com.google.firebase.firestore.FirebaseFirestore
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.activity_validasi2.*

class Validasi2Activity : AppCompatActivity() {

    private var firestoreDB: FirebaseFirestore? = null
    private lateinit var sessionManager: SessionManager

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_validasi2)
        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(this)

        btnRegister.setOnClickListener {
            val id = sessionManager.getValidasi().get("id_valid").toString()
            System.out.println("id_valid=>" + id)
            firestoreDB!!
                .collection("users_register")
                .document(id)
                .delete()
            sessionManager.clearvalidasi()
            val intent = Intent(applicationContext, DaftarActivity::class.java)

```

```

        intent.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP or
Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
        startActivity(intent)
    }
    btnTutup.setOnClickListener {
        finish()
    }
}
}

```

## 6. Adapter

### 6.1 AlumniAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.content.Intent
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.ImageView
import android.widget.TextView
import androidx.recyclerview.widget.RecyclerView
import com.google.firebase.firestore.FirebaseFirestore
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.activity.ListAlumniActivity
import com.unibba.traceralumni2019.model.Alumni
import com.unibba.traceralumni2019.util.SessionManager

class AlumniAdapter (
    private val alumniList: MutableList<Alumni>,
    private var context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<AlumniAdapter.ViewHolder>(){
    var sessionManager = SessionManager(context)
    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
        val view =
LayoutInflater.from(parent.context).inflate(R.layout.fragment_info_list_alumni_adapter, parent, false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        val list = alumniList[position]
    }
}

```

```

        holder.textAngkatan.text = list.angkatan
        holder.textJumlah.text = list.jumlah

        holder.itemView.setOnClickListener {
            //form intent list alumni
            val intent = Intent(context, ListAlumniActivity::class.java)
            intent.putExtra("angkatan",list.id)
            intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
            context.startActivity(intent)
        }
    }

    override fun getItemCount(): Int {
        return alumniList.size
    }

    inner class ViewHolder internal constructor(view: View) :
        RecyclerView.ViewHolder(view) {
        internal var imageView: ImageView
        internal var textAngkatan: TextView
        internal var textJumlah: TextView

        init {
            imageView = view.findViewById(R.id.imageView)
            textAngkatan = view.findViewById(R.id.textAngkatan)
            textJumlah = view.findViewById(R.id.textJumlah)
        }
    }
}

```

## 6.2 ChatAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.content.Intent
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.Filter
import android.widget.Filterable
import android.widget.ImageView
import android.widget.TextView
import androidx.recyclerview.widget.RecyclerView
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions
import com.google.firebase.firestore.FirebaseFirestore
import com.unibba.traceralumni2019.R

```

```

import com.unibba.traceralumni2019.activity.ChatActivity
import com.unibba.traceralumni2019.model.Chat
import com.unibba.traceralumni2019.util.SessionManager
import com.vanniktech.emoji.EmojiTextView
import kotlin.collections.ArrayList

class ChatAdapter(
    private var ChatList: MutableList<Chat>,
    private val context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<ChatAdapter.ViewHolder>(), Filterable {
    private val TAG = "ChatAdapter"
    var sessionManager = SessionManager(context)
    var nim_s = sessionManager.getLogin().get("nim").toString()
    var filterList = ChatList
    var filter: CustomFilter? = null

    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
        val view =
LayoutInflater.from(parent.context).inflate(R.layout.fragment_chat_adapter, parent,
false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        val list = ChatList[position]

        Glide.with(context).load(list.image_url)
            .apply(
                RequestOptions()
                    .circleCrop()
                    .centerCrop()
                    .error(R.drawable.ic_user)
                    .placeholder(R.drawable.ic_user)
            )
            .apply(RequestOptions.circleCropTransform())
            .into(holder.imageView)
        holder.labelNama.text = "[" + list.uid + "]" + list.nama
        holder.labelTanggal.text = "" + list.timestamp
        holder.labelPesan.text = "" + list.pesan
        holder.labelCount.text = "" + list.read
        if (list.read == 0)
            holder.labelCount.visibility = View.GONE

        holder.itemView.setOnClickListener {
            val intent = Intent(context, ChatActivity::class.java)

```

```

        intent.putExtra("id", list.id)
        intent.putExtra("token", list.token)
        intent.putExtra("uid", list.uid)
        intent.putExtra("nama", list.nama)
        intent.putExtra("last_seen", list.last_seen)
        intent.putExtra("image_url", list.image_url)
        intent.putExtra("new", false)
        intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
        context.startActivity(intent)
    }
}

override fun getItemCount(): Int {
    return ChatList.size
}

inner class ViewHolder internal constructor(view: View) :
RecyclerView.ViewHolder(view) {
    internal var imageView: ImageView
    internal var labelTanggal: TextView
    internal var labelNama: TextView
    internal var labelPesanan: EmojiTextView
    internal var labelCount: TextView

    init {
        imageView = view.findViewById(R.id.imageView)
        labelTanggal = view.findViewById(R.id.labelTanggal)
        labelNama = view.findViewById(R.id.labelNama)
        labelPesanan = view.findViewById(R.id.labelPesanan)
        labelCount = view.findViewById(R.id.labelCount)
    }
}

override fun getFilter(): Filter {
    if (filter == null) {
        filter = CustomFilter(filterList as ArrayList<Chat>, this)
    }
    return filter as CustomFilter
}

class CustomFilter(internal var filterList: ArrayList<Chat>, internal var adapter:
ChatAdapter) : Filter() {

    //FILTERING OCURS
    override fun performFiltering(constraint: CharSequence?): FilterResults {
        var constraint = constraint
        val results = Filter.FilterResults()
        //CHECK CONSTRAINT VALIDITY

```

```

        if (constraint != null && constraint.length > 0) {
            //CHANGE TO UPPER
            constraint = constraint.toString().toUpperCase()
            //STORE OUR FILTERED PLAYERS
            val filteredPlayers = ArrayList<Chat>()
            for (i in filterList.indices) {
                //CHECK
                if (filterList[i].id!!.toUpperCase().contains(constraint) ||
                    filterList[i].nama!!.toUpperCase().contains(constraint)
                ) {
                    //ADD PLAYER TO FILTERED PLAYERS
                    filteredPlayers.add(filterList[i])
                }
            }
            results.count = filteredPlayers.size
            results.values = filteredPlayers
        } else {
            results.count = filterList.size
            results.values = filterList
        }
        return results
    }

    override fun publishResults(constraint: CharSequence, results:
FilterResults) {
        adapter.ChatList = results.values as ArrayList<Chat>
        //REFRESH
        adapter.notifyDataSetChanged()
    }
}
}

```

### 6.3 ChatKontakAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.content.Intent
import android.text.TextUtils
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.Filter
import android.widget.Filterable
import android.widget.ImageView
import android.widget.TextView
import androidx.recyclerview.widget.RecyclerView
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions

```



```

import com.google.firebase.firestore.FirebaseFirestore
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.activity.ChatActivity
import com.unibba.traceralumni2019.model.ChatKontak
import com.unibba.traceralumni2019.util.Imageutil
import com.unibba.traceralumni2019.util.SessionManager

class ChatKontakAdapter(
    private var alumniList: MutableList<ChatKontak>,
    private var context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<ChatKontakAdapter.ViewHolder>(), Filterable {
    private val TAG = "ChatKontakAdapter"
    var sessionManager = SessionManager(context)
    var imageconvert = Imageutil()
    var filterList = alumniList
    var filter: CustomFilter? = null
    var nim_s = sessionManager.getLogin().get("nim").toString()

    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
        val view =
LayoutInflater.from(parent.context).inflate(R.layout.activity_list_alumni_adapter,
parent, false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        val list = alumniList[position]
        var tnt = "Hai, saya baru saja bergabung di Tracer Alumni Unibba"

        Glide.with(context).load(list.image_url)
            .apply(
                RequestOptions()
                    .circleCrop()
                    .centerCrop()
                    .error(R.drawable.ic_user)
                    .placeholder(R.drawable.ic_user)
            )
            .apply(RequestOptions.circleCropTransform())
            .into(holder.imageView)
        holder.textNama.text = "[" + list.nim + "]" + list.nama
        if (!TextUtils.isEmpty(list.tentang))
            tnt = list.tentang!!
        holder.textTentang.text = tnt

        holder.itemView.setOnClickListener {
            //form intent list alumni

```

```

        firestoreDB.collection("chat")
            .whereArrayContains("userid", list.nim.toString())
            .get()
            .addOnCompleteListener { task ->
                var id = ""
                var new = false
                if (task.isSuccessful) {
                    val document = task.result
                    if (document != null) {
                        for (doc in document) {
                            if (doc.get("userid") != null) {
                                val userid = doc.get("userid") as
ArrayList<String>

                                userid.remove(nim_s)
                                if (userid[0].equals(list.nim)) {
                                    id = doc.id
                                    new = false
                                    break
                                }
                            }
                        }
                    }

                    if (id.equals("")) {
                        id = list.nim + "_" + nim_s
                        new = true
                    }
                } else {
                    if (id.equals("")) {
                        id = list.nim + "_" + nim_s
                        new = true
                    }
                }
            }
        if (!nim_s.equals(list.nim)) {
            val intent = Intent(context, ChatActivity::class.java)
            intent.putExtra("id", id)
            intent.putExtra("uid", list.nim)
            intent.putExtra("nama", list.nama)
            intent.putExtra("tentang", list.tentang)
            intent.putExtra("last_seen", list.last_seen)
            intent.putExtra("token", list.token)
            intent.putExtra("akses", list.akses)
            intent.putExtra("image_url", list.image_url)
            intent.putExtra("new", new)

            intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
            context.startActivity(intent)
            System.out.println("id=>" + id)
        }
    }
}

```

```

        }
    }
}

override fun getItemCount(): Int {
    return alumniList.size
}

inner class ViewHolder internal constructor(view: View) :
RecyclerView.ViewHolder(view) {
    internal var imageView: ImageView
    internal var textNama: TextView
    internal var textTentang: TextView

    init {
        imageView = view.findViewById(R.id.imageView)
        textNama = view.findViewById(R.id.textNama)
        textTentang = view.findViewById(R.id.textTentang)
    }
}

override fun getFilter(): Filter {
    if (filter == null) {
        filter = CustomFilter(filterList as ArrayList<ChatKontak>, this)
    }
    return filter as CustomFilter
}

class CustomFilter(internal var filterList: ArrayList<ChatKontak>, internal var
adapter: ChatKontakAdapter) :
    Filter() {

    //FILTERING OCURS
    override fun performFiltering(constraint: CharSequence?): FilterResults {
        var constraint = constraint
        val results = Filter.FilterResults()
        //CHECK CONSTRAINT VALIDITY
        if (constraint != null && constraint.length > 0) {
            //CHANGE TO UPPER
            constraint = constraint.toString().toUpperCase()
            //STORE OUR FILTERED PLAYERS
            val filteredPlayers = ArrayList<ChatKontak>()
            for (i in filterList.indices) {
                //CHECK
                if (filterList[i].id!!.toUpperCase().contains(constraint) ||
                    filterList[i].nama!!.toUpperCase().contains(constraint)
                ) {

```

```

//ADD PLAYER TO FILTERED PLAYERS
filteredPlayers.add(filterList[i])
        }
    }
    results.count = filteredPlayers.size
    results.values = filteredPlayers
} else {
    results.count = filterList.size
    results.values = filterList
}
return results
}

override fun publishResults(constraint: CharSequence, results:
FilterResults) {
    adapter.alumniList = results.values as ArrayList<ChatKontak>
    //REFRESH
    adapter.notifyDataSetChanged()
}
}
}

```

#### 6.4 ChatMessageAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.view.Gravity
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.ImageView
import android.widget.LinearLayout
import android.widget.TextView
import androidx.appcompat.app.AlertDialog
import androidx.recyclerview.widget.RecyclerView
import com.google.firebase.firestore.FirebaseFirestore
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.ChatMessage
import com.unibba.traceralumni2019.util.SessionManager
import com.vanniktech.emoji.EmojiTextView

class ChatMessageAdapter(
    private val ChatMessageList: MutableList<ChatMessage>,
    private val context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<ChatMessageAdapter.ViewHolder>() {
    private val TAG = "ChatMessageAdapter"
    var sessionManager = SessionManager(context)
}

```

```

var nim_s = sessionManager.getLogin().get("nim").toString()

override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
    val view =
LayoutInflater.from(parent.context).inflate(R.layout.fragment_chat_message_adapter,
parent, false)
    return ViewHolder(view)
}

override fun onBindViewHolder(holder: ViewHolder, position: Int) {
    val list = ChatMessageList[position]

    if (list.uid.equals(nim_s)) {
        holder.ll_parent.gravity = Gravity.END

holder.ll_child.setBackgroundResource(R.drawable.chat_background_sender)
    } else {
        holder.ll_parent.gravity = Gravity.LEFT

holder.ll_child.setBackgroundResource(R.drawable.chat_background_receiver)
    }
    holder.texttanggal.text = "" + list.timestamp
    holder.textnama.text = "" + list.uid + "\n" + list.nama
    holder.textpesan.text = "" + list.pesan
    if (list.read == 0) {

holder.imageread.setImageResource(R.drawable.ic_done_all_gray_24dp)
    } else {

holder.imageread.setImageResource(R.drawable.ic_done_all_green_24dp)
    }

    holder.itemView.setOnLongClickListener {
        if (list.uid.equals(nim_s)) {
            val builder = AlertDialog.Builder(context)
            builder.setTitle("Messages")
            val item = arrayOf("Info", "Delete", "Cancel")
            builder.setItems(
                item
            ) { dialog, which ->
                when (which) {
                    0 -> dialog.showDate(
                        "" + list.timestamp.toString(),
                        "" + list.date_read.toString()
                    )
                    1 -> hapus("" + list.id_chat.toString(), "" +
list.id.toString())
                }
            }
        }
    }
}

```

```

                2 -> dialog.dismiss()
            }
        }
        builder.show()
    }
    true
}

}

override fun getItemCount(): Int {
    return ChatMessageList.size
}

inner class ViewHolder internal constructor(view: View) :
RecyclerView.ViewHolder(view) {
    internal var ll_parent: LinearLayout
    internal var ll_child: LinearLayout
    internal var texttanggal: EmojiTextView
    internal var textnama: EmojiTextView
    internal var textpesan: EmojiTextView
    internal var imageread: ImageView

    init {
        ll_parent = view.findViewById(R.id.ll_parent)
        ll_child = view.findViewById(R.id.ll_child)
        texttanggal = view.findViewById(R.id.texttanggal)
        textnama = view.findViewById(R.id.textnama)
        textpesan = view.findViewById(R.id.textpesan)
        imageread = view.findViewById(R.id.imageread)
    }
}

fun hapus(id_chat: String, id: String) {
    firestoreDB.collection("chat")
        .document(id_chat)
        .collection("messages")
        .document(id)
        .delete()
}

fun dialogshowDate(delivery: String, read: String) {
    val inflater =
context.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
    val formsView = inflater.inflate(R.layout.dialog_chat_showdate, null, false)
    var textdelivery: TextView
    var textread: TextView

```

```

        textdelivery = formsView.findViewById(R.id.textdelivery)
        textread = formsView.findViewById(R.id.textread)

        textdelivery.text = delivery
        textread.text = read

        val builder = AlertDialog.Builder(context)
        builder.setTitle("Message Info")
        builder.setView(formsView)
        builder.setCancelable(false)
        builder.setPositiveButton("Close", { dialog, which ->
            dialog.cancel()
        })
        builder.show()
    }
}

```

### 6.5 DayaSaingLulusanAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.recyclerview.widget.RecyclerView
import com.google.firebase.firestore.FirebaseFirestore
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.DayaSaingLulusan
import com.unibba.traceralumni2019.util.SessionManager

class DayaSaingLulusanAdapter (
    private val List: MutableList<DayaSaingLulusan>,
    private var context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<DayaSaingLulusanAdapter.ViewHolder>(){
    var sessionManager = SessionManager(context)
    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
    ViewHolder {
        val view =
        LayoutInflater.from(parent.context).inflate(R.layout.activity_laporan_rekap_data_trac
        er_alumni_daya_saing_lulusan, parent, false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        val list = List[position]
        holder.textViewdyl1.text = list.no
    }
}

```

```

        holder.textViewdyl2.text = list.nama
        holder.textViewdyl3.text = list.T1
        holder.textViewdyl4.text = list.T2
        holder.textViewdyl5.text = list.T3
        holder.textViewdyl6.text = list.T4
        holder.textViewdyl7.text = list.T5
        holder.textViewdyl8.text = list.T6

        holder.itemView.setOnClickListener {
            //form intent list alumni
            //      val intent = Intent(context, ListAlumniActivity::class.java)
            //      intent.putExtra("angkatan",list.id)
            //      intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
            //      context.startActivity(intent)
        }
    }

    override fun getItemCount(): Int {
        return List.size
    }

    inner class ViewHolder internal constructor(view: View) :
RecyclerView.ViewHolder(view) {
        internal var textViewdyl1: TextView
        internal var textViewdyl2: TextView
        internal var textViewdyl3: TextView
        internal var textViewdyl4: TextView
        internal var textViewdyl5: TextView
        internal var textViewdyl6: TextView
        internal var textViewdyl7: TextView
        internal var textViewdyl8: TextView

        init {
            textViewdyl1 = view.findViewById(R.id.textViewdyl1)
            textViewdyl2 = view.findViewById(R.id.textViewdyl2)
            textViewdyl3 = view.findViewById(R.id.textViewdyl3)
            textViewdyl4 = view.findViewById(R.id.textViewdyl4)
            textViewdyl5 = view.findViewById(R.id.textViewdyl5)
            textViewdyl6 = view.findViewById(R.id.textViewdyl6)
            textViewdyl7 = view.findViewById(R.id.textViewdyl7)
            textViewdyl8 = view.findViewById(R.id.textViewdyl8)
        }
    }
}

```

## 6.6 F2KepuasanPenggunaLulusanAdapter.kt

```
package com.unibba.traceralumni2019.adapter
```



```

import android.content.Context
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.recyclerview.widget.RecyclerView
import com.google.firebase.firestore.FirebaseFirestore
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.F2KepuasanPengguna
import com.unibba.traceralumni2019.util.SessionManager

class F2KepuasanPenggunaLulusanAdapter (
    private val List: MutableList<F2KepuasanPengguna>,
    private var context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<F2KepuasanPenggunaLulusanAdapter.ViewHolder>(){
    var sessionManager = SessionManager(context)
    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
        val view =
LayoutInflater.from(parent.context).inflate(R.layout.activity_laporan_rekap_tracer_al
umni_kepuasan_pengguna, parent, false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        val list = List[position]
        holder.textNo.text = list.no
        holder.textNama.text = list.aspek
        holder.text1.text = list.F2_1
        holder.text2.text = list.F2_2
        holder.text3.text = list.F2_3
        holder.text4.text = list.F2_4

        holder.itemView.setOnClickListener {
            //form intent list alumni
            // val intent = Intent(context, ListAlumniActivity::class.java)
            // intent.putExtra("angkatan",list.id)
            // intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
            // context.startActivity(intent)
        }
    }

    override fun getItemCount(): Int {
        return List.size
    }

    inner class ViewHolder internal constructor(view: View) :

```

```

RecyclerView.ViewHolder(view) {
    internal var textNo: TextView
    internal var textNama: TextView
    internal var text1: TextView
    internal var text2: TextView
    internal var text3: TextView
    internal var text4: TextView

    init {
        textNo = view.findViewById(R.id.textNo)
        textNama = view.findViewById(R.id.textNama)
        text1 = view.findViewById(R.id.text1)
        text2 = view.findViewById(R.id.text2)
        text3 = view.findViewById(R.id.text3)
        text4 = view.findViewById(R.id.text4)
    }
}
}

```

#### 6.7 F3InfoMasaTungguKerjaAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.recyclerview.widget.RecyclerView
import com.google.firebase.firestore.FirebaseFirestore
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.F3InfoMasaTungguKerja
import com.unibba.traceralumni2019.util.SessionManager

class F3InfoMasaTungguKerjaAdapter (
    private val List: MutableList<F3InfoMasaTungguKerja>,
    private var context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<F3InfoMasaTungguKerjaAdapter.ViewHolder>() {
    var sessionManager = SessionManager(context)
    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
        val view =
LayoutInflater.from(parent.context).inflate(R.layout.activity_laporan_rekap_tracer_al
umni_info_masa_tunggu_kerja, parent, false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {

```

```

        val list = List[position]
        holder.textjawaban.text = list.jawaban
        holder.textjumlah.text = list.jumlah
        holder.textpersentase.text = list.persentase

        holder.itemView.setOnClickListener {
            //form intent list alumni
            //      val intent = Intent(context, ListAlumniActivity::class.java)
            //      intent.putExtra("angkatan",list.id)
            //      intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
            //      context.startActivity(intent)
        }
    }

    override fun getItemCount(): Int {
        return List.size
    }

    inner class ViewHolder internal constructor(view: View) :
    RecyclerView.ViewHolder(view) {
        internal var textjawaban: TextView
        internal var textjumlah: TextView
        internal var textpersentase: TextView

        init {
            textjawaban = view.findViewById(R.id.textjawaban)
            textjumlah = view.findViewById(R.id.textjumlah)
            textpersentase = view.findViewById(R.id.textpersentase)
        }
    }
}

```

## 6.8 FakultasAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.util.Log
import android.view.LayoutInflater
import android.view.MenuItem
import android.view.View
import android.view.ViewGroup
import android.widget.*
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.widget.PopupMenu
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.DividerItemDecoration
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView

```

```

import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.SetOptions
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.Fakultas
import com.unibba.traceralumni2019.model.FakultasProdi
import com.unibba.traceralumni2019.util.MyDividerItemDecoration
import com.unibba.traceralumni2019.util.SessionManager
import java.util.*
import kotlin.collections.HashMap

class FakultasAdapter(
    private var List: MutableList<Fakultas>,
    private var context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<FakultasAdapter.ViewHolder>(), Filterable {
    private val TAG = "FakultasAdapter"
    var sessionManager = SessionManager(context)
    var filterList = List
    var filter: CustomFilter? = null

    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
        val view =
LayoutInflater.from(parent.context).inflate(R.layout.activity_fakultas_adapter, parent,
false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        val list = List[position]
        var prodis = ""
        var no = 0
        for (l in list.prodi.entries) {
            no++
            prodis += "" + no + ". [" + l.key + "] " + l.value + "\n"
        }
        holder.textNama.text = list.nama
        holder.textProdi.text = prodis
        holder.edit.setOnClickListener {
            //creating a popup menu
            val popup = PopupMenu(context, holder.edit)
            //inflating menu from xml resource
            popup.inflate(R.menu.fakultas_menu)
            val menuprodi = popup.menu.findItem(R.id.menu_fakultas_prodi)
            val menuedit = popup.menu.findItem(R.id.menu_fakultas_edit)
            val menuhapus = popup.menu.findItem(R.id.menu_fakultas_hapus)
            //adding click listener

```

```

        popup.setOnMenuItemClickListener(object :
PopupMenu.OnMenuItemClickListener {
            override fun onMenuItemClick(item: MenuItem): Boolean {
                when (item.itemId) {
                    R.id.menu_fakultas_prodi -> {
                        //handle menu1 click
                        dialog_prodi(list.id.toString())
                        return true
                    }
                    R.id.menu_fakultas_edit -> {
                        //handle menu1 click
                        dialog_fakultas_edit("Edit Fakultas",
list.id.toString(), list.nama.toString())
                        return true
                    }
                    R.id.menu_fakultas_hapus -> {
                        //handle menu1 click
                        Delete(list.id.toString())
                        notifyItemRemoved(position)
                        notifyDataSetChanged()
                        return true
                    }
                }
                else -> return false
            }
        })
        //displaying the popup
        popup.show()
    }
    holder.itemView.setOnClickListener {
    }
}

override fun getItemCount(): Int {
    return List.size
}

inner class ViewHolder internal constructor(view: View) :
RecyclerView.ViewHolder(view) {
    internal var textNama: TextView
    internal var textProdi: TextView
    internal var edit: ImageView

    init {
        textNama = view.findViewById(R.id.textNama)
        textProdi = view.findViewById(R.id.textProdi)
        edit = view.findViewById(R.id.imageedit)
    }
}

```

```

    }

    override fun getFilter(): Filter {
        if (filter == null) {
            filter = CustomFilter(filterList as ArrayList<Fakultas>, this)
        }
        return filter as CustomFilter
    }

    class CustomFilter(internal var filterList: ArrayList<Fakultas>, internal var
adapter: FakultasAdapter) :
        Filter() {

        //FILTERING OCURS
        override fun performFiltering(constraint: CharSequence?): FilterResults {
            var constraint = constraint
            val results = Filter.FilterResults()
            //CHECK CONSTRAINT VALIDITY
            if (constraint != null && constraint.length > 0) {
                //CHANGE TO UPPER
                constraint = constraint.toString().toUpperCase()
                //STORE OUR FILTERED PLAYERS
                val filteredPlayers = ArrayList<Fakultas>()
                for (i in filterList.indices) {
                    //CHECK
                    if (filterList[i].id!!.toUpperCase().contains(constraint) ||
                        filterList[i].nama!!.toUpperCase().contains(constraint)
                    ) {
                        //ADD PLAYER TO FILTERED PLAYERS
                        filteredPlayers.add(filterList[i])
                    }
                }
                results.count = filteredPlayers.size
                results.values = filteredPlayers
            } else {
                results.count = filterList.size
                results.values = filterList
            }
            return results
        }

        override fun publishResults(constraint: CharSequence, results:
FilterResults) {
            adapter.List = results.values as ArrayList<Fakultas>
            //REFRESH
            adapter.notifyDataSetChanged()
        }
    }
}

```

```

        fun dialog_fakultas_edit(title: String, id: String, nama: String) {
            val inflater =
context.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
            val formsView = inflater.inflate(R.layout.dialog_fakultas_prodi_edit, null,
false)

            var inputId: EditText
            var inputNama: EditText
            var btnSimpan: Button

            inputId = formsView.findViewById(R.id.inputId)
            inputNama = formsView.findViewById(R.id.inputNama)
            btnSimpan = formsView.findViewById(R.id.btnSimpan)

            inputId.setText(id)
            inputNama.setText(nama)

            inputId.isEnabled = false

            val builder = AlertDialog.Builder(context)
            val dialog = builder.create()
            dialog.setTitle(title)
            dialog.setView(formsView)
            dialog.show()

            btnSimpan.setOnClickListener {
                //                val data = HashMap<String, Any>()
                data.put("nama", inputNama.text.toString())
                //
                //                Save(inputId.text.toString().toUpperCase(), data)
                //                dialog.dismiss()
                val ids = inputId.text.toString().toUpperCase()
                val namas = inputNama.text.toString()
                val data = HashMap<String, Any>()
                data.put("nama", namas)
                when {
                    ids.trim().isEmpty() -> {
                        Toast.makeText(context, "ID Fakultas tidak boleh
kosong!!!", Toast.LENGTH_LONG).show()
                    }
                    namas.trim().isEmpty() -> {
                        Toast.makeText(context, "Nama Fakultas tidak boleh
kosong!!!", Toast.LENGTH_LONG).show()
                    }
                    else -> {
                        Save(ids, data)
                    }
                }
            }
        }
    }
}

```

```

        dialog.dismiss()
    }
}

fun dialog_prodi(id: String) {
    val inflater =
context.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
    val formsView = inflater.inflate(R.layout.dialog_fakultas_prodi, null, false)

    var btnTambah: Button
    var rv: RecyclerView
    var mAdapterter: FakultasProdiAdapter? = null

    btnTambah = formsView.findViewById(R.id.btnTambah)
    rv = formsView.findViewById(R.id.recycler_view)

    val mLayoutManager = LinearLayoutManager(context)
    rv.layoutManager = mLayoutManager
    rv.itemAnimator = DefaultItemAnimator()
    rv.addItemDecoration(MyDividerItemDecoration(context,
DividerItemDecoration.VERTICAL, 0))

    val builder = AlertDialog.Builder(context)
    val dialog = builder.create()
//    dialog.setTitle(title)
    dialog.setView(formsView)
    dialog.show()

    firestoreDB.collection("fakultas")
        .document(id)
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }

            val prodiList = mutableListOf<FakultasProdi>()
            if (documentSnapshots != null) {
                val doc = documentSnapshots
                if (doc.get("prodi") != null) {
                    val list = doc.get("prodi") as HashMap<String, Any>
                    for (docs in list.toSortedMap()) {
                        val list2 = FakultasProdi("" + doc.id, "" +
docs.key, "" + docs.value)

```



```

        prodiList.add(list2)
    }
}

if (!prodiList.isEmpty())
    mAdapter = FakultasProdiAdapter(prodiList, context,
firestoreDB)
    if (mAdapter != null)
        rv.adapter = mAdapter

})

btnTambah.setOnClickListener {
    dialog_prodi_crud(id)
}

fun dialog_prodi_crud(id:String) {
    val inflater =
context.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
    val formsView = inflater.inflate(R.layout.dialog_fakultas_prodi_edit, null,
false)

    var inputId: EditText
    var inputNama: EditText
    var btnSimpan: Button

    inputId = formsView.findViewById(R.id.inputId)
    inputNama = formsView.findViewById(R.id.inputNama)
    btnSimpan = formsView.findViewById(R.id.btnSimpan)

    val builder = AlertDialog.Builder(context)
    val dialog = builder.create()
    dialog.setTitle("Tambah Program Studi")
    dialog.setView(formsView)
    dialog.show()

    btnSimpan.setOnClickListener {
        val ids = inputId.text.toString().toUpperCase()
        val names = inputNama.text.toString()
        val data1 = HashMap<String, Any>()
        data1.put(ids, names)
        val data2 = HashMap<String, Any>()
        data2.put("prodi", data1)
        when {
            ids.trim().isEmpty() -> {

```

```

        Toast.makeText(context, "ID Program Studi tidak boleh
kosong!!!", Toast.LENGTH_LONG).show()
    }
    names.trim().isEmpty() -> {
        Toast.makeText(context, "Nama Program Studi tidak boleh
kosong!!!", Toast.LENGTH_LONG).show()
    }
    else -> {
        Save(id, data2)
        dialog.dismiss()
    }
}
}
}
}
fun Save(id: String, data: HashMap<String, Any>) {
    firestoreDB.collection("fakultas")
        .document(id)
        .set(data, SetOptions.merge())
}

fun Delete(id: String) {
    firestoreDB.collection("fakultas")
        .document(id)
        .delete()
}
}
}

```

## 6.9 FakultasProdiAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.view.LayoutInflater
import android.view.MenuItem
import android.view.View
import android.view.ViewGroup
import android.widget.*
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.widget.PopupMenu
import androidx.recyclerview.widget.RecyclerView
import com.google.firebase.firestore.FieldValue
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.SetOptions
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.Fakultas
import com.unibba.traceralumni2019.model.FakultasProdi
import com.unibba.traceralumni2019.util.SessionManager
import java.util.*
import kotlin.collections.HashMap

```

```

class FakultasProdiAdapter(
    private var List: MutableList<FakultasProdi>,
    private var context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<FakultasProdiAdapter.ViewHolder>(), Filterable {
    private val TAG = "FakultasProdiAdapter"
    var sessionManager = SessionManager(context)
    var filterList = List
    var filter: CustomFilter? = null

    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
        val view =
LayoutInflater.from(parent.context).inflate(R.layout.dialog_fakultas_prodi_adapter,
parent, false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        val list = List[position]
        holder.textNama.text = list.value
        holder.edit.setOnClickListener {
            //creating a popup menu
            val popup = PopupMenu(context, holder.edit)
            //inflating menu from xml resource
            popup.inflate(R.menu.fakultas_menu)
            val menuprodi = popup.menu.findItem(R.id.menu_fakultas_prodi)
            val menuedit = popup.menu.findItem(R.id.menu_fakultas_edit)
            val menuhapus = popup.menu.findItem(R.id.menu_fakultas_hapus)
            menuprodi.isVisible = false
            //adding click listener
            popup.setOnMenuItemClickListener(object :
PopupMenu.OnMenuItemClickListener {
                override fun onMenuItemClick(item: MenuItem): Boolean {
                    when (item.itemId) {
                        R.id.menu_fakultas_edit -> {
                            //handle menu1 click
                            dialog_edit("Edit Program Studi", list.id.toString(),
list.key.toString(), list.value.toString())
                            return true
                        }
                        R.id.menu_fakultas_hapus -> {
                            //handle menu1 click
                            Delete(list.id.toString(),list.key.toString())
                            notifyItemRemoved(position)
                            notifyDataSetChanged()
                            return true
                        }
                    }
                }
            })
        }
    }
}

```

```

        }
        else -> return false
    }
}

})
//displaying the popup
popup.show()
}
holder.itemView.setOnClickListener {
}
}

override fun getItemCount(): Int {
    return List.size
}

inner class ViewHolder internal constructor(view: View) :
RecyclerView.ViewHolder(view) {
    internal var textNama: TextView
    internal var edit: ImageView

    init {
        textNama = view.findViewById(R.id.textNama)
        edit = view.findViewById(R.id.imageedit)
    }
}

override fun getFilter(): Filter {
    if (filter == null) {
        filter = CustomFilter(filterList as ArrayList<Fakultas>, this)
    }
    return filter as CustomFilter
}

class CustomFilter(internal var filterList: ArrayList<Fakultas>, internal var
adapter: FakultasProdiAdapter) :
    Filter() {

    //FILTERING OCURS
    override fun performFiltering(constraint: CharSequence?): FilterResults {
        var constraint = constraint
        val results = Filter.FilterResults()
        //CHECK CONSTRAINT VALIDITY
        if (constraint != null && constraint.length > 0) {
            //CHANGE TO UPPER
            constraint = constraint.toString().toUpperCase()
            //STORE OUR FILTERED PLAYERS
            val filteredPlayers = ArrayList<Fakultas>()

```

```

        for (i in filterList.indices) {
            //CHECK
            if (filterList[i].id!!.toUpperCase().contains(constraint) ||
                filterList[i].nama!!.toUpperCase().contains(constraint)
            ) {
                //ADD PLAYER TO FILTERED PLAYERS
                filteredPlayers.add(filterList[i])
            }
        }
        results.count = filteredPlayers.size
        results.values = filteredPlayers
    } else {
        results.count = filterList.size
        results.values = filterList
    }
    return results
}

override fun publishResults(constraint: CharSequence, results:
FilterResults) {
    adapter.List = results.values as ArrayList<FakultasProdi>
    //REFRESH
    adapter.notifyDataSetChanged()
}

fun dialog_edit(title: String, ids: String, id: String, nama: String) {
    val inflater =
context.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
    val formsView = inflater.inflate(R.layout.dialog_fakultas_prodi_edit, null,
false)

    var inputId: EditText
    var inputNama: EditText
    var btnSimpan: Button

    inputId = formsView.findViewById(R.id.inputId)
    inputNama = formsView.findViewById(R.id.inputNama)
    btnSimpan = formsView.findViewById(R.id.btnSimpan)

    inputId.setText(id)
    inputNama.setText(nama)

    inputId.isEnabled = false

    val builder = AlertDialog.Builder(context)
    val dialog = builder.create()

```

```

        dialog.setTitle(title)
        dialog.setView(formsView)
        dialog.show()

        btnSimpan.setOnClickListener {
            val data1 = HashMap<String, Any>()
            data1.put(inputId.text.toString(), inputNama.text.toString())
            val data2 = HashMap<String, Any>()
            data2.put("prodi", data1)
            Save(ids, data2)
            dialog.dismiss()
        }
    }

    fun Save(id: String, data: HashMap<String, Any>) {
        firestoreDB.collection("fakultas")
            .document(id)
            .set(data, SetOptions.merge())
    }

    fun Delete(id: String, key: String) {
        val updates = hashMapOf<String, Any>()
        updates["prodi."+key] = FieldValue.delete()
        firestoreDB.collection("fakultas")
            .document(id)
            .update(updates)
    }
}

```

#### 6.10 ForumAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.annotation.SuppressLint
import android.content.Context
import android.content.Intent
import android.util.Log
import android.view.LayoutInflater
import android.view.MenuItem
import android.view.View
import android.view.ViewGroup
import android.widget.*
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.widget.PopupMenu
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.DividerItemDecoration
import androidx.recyclerview.widget.LinearLayoutManager

```

```

import androidx.recyclerview.widget.RecyclerView
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions
import com.google.firebase.Timestamp
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.activity.ForumActivity
import com.unibba.traceralumni2019.model.ChatKontak
import com.unibba.traceralumni2019.model.Forum
import com.unibba.traceralumni2019.util.MyDividerItemDecoration
import com.unibba.traceralumni2019.util.SessionManager
import java.text.SimpleDateFormat

class ForumAdapter(
    private var forumList: MutableList<Forum>,
    private val context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<ForumAdapter.ViewHolder>(), Filterable {
    private val TAG = "ForumAdapter"
    private var firestoreListener: ListenerRegistration? = null
    var sessionManager = SessionManager(context)
    var update = "0"
    val uid = sessionManager.getLogin().get("nim").toString()
    val akses = sessionManager.getLogin().get("akses").toString()
    var filterList = forumList
    var filter: CustomFilter? = null

    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
    ViewHolder {
        val view =
        LayoutInflater.from(parent.context).inflate(R.layout.fragment_info_flp_adapter,
        parent, false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        if (forumList != null) {
            val forum = forumList[position]
            //load like count
            firestoreDB.collection("flp")
                .document(forum.id!!)
                .collection("like")
                .addSnapshotListener(EventListener { documentSnapshots, e ->
                    if (e != null) {
                        Log.e(TAG, "Listen failed!", e)
                        pbLoading.visibility = View.GONE
                    }
                })
        }
    }
}

```

```

        return@EventListener
    }
    val count = documentSnapshots?.size()
    holder.textlike.text = "" + count + " Suka"
    holder.textlainnya.text = "Lihat " + count + " Menyukai ini"
    })
//load comment count
firestoreDB.collection("flp")
    .document(forum.id!!)
    .collection("comment")
    .addSnapshotListener(EventListener { documentSnapshots, e ->
        if (e != null) {
            Log.e(TAG, "Listen failed!", e)
            pbLoading.visibility = View.GONE
            return@EventListener
        }
        val count = documentSnapshots?.size()
        holder.textcomment.text = "" + count + " Komentar"
    })

firestoreDB.collection("alumni")
    .document(forum.uid!!)
    .addSnapshotListener(EventListener { documentSnapshots, e ->
        if (e != null) {
            Log.e(TAG, "Listen failed!", e)
            pbLoading.visibility = View.GONE
            return@EventListener
        }
        if (documentSnapshots != null) {
            val document = documentSnapshots.data
            if (document?.get("image_url") != null)
                forum.uimage_url =
document.get("image_url").toString()
            if (document?.get("nama") != null) {
                forum.uname = document.get("nama").toString()
            } else {
                forum.uname = ""
            }
        }
    })

Glide.with(context).load(forum.uimage_url)
    .apply(
        RequestOptions()
            .circleCrop()
            .centerCrop()
            .error(R.drawable.ic_user)
            .placeholder(R.drawable.ic_user)
    )

```



```

        .apply(RequestOptions.circleCropTransform())
        .into(holder.thumbnail)
        holder.textnama.text = forum.uid + "\r\n" + forum.uname
    })
    Glide.with(context)
        .load(forum.image_url)
        .into(holder.imageView)
    holder.textjudul.text = forum.judul
    holder.textdeskripsi.text = forum.deskripsi
    holder.texttanggal.text = forum.dates
    holder.like.setOnClickListener {
        like(forum.id!!)
    }
    holder.textlike.setOnClickListener {
        like(forum.id!!)
    }
    holder.edit.visibility = View.VISIBLE
    if (!forum.uid.equals(uid))
        if (akses.equals("0"))
            holder.edit.visibility = View.INVISIBLE
    holder.edit.setOnClickListener {
        //creating a popup menu
        val popup = PopupMenu(context, holder.edit)
        //inflating menu from xml resource
        popup.inflate(R.menu.forum_menu)
        val menuedit = popup.menu.findItem(R.id.menu_forum_edit)
        val menuhapus = popup.menu.findItem(R.id.menu_forum_hapus)
        if (!forum.uid.equals(uid) && akses.equals("1")) {
            menuedit.isVisible = false
            menuhapus.isVisible = true
        } else if (forum.uid.equals(uid) && akses.equals("1")) {
            menuedit.isVisible = true
            menuhapus.isVisible = true
        } else if (forum.uid.equals(uid)) {
            menuedit.isVisible = true
            menuhapus.isVisible = true
        } else {
            menuedit.isVisible = false
            menuhapus.isVisible = false
        }
    }
    //adding click listener
    popup.setOnMenuItemClickListener(object :
PopupMenu.OnMenuItemClickListener {
        override fun onMenuItemClick(item: MenuItem): Boolean {
            when (item.itemId) {
                R.id.menu_forum_edit -> {
                    //handle menu1 click
                    update = "1"
                }
            }
        }
    })

```

```

                update(forum)
                return true
            }
            R.id.menu_forum_hapus -> {
                //handle menu1 click
                delete(forum.id!!, position)
                return true
            }
            else -> return false
        }
    }
})
//displaying the popup
popup.show()
}

holder.textlainnya.setOnClickListener {
    dialog_lainnya(forum.id!!)
}

holder.itemView.setOnClickListener {
    update = "0"
    update(forum)
}
// holder.delete.setOnClickListener { deleteNote(forum.id!!, position) }
}

override fun getItemCount(): Int {
    return forumList.size
}

inner class ViewHolder internal constructor(view: View) :
RecyclerView.ViewHolder(view) {
    internal var textjudul: TextView
    internal var textdeskripsi: TextView
    internal var imageView: ImageView
    internal var edit: ImageView
    internal var like: ImageView
    internal var comment: ImageView
    internal var textlike: TextView
    internal var textcomment: TextView
    internal var textlainnya: TextView
    internal var thumbnail: ImageView
    internal var textnama: TextView
    internal var texttanggal: TextView

    init {

```

```

        textjudul = view.findViewById(R.id.textJudul)
        textdeskripsi = view.findViewById(R.id.textDeskripsi)
        edit = view.findViewById(R.id.imageedit)
        imageView = view.findViewById(R.id.imageView)
        like = view.findViewById(R.id.imagelike)
        comment = view.findViewById(R.id.imagecomment)
        textlike = view.findViewById(R.id.textLike)
        textcomment = view.findViewById(R.id.textKomentar)
        textlainnya = view.findViewById(R.id.textLainnya)
        thumbnail = view.findViewById(R.id.thumbnail)
        textnama = view.findViewById(R.id.textnama)
        texttanggal = view.findViewById(R.id.texttanggal)
    }
}

fun dialog_lainnya(id: String) {
    val inflater =
context.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
    val formsView = inflater.inflate(R.layout.dialog_lainnya, null, false)
    var mAdapter: ChatKontakAdapter? = null
    var List = mutableListOf<ChatKontak>()
    var rv: RecyclerView
    rv = formsView.findViewById(R.id.recycler_view)
    rv.layoutManager = LinearLayoutManager(context)
    rv.itemAnimator = DefaultItemAnimator()
    rv.addItemDecoration(MyDividerItemDecoration(context,
DividerItemDecoration.VERTICAL, 36))
    var count = 0
    firestoreDB.collection("flp")
        .document(id)
        .collection("like")
        .get()
        .addOnSuccessListener { documentSnapshots1 ->
            if (documentSnapshots1 != null) {
                count = documentSnapshots1.size()
                for (doc in documentSnapshots1) {
                    firestoreDB.collection("users")
                        .document(doc.id)
                        .get()
                        .addOnSuccessListener { documentSnapshots2 ->
                            if (documentSnapshots2 != null) {
                                val document =
documentSnapshots2.data

                                var ids = ""
                                var nim = ""
                                var nama = ""
                                var image_rul = ""

```

```
document.get("id").toString()
```

```
document.get("nim").toString()
```

```
document.get("nama").toString()  
null)
```

```
document.get("image_rul").toString()
```

```
document.get("tentang").toString()
```

```
document.get("token").toString()
```

```
document.get("akses").toString().toInt()
```

```
SimpleDateFormat("dd/MM/yy hh:mm")
```

```
doc.get("last_seen") as Timestamp
```

```
last_seens.toDate()
```

```
sdf.format(datelast_seens)
```

```
var tentang = ""  
var token = ""  
var akses = 0  
var last_seen = ""  
if (document != null) {  
    if (document.get("id") != null)  
        ids =  
  
        if (document.get("nim") != null)  
            nim =  
  
            if (document.get("nama") != null)  
                nama =  
  
                if (document.get("image_rul") !=  
  
                    image_rul =  
  
                    if (document.get("tentang") != null)  
                        tentang =  
  
                        if (document.get("token") != null)  
                            token =  
  
                            if (document.get("akses") != null)  
                                akses =  
  
                                val sdf =  
  
                                if (doc.get("last_seen") != null) {  
                                    val last_seens =  
  
                                    val datelast_seens =  
  
                                    last_seen =  
  
                                }  
                            }  
                    val list = ChatKontak(  
                        "" + ids,  
                        "" + image_rul,  
                        "" + nim,  
                        "" + nama,  
                        "" + tentang,  
                        "" + token,  
                        0 + akses,  
                        "" + last_seen  
                    )  
                }
```

```

List.add(list)
System.out.println("List=>add=>" + list)
System.out.println("List=>size=>" +
List.size)
System.out.println("List=>size=>" +
List.size)
if (!List.isNullOrEmpty())
    mAdapter =
ChatKontakAdapter(List, context, firestoreDB)
    if (mAdapter != null)
        rv.adapter = mAdapter
    }
}
}
}
val builder = AlertDialog.Builder(context)
builder.setTitle("" + count + " Menyukai ini")
builder.setView(formsView)
builder.setCancelable(false)
builder.setPositiveButton("Kembali", { dialog, which ->
    dialog.cancel()
})
builder.show()
}
}

@SuppressLint("NewApi")
private fun update(forum: Forum) {
    val intent = Intent(context, ForumActivity::class.java)
    intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
    intent.putExtra("kategori", forum.kategori)
    intent.putExtra("create", "0")
    intent.putExtra("id", forum.id)
    intent.putExtra("image_url", forum.image_url)
    intent.putExtra("judul", forum.judul)
    intent.putExtra("deskripsi", forum.deskripsi)
    intent.putExtra("date", forum.dates)
    intent.putExtra("expired", forum.exps)
    intent.putExtra("uid", forum.uid)
    intent.putExtra("update", update)
    context.startActivity(intent)
}

private fun delete(id: String, position: Int) {
    firestoreDB.collection("flp")
        .document(id)
        .collection("like")

```

```

        .get()
        .addOnCompleteListener { task ->
            if (task.isSuccessful) {
                for (doc in task.result!!) {
                    doc.reference.delete()
                }
            }
        }
    }

    firestoreDB.collection("flp")
        .document(id)
        .collection("comment")
        .get()
        .addOnCompleteListener { task ->
            if (task.isSuccessful) {
                for (doc in task.result!!) {
                    doc.reference.delete()
                }
            }
        }
    }

    firestoreDB.collection("flp")
        .document(id)
        .delete()
        .addOnCompleteListener {
            forumList.removeAt(position)
            notifyItemRemoved(position)
            notifyItemRangeChanged(position, forumList.size)
            Toast.makeText(context, "Berhasil dihapus...",
Toast.LENGTH_SHORT).show()
        }
    }

    private fun like(id: String) {
        val uid = sessionManager.getLogin().get("nim").toString()
        val likes = HashMap<String, Any>()
        likes.put("uid", uid)

        firestoreDB.collection("flp")
            .document(id)
            .collection("like")
            .document(uid)
            .get()
            .addOnSuccessListener { task ->
                if (task.exists()) {
                    firestoreDB.collection("flp")
                        .document(id)
                        .collection("like")

```

```

        .document(uid)
        .delete()
        .addOnCompleteListener {}
    } else {
        firestoreDB.collection("flp")
            .document(id)
            .collection("like")
            .document(uid)
            .set(likes)
            .addOnCompleteListener {}
    }
}.addOnFailureListener {
    //gagal
    Toast.makeText(
        context,
        "Gagal koneksi ke server,\nSilahkan cek koneksi dan coba
lagi...",
        Toast.LENGTH_SHORT
    ).show()
}

}

override fun getFilter(): Filter {
    if (filter == null) {
        filter = CustomFilter(filterList as ArrayList<Forum>, this)
    }
    return filter as CustomFilter
}

class CustomFilter(internal var filterList: ArrayList<Forum>, internal var
adapter: ForumAdapter) : Filter() {

    //FILTERING OCURS
    override fun performFiltering(constraint: CharSequence?): FilterResults {
        var constraint = constraint
        val results = Filter.FilterResults()
        //CHECK CONSTRAINT VALIDITY
        if (constraint != null && constraint.length > 0) {
            //CHANGE TO UPPER
            constraint = constraint.toString().toUpperCase()
            System.out.println("constraint=>" + constraint)
            //STORE OUR FILTERED PLAYERS
            val filteredPlayers = ArrayList<Forum>()

            for (i in filterList.indices) {
                //CHECK
                if (filterList[i].judul!!.toUpperCase().contains(constraint) ||
                    filterList[i].dates!!.toUpperCase().contains(constraint) ||

```

```

filterList[i].uid!!.toUpperCase().contains(constraint) ||
filterList[i].deskripsi!!.toUpperCase().contains(constraint)
        ) {
            //ADD PLAYER TO FILTERED PLAYERS
            filteredPlayers.add(filterList[i])
        }
    }
    results.count = filteredPlayers.size
    results.values = filteredPlayers
} else {
    results.count = filterList.size
    results.values = filterList
}

return results
}

override fun publishResults(constraint: CharSequence, results:
FilterResults) {
    adapter.forumList = results.values as ArrayList<Forum>
    //REFRESH
    adapter.notifyDataSetChanged()
}
}
}

```

### 6.11 ForumKomentarAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.util.Log
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.ImageView
import android.widget.TextView
import androidx.recyclerview.widget.RecyclerView
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.ForumKomentar
import com.unibba.traceralumni2019.util.SessionManager
import com.vanniktech.emoji.EmojiTextView

class ForumKomentarAdapter(

```



```

private val komentarList: MutableList<ForumKomentar>,
private val context: Context,
private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<ForumKomentarAdapter.ViewHolder>() {
    private val TAG = "ForumKomentarAdapter"
    var sessionManager = SessionManager(context)

    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
        val view =
LayoutInflater.from(parent.context).inflate(R.layout.fragment_info_flp_adapter_kom
entar, parent, false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        val list = komentarList[position]
        if (list.uid != null) {
            firestoreDB.collection("users")
                .document(list.uid!!)
                .addSnapshotListener(EventListener { documentSnapshots, e ->
                    if (e != null) {
                        Log.e(TAG, "Listen failed!", e)
                        pbLoading.visibility = View.GONE
                        return@EventListener
                    }
                    if (documentSnapshots != null) {
                        val document = documentSnapshots.data
                        if (document?.get("image_url") != null)
                            list.image_url =
document.get("image_url").toString()

                        if (document?.get("nama") != null) {
                            list.nama = document.get("nama").toString()
                        } else {
                            list.nama = ""
                        }
                    }
                })
            Glide.with(context).load(list.image_url)
                .apply(
                    RequestOptions()
                        .circleCrop()
                        .centerCrop()
                        .error(R.drawable.ic_user)
                        .placeholder(R.drawable.ic_user)
                )
                .apply(RequestOptions.circleCropTransform())
                .into(holder.imageView)

```

```

                holder.tvnama.text = "[" + list.uid + "]" + list.nama
                holder.tvtanggal.text = list.dates
                holder.tvkomentar.text = list.komentar
            })
        }
        holder.itemView.setOnClickListener {
            //itemview
        }
    }

    override fun getItemCount(): Int {
        return komentarList.size
    }

    inner class ViewHolder internal constructor(view: View) :
RecyclerView.ViewHolder(view) {
        internal var imageView: ImageView
        internal var tvnama: TextView
        internal var tvtanggal: TextView
        internal var tvkomentar: EmojiTextView

        init {
            imageView = view.findViewById(R.id.thumbnail)
            tvnama = view.findViewById(R.id.tvnama)
            tvtanggal = view.findViewById(R.id.tvtanggal)
            tvkomentar = view.findViewById(R.id.tvkomentar)
        }
    }
}

```

#### 6.12 ListAlumniAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.content.Intent
import android.text.TextUtils
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.Filter
import android.widget.Filterable
import android.widget.ImageView
import android.widget.TextView
import androidx.recyclerview.widget.RecyclerView
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions
import com.google.firebase.firestore.FirebaseFirestore
import com.unibba.traceralumni2019.R

```

```

import com.unibba.traceralumni2019.activity.ProfilActivity
import com.unibba.traceralumni2019.model.ListAlumni
import com.unibba.traceralumni2019.util.SessionManager
import java.util.*

class ListAlumniAdapter(
    private var alumniList: MutableList<ListAlumni>,
    private var context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<ListAlumniAdapter.ViewHolder>(), Filterable {
    private val TAG = "ListAlumniAdapter"
    var sessionManager = SessionManager(context)
    var filterList = alumniList
    var filter: CustomFilter? = null

    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
        val view =
LayoutInflater.from(parent.context).inflate(R.layout.activity_list_alumni_adapter,
parent, false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        val list = alumniList[position]
        var tnt = "Hai, saya baru saja bergabung di tracer alumni unibba"
        Glide.with(context).load(list.image_url)
            .apply(
                RequestOptions()
                    .circleCrop()
                    .centerCrop()
                    .error(R.drawable.ic_user)
                    .placeholder(R.drawable.ic_user)
            )
            .apply(RequestOptions.circleCropTransform())
            .into(holder.imageView)
        holder.textNama.text = "[" + list.nim + "] " + list.nama
        if (!TextUtils.isEmpty(list.tentang))
            tnt = list.tentang!!
        holder.textTentang.text = tnt

        holder.itemView.setOnClickListener {
            val intent = Intent(context, ProfilActivity::class.java)
            intent.putExtra("nim", list.nim)
            intent.putExtra("nama", list.nama)
            intent.putExtra("image_url", list.image_url)
            intent.putExtra("angkatan", list.angkatan)
            intent.putExtra("prodi", list.prodi)
        }
    }
}

```

```

        intent.putExtra("fakultas", list.fakultas)
        intent.putExtra("last_seen", list.last_seen)
        intent.putExtra("tentang", list.tentang)
        intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
        context.startActivity(intent)
    }
}

override fun getItemCount(): Int {
    return alumniList.size
}

inner class ViewHolder internal constructor(view: View) :
RecyclerView.ViewHolder(view) {
    internal var imageView: ImageView
    internal var textNama: TextView
    internal var textTentang: TextView

    init {
        imageView = view.findViewById(R.id.imageView)
        textNama = view.findViewById(R.id.textNama)
        textTentang = view.findViewById(R.id.textTentang)
    }
}

override fun getFilter(): Filter {
    if (filter == null) {
        filter = CustomFilter(filterList as ArrayList<ListAlumni>, this)
    }
    return filter as CustomFilter
}

class CustomFilter(internal var filterList: ArrayList<ListAlumni>, internal var
adapter: ListAlumniAdapter) :
    Filter() {

    //FILTERING OCURS
    override fun performFiltering(constraint: CharSequence?): FilterResults {
        var constraint = constraint
        val results = Filter.FilterResults()
        //CHECK CONSTRAINT VALIDITY
        if (constraint != null && constraint.length > 0) {
            //CHANGE TO UPPER
            constraint = constraint.toString().toUpperCase()
            //STORE OUR FILTERED PLAYERS
            val filteredPlayers = ArrayList<ListAlumni>()
            for (i in filterList.indices) {
                //CHECK

```

```

        if (filterList[i].id!!.toUpperCase().contains(constraint) ||
            filterList[i].nama!!.toUpperCase().contains(constraint)
        ) {
            //ADD PLAYER TO FILTERED PLAYERS
            filteredPlayers.add(filterList[i])
        }
    }
    results.count = filteredPlayers.size
    results.values = filteredPlayers
} else {
    results.count = filterList.size
    results.values = filterList
}
return results
}

override fun publishResults(constraint: CharSequence, results:
FilterResults) {
    adapter.alumniList = results.values as ArrayList<ListAlumni>
    //REFRESH
    adapter.notifyDataSetChanged()
}
}
}

```

### 6.13 LokerAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.annotation.SuppressLint
import android.content.Context
import android.content.Intent
import android.util.Log
import android.view.LayoutInflater
import android.view.MenuItem
import android.view.View
import android.view.ViewGroup
import android.widget.*
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.widget.PopupMenu
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.DividerItemDecoration
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions
import com.google.firebase.Timestamp
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore

```

```

import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.activity.ForumActivity
import com.unibba.traceralumni2019.model.ChatKontak
import com.unibba.traceralumni2019.model.Forum
import com.unibba.traceralumni2019.util.MyDividerItemDecoration
import com.unibba.traceralumni2019.util.SessionManager
import java.text.SimpleDateFormat

class LokerAdapter(
    private var forumList: MutableList<Forum>,
    private val context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<LokerAdapter.ViewHolder>(), Filterable {
    private val TAG = "LokerAdapter"
    private var firestoreListener: ListenerRegistration? = null
    var sessionManager = SessionManager(context)
    var update = "0"
    val uid = sessionManager.getLogin().get("nim").toString()
    val akses = sessionManager.getLogin().get("akses").toString()
    var filterList = forumList
    var filter: CustomFilter? = null
    private var mAdapterter: ListAlumniAdapter? = null

    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
    ViewHolder {
        val view =
        LayoutInflater.from(parent.context).inflate(R.layout.fragment_info_flp_adapter,
        parent, false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        if (forumList != null) {
            val forum = forumList[position]
            //load like count
            firestoreDB.collection("flp")
                .document(forum.id!!)
                .collection("like")
                .addSnapshotListener(EventListener { documentSnapshots, e ->
                    if (e != null) {
                        Log.e(TAG, "Listen failed!", e)
                        pbLoading.visibility = View.GONE
                        return@EventListener
                    }
                    val count = documentSnapshots?.size()
                    holder.textlike.text = "" + count + " Suka"
                    holder.textlainnya.text = "Lihat " + count + " Menyukai ini"
                })
        }
    }

```

```

    })
    //load comment count
    firestoreDB.collection("flp")
        .document(forum.id!!)
        .collection("comment")
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }
            val count = documentSnapshots?.size()
            holder.textcomment.text = "" + count + " Komentar"
        })

    firestoreDB.collection("alumni")
        .document(forum.uid!!)
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }
            if (documentSnapshots != null) {
                val document = documentSnapshots.data
                if (document?.get("image_url") != null)
                    forum.uimage_url =
document.get("image_url").toString()
                if (document?.get("nama") != null) {
                    forum.uname = document.get("nama").toString()
                } else {
                    forum.uname = ""
                }
            }
        })

    Glide.with(context).load(forum.uimage_url)
        .apply(
            RequestOptions()
                .circleCrop()
                .centerCrop()
                .error(R.drawable.ic_user)
                .placeholder(R.drawable.ic_user)
        )
        .apply(RequestOptions.circleCropTransform())
        .into(holder.thumbnail)
    holder.textnama.text = forum.uid + "\r\n" + forum.uname
    })
    Glide.with(context)

```

```

        .load(forum.image_url)
        .into(holder.imageView)
holder.textjudul.text = forum.judul
holder.textdeskripsi.text = forum.deskripsi
holder.texttanggal.text = forum.dates
holder.like.setOnClickListener {
    like(forum.id!!)
}
holder.textlike.setOnClickListener {
    like(forum.id!!)
}
holder.edit.visibility = View.VISIBLE
if (!forum.uid.equals(uid))
    if (akses.equals("0"))
        holder.edit.visibility = View.INVISIBLE
holder.edit.setOnClickListener {
    //creating a popup menu
    val popup = PopupMenu(context, holder.edit)
    //inflating menu from xml resource
    popup.inflate(R.menu.forum_menu)
    val menuedit = popup.menu.findItem(R.id.menu_forum_edit)
    val menuhapus = popup.menu.findItem(R.id.menu_forum_hapus)
    if (!forum.uid.equals(uid) && akses.equals("1")) {
        menuedit.isVisible = false
        menuhapus.isVisible = true
    } else if (forum.uid.equals(uid) && akses.equals("1")) {
        menuedit.isVisible = true
        menuhapus.isVisible = true
    } else if (forum.uid.equals(uid)) {
        menuedit.isVisible = true
        menuhapus.isVisible = true
    } else {
        menuedit.isVisible = false
        menuhapus.isVisible = false
    }
    //adding click listener
    popup.setOnMenuItemClickListener(object :
PopupMenu.OnMenuItemClickListener {
        override fun onMenuItemClick(item: MenuItem): Boolean {
            when (item.itemId) {
                R.id.menu_forum_edit -> {
                    //handle menu1 click
                    update = "1"
                    update(forum)
                    return true
                }
                R.id.menu_forum_hapus -> {
                    //handle menu1 click

```



```

                delete(forum.id!!, position)
                return true
            }
            else -> return false
        }
    }
})
//displaying the popup
popup.show()
}

holder.textlainnya.setOnClickListener {
    dialog_lainnya(forum.id!!)
}

holder.itemView.setOnClickListener {
    update = "0"
    update(forum)
}
// holder.delete.setOnClickListener { deleteNote(forum.id!!, position) }
}

override fun getItemCount(): Int {
    return forumList.size
}

inner class ViewHolder internal constructor(view: View) :
RecyclerView.ViewHolder(view) {
    internal var textjudul: TextView
    internal var textdeskripsi: TextView
    internal var imageView: ImageView
    internal var edit: ImageView
    internal var like: ImageView
    internal var comment: ImageView
    internal var textlike: TextView
    internal var textcomment: TextView
    internal var textlainnya: TextView
    internal var thumbnail: ImageView
    internal var textnama: TextView
    internal var texttanggal: TextView

    init {
        textjudul = view.findViewById(R.id.textJudul)
        textdeskripsi = view.findViewById(R.id.textDeskripsi)
        edit = view.findViewById(R.id.imageedit)
        imageView = view.findViewById(R.id.imageView)
        like = view.findViewById(R.id.imagelike)
    }
}

```



```
document.get("id").toString()
```

```
document.get("nim").toString()
```

```
document.get("nama").toString()  
null)
```

```
document.get("image_rul").toString()
```

```
document.get("tentang").toString()
```

```
document.get("token").toString()
```

```
document.get("akses").toString().toInt()
```

```
SimpleDateFormat("dd/MM/yy hh:mm")
```

```
doc.get("last_seen") as Timestamp
```

```
last_seens.toDate()
```

```
sdf.format(datelast_seens)
```

```
List.size)
```

```
if (document.get("id") != null)  
    ids =
```

```
if (document.get("nim") != null)  
    nim =
```

```
if (document.get("nama") != null)  
    nama =
```

```
if (document.get("image_rul") !=  
  
    image_rul =
```

```
if (document.get("tentang") != null)  
    tentang =
```

```
if (document.get("token") != null)  
    token =
```

```
if (document.get("akses") != null)  
    akses =
```

```
val sdf =
```

```
if (doc.get("last_seen") != null) {  
    val last_seens =
```

```
        val datelast_seens =
```

```
        last_seen =
```

```
    }
```

```
}
```

```
val list = ChatKontak(  
    "" + ids,
```

```
    "" + image_rul,
```

```
    "" + nim,
```

```
    "" + nama,
```

```
    "" + tentang,
```

```
    "" + token,
```

```
    0 + akses,
```

```
    "" + last_seen
```

```
)
```

```
List.add(list)
```

```
System.out.println("List=>add=>" + list)
```

```
System.out.println("List=>size=>" +
```

```
System.out.println("List=>size=>" +
```

```

List.size)

                                if (!List.isNullOrEmpty())
                                    mAdapter =
ChatKontakAdapter(List, context, firestoreDB)
                                if (mAdapter != null)
                                    rv.adapter = mAdapter
                                }
                            }
                        }
                    }
                val builder = AlertDialog.Builder(context)
                builder.setTitle("" + count + " Menyukai ini")
                builder.setView(formsView)
                builder.setCancelable(false)
                builder.setPositiveButton("Kembali", { dialog, which ->
                    dialog.cancel()
                })
                builder.show()
            }
        }

    @SuppressWarnings("NewApi")
    private fun update(forum: Forum) {
        val intent = Intent(context, ForumActivity::class.java)
        intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
        intent.putExtra("kategori", forum.kategori)
        intent.putExtra("create", "0")
        intent.putExtra("id", forum.id)
        intent.putExtra("image_url", forum.image_url)
        intent.putExtra("judul", forum.judul)
        intent.putExtra("deskripsi", forum.deskripsi)
        intent.putExtra("date", forum.dates)
        intent.putExtra("expired", forum.exps)
        intent.putExtra("uid", forum.uid)
        intent.putExtra("update", update)
        context.startActivity(intent)
    }

    private fun delete(id: String, position: Int) {

        firestoreDB.collection("flp")
            .document(id)
            .collection("like")
            .get()
            .addOnCompleteListener { task ->
                if (task.isSuccessful) {
                    for (doc in task.result!!) {
                        doc.reference.delete()
                    }
                }
            }
    }

```

```

        }
    }
}

firestoreDB.collection("flp")
    .document(id)
    .collection("comment")
    .get()
    .addOnCompleteListener { task ->
        if (task.isSuccessful) {
            for (doc in task.result!!) {
                doc.reference.delete()
            }
        }
    }
}

firestoreDB.collection("flp")
    .document(id)
    .delete()
    .addOnCompleteListener {
        forumList.removeAt(position)
        notifyItemRemoved(position)
        notifyItemRangeChanged(position, forumList.size)
        Toast.makeText(context, "Berhasil dihapus...",
Toast.LENGTH_SHORT).show()
    }
}

private fun like(id: String) {
    val uid = sessionManager.getLogin().get("nim").toString()
    val likes = HashMap<String, Any>()
    likes.put("uid", uid)

    firestoreDB.collection("flp")
        .document(id)
        .collection("like")
        .document(uid)
        .get()
        .addOnSuccessListener { task ->
            if (task.exists()) {
                firestoreDB.collection("flp")
                    .document(id)
                    .collection("like")
                    .document(uid)
                    .delete()
                    .addOnCompleteListener {}
            } else {
                firestoreDB.collection("flp")

```

```

        .document(id)
        .collection("like")
        .document(uid)
        .set(likes)
        .addOnCompleteListener {}
    }
    }.addOnFailureListener {
        //gagal
        Toast.makeText(
            context,
            "Gagal koneksi ke server,\nSilahkan cek koneksi dan coba
lagi...",
            Toast.LENGTH_SHORT
        ).show()
    }
}

override fun getFilter(): Filter {
    if (filter == null) {
        filter = CustomFilter(filterList as ArrayList<Forum>, this)
    }
    return filter as CustomFilter
}

class CustomFilter(internal var filterList: ArrayList<Forum>, internal var
adapter: LokerAdapter) : Filter() {

    //FILTERING OCURS
    override fun performFiltering(constraint: CharSequence?): FilterResults {
        var constraint = constraint
        val results = Filter.FilterResults()
        //CHECK CONSTRAINT VALIDITY
        if (constraint != null && constraint.length > 0) {
            //CHANGE TO UPPER
            constraint = constraint.toString().toUpperCase()
            System.out.println("constraint=>" + constraint)
            //STORE OUR FILTERED PLAYERS
            val filteredPlayers = ArrayList<Forum>()
            for (i in filterList.indices) {
                //CHECK
                if (filterList[i].judul!!.toUpperCase().contains(constraint) ||
                    filterList[i].dates!!.toUpperCase().contains(constraint) ||
                    filterList[i].uid!!.toUpperCase().contains(constraint) ||
                    filterList[i].deskripsi!!.toUpperCase().contains(constraint)
                ) {
                    //ADD PLAYER TO FILTERED PLAYERS
                    filteredPlayers.add(filterList[i])
                }
            }
        }
    }
}

```

```

        }
    }
    results.count = filteredPlayers.size
    results.values = filteredPlayers
} else {
    results.count = filterList.size
    results.values = filterList
}
return results
}

override fun publishResults(constraint: CharSequence, results:
FilterResults) {
    adapter.forumList = results.values as ArrayList<Forum>
    //REFRESH
    adapter.notifyDataSetChanged()
}
}
}

```

#### 6.14 MenuListViewAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.view.Gravity
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.ArrayAdapter
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.MenuListView
import kotlinx.android.synthetic.main.fragment_profil_item.view.*

class MenuListViewAdapter(context: Context, contacts: List<MenuListView>)
    : ArrayAdapter<MenuListView>(context, 0, contacts) {

    override fun getView(position: Int, convertView: View?, parent: ViewGroup?):
    View {
        val rootView = convertView ?:
        LayoutInflater.from(context).inflate(R.layout.fragment_profil_item, parent, false)
        val currentContact = getItem(position)
        // rootView.labelMenu.textColors = R.color.white
        if (currentContact.image == 0){
            rootView.imageView.visibility = View.GONE
        }else{
            rootView.imageView.setImageResource(currentContact.image)
        }
        if (currentContact.labelmenu.equals("")) {

```

```

        rootView.labelMenu.visibility = View.GONE
    }else{
        rootView.labelMenu.text = currentContact.labelmenu
        rootView.labelMenu.gravity = Gravity.CENTER_VERTICAL
    }
    rootView.labelSubmenu.text = currentContact.labelsubmenu

    return rootView
}
}

```

#### 6.15 PengumumanAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.annotation.SuppressLint
import android.content.Context
import android.content.Intent
import android.util.Log
import android.view.LayoutInflater
import android.view.MenuItem
import android.view.View
import android.view.ViewGroup
import android.widget.*
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.widget.PopupMenu
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.DividerItemDecoration
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions
import com.google.firebase.Timestamp
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.activity.ForumActivity
import com.unibba.traceralumni2019.model.ChatKontak
import com.unibba.traceralumni2019.model.Forum
import com.unibba.traceralumni2019.util.MyDividerItemDecoration
import com.unibba.traceralumni2019.util.SessionManager
import java.text.SimpleDateFormat

class PengumumanAdapter(
    private var forumList: MutableList<Forum>,
    private val context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<PengumumanAdapter.ViewHolder>(), Filterable {

```



```

private val TAG = "PengumumanAdapter"
var sessionManager = SessionManager(context)
var update = "0"
val uid = sessionManager.getLogin().get("nim").toString()
val akses = sessionManager.getLogin().get("akses").toString()
var filterList = forumList
var filter: CustomFilter? = null
private var mAdapterter: ListAlumniAdapter? = null

override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
    val view =
LayoutInflater.from(parent.context).inflate(R.layout.fragment_info_flp_adapter,
parent, false)
    return ViewHolder(view)
}

override fun onBindViewHolder(holder: ViewHolder, position: Int) {
    if (forumList != null) {
        val forum = forumList[position]
        //load like count
        firestoreDB.collection("flp")
            .document(forum.id!!)
            .collection("like")
            .addSnapshotListener(EventListener { documentSnapshots, e ->
                if (e != null) {
                    Log.e(TAG, "Listen failed!", e)
                    pbLoading.visibility = View.GONE
                    return@EventListener
                }
                val count = documentSnapshots?.size()
                holder.textlike.text = "" + count + " Suka"
                holder.textlainnya.text = "Lihat " + count + " Menyukai ini"
            })
        //load comment count
        firestoreDB.collection("flp")
            .document(forum.id!!)
            .collection("comment")
            .addSnapshotListener(EventListener { documentSnapshots, e ->
                if (e != null) {
                    Log.e(TAG, "Listen failed!", e)
                    pbLoading.visibility = View.GONE
                    return@EventListener
                }
                val count = documentSnapshots?.size()
                holder.textcomment.text = "" + count + " Komentar"
            })
    }
}

```

```

        firestoreDB.collection("alumni")
            .document(forum.uid!!)
            .addSnapshotListener(EventListener { documentSnapshots, e ->
                if (e != null) {
                    Log.e(TAG, "Listen failed!", e)
                    pbLoading.visibility = View.GONE
                    return@EventListener
                }
                if (documentSnapshots != null) {
                    val document = documentSnapshots.data
                    if (document?.get("image_url") != null)
                        forum.uimage_url =
document.get("image_url").toString()
                    if (document?.get("nama") != null) {
                        forum.uname = document.get("nama").toString()
                    } else {
                        forum.uname = ""
                    }
                }
                Glide.with(context).load(forum.uimage_url)
                    .apply(
                        RequestOptions()
                            .circleCrop()
                            .centerCrop()
                            .error(R.drawable.ic_user)
                            .placeholder(R.drawable.ic_user)
                    )
                    .apply(RequestOptions.circleCropTransform())
                    .into(holder.thumbnail)
                holder.textnama.text = forum.uid + "\r\n" + forum.uname
            })
        Glide.with(context)
            .load(forum.image_url)
            .into(holder.imageView)
        holder.textjudul.text = forum.judul
        holder.textdeskripsi.text = forum.deskripsi
        holder.texttanggal.text = forum.dates
        holder.like.setOnClickListener {
            like(forum.id!!)
        }
        holder.textlike.setOnClickListener {
            like(forum.id!!)
        }
        holder.edit.visibility = View.VISIBLE
        if (!forum.uid.equals(uid))
            if (akses.equals("0"))
                holder.edit.visibility = View.INVISIBLE

```

```

holder.edit.setOnClickListener {
    //creating a popup menu
    val popup = PopupMenu(context, holder.edit)
    //inflating menu from xml resource
    popup.inflate(R.menu.forum_menu)
    val menuedit = popup.menu.findItem(R.id.menu_forum_edit)
    val menuhapus = popup.menu.findItem(R.id.menu_forum_hapus)
    if (!forum.uid.equals(uid) && akses.equals("1")) {
        menuedit.isVisible = false
        menuhapus.isVisible = true
    } else if (forum.uid.equals(uid) && akses.equals("1")) {
        menuedit.isVisible = true
        menuhapus.isVisible = true
    } else if (forum.uid.equals(uid)) {
        menuedit.isVisible = true
        menuhapus.isVisible = true
    } else {
        menuedit.isVisible = false
        menuhapus.isVisible = false
    }
    //adding click listener
    popup.setOnMenuItemClickListener(object :
PopupMenu.OnMenuItemClickListener {
        override fun onMenuItemClick(item: MenuItem): Boolean {
            when (item.itemId) {
                R.id.menu_forum_edit -> {
                    //handle menu1 click
                    update = "1"
                    update(forum)
                    return true
                }
                R.id.menu_forum_hapus -> {
                    //handle menu1 click
                    delete(forum.id!!, position)
                    return true
                }
                else -> return false
            }
        }
    })
    //displaying the popup
    popup.show()
}

holder.textlainnya.setOnClickListener {
    dialog_lainnya(forum.id!!)
}

```

```

        holder.itemView.setOnClickListener {
            update = "0"
            update(forum)
        }
//        holder.delete.setOnClickListener { deleteNote(forum.id!!, position) }
    }

    override fun getItemCount(): Int {
        return forumList.size
    }

    inner class ViewHolder internal constructor(view: View) :
RecyclerView.ViewHolder(view) {
        internal var textjudul: TextView
        internal var textdeskripsi: TextView
        internal var imageView: ImageView
        internal var edit: ImageView
        internal var like: ImageView
        internal var comment: ImageView
        internal var textlike: TextView
        internal var textcomment: TextView
        internal var textlainnya: TextView
        internal var thumbnail: ImageView
        internal var textnama: TextView
        internal var texttanggal: TextView

        init {
            textjudul = view.findViewById(R.id.textJudul)
            textdeskripsi = view.findViewById(R.id.textDeskripsi)
            edit = view.findViewById(R.id.imageedit)
            imageView = view.findViewById(R.id.imageView)
            like = view.findViewById(R.id.imagelike)
            comment = view.findViewById(R.id.imagecomment)
            textlike = view.findViewById(R.id.textLike)
            textcomment = view.findViewById(R.id.textKomentar)
            textlainnya = view.findViewById(R.id.textLainnya)
            thumbnail = view.findViewById(R.id.thumbnail)
            textnama = view.findViewById(R.id.textnama)
            texttanggal = view.findViewById(R.id.texttanggal)
        }
    }

    fun dialog_lainnya(id: String) {
        val inflater =
context.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
        val formsView = inflater.inflate(R.layout.dialog_lainnya, null, false)

```

```

var mAdapter: ChatKontakAdapter? = null
var List = mutableListOf<ChatKontak>()
var rv: RecyclerView
rv = findViewById(R.id.recycler_view)
rv.layoutManager = LinearLayoutManager(context)
rv.itemAnimator = DefaultItemAnimator()
rv.addItemDecoration(MyDividerItemDecoration(context,
DividerItemDecoration.VERTICAL, 36))
var count = 0
firestoreDB.collection("flp")
    .document(id)
    .collection("like")
    .get()
    .addOnSuccessListener { documentSnapshots1 ->
        if (documentSnapshots1 != null) {
            count = documentSnapshots1.size()
            for (doc in documentSnapshots1) {
                firestoreDB.collection("users")
                    .document(doc.id)
                    .get()
                    .addOnSuccessListener { documentSnapshots2 ->
                        if (documentSnapshots2 != null) {
                            val document =
documentSnapshots2.data

                                var ids = ""
                                var nim = ""
                                var nama = ""
                                var image_rul = ""
                                var tentang = ""
                                var token = ""
                                var akses = 0
                                var last_seen = ""
                                if (document != null) {
                                    if (document.get("id") != null)
                                        ids =
document.get("id").toString()

                                    if (document.get("nim") != null)
                                        nim =
document.get("nim").toString()

                                    if (document.get("nama") != null)
                                        nama =
document.get("nama").toString()

                                    if (document.get("image_rul") !=
null)
                                        image_rul =
document.get("image_rul").toString()

                                    if (document.get("tentang") != null)
                                        tentang =

```

```

document.get("tentang").toString()

document.get("token").toString()

document.get("akses").toString().toInt()

SimpleDateFormat("dd/MM/yy hh:mm")

doc.get("last_seen") as Timestamp

last_seens.toDate()

sdf.format(datelast_seens)

if (document.get("token") != null)
    token =

if (document.get("akses") != null)
    akses =

val sdf =

if (doc.get("last_seen") != null) {
    val last_seens =

    val datelast_seens =

    last_seen =

}
}
val list = ChatKontak(
    "" + ids,
    "" + image_rul,
    "" + nim,
    "" + nama,
    "" + tentang,
    "" + token,
    0 + akses,
    "" + last_seen
)
List.add(list)
System.out.println("List=>add=>" + list)
System.out.println("List=>size=>" +

List.size)

System.out.println("List=>size=>" +

List.size)

if (!List.isNullOrEmpty())
    mAdapter =

ChatKontakAdapter(List, context, firestoreDB)
if (mAdapter != null)
    rv.adapter = mAdapter

}

}

}

val builder = AlertDialog.Builder(context)
builder.setTitle("" + count + " Menyukai ini")
builder.setView(formsView)
builder.setCancelable(false)
builder.setPositiveButton("Kembali", { dialog, which ->

```

```

        dialog.cancel()
    })
    builder.show()
}

}

@SuppressLint("NewApi")
private fun update(forum: Forum) {
    val intent = Intent(context, ForumActivity::class.java)
    intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
    intent.putExtra("kategori", forum.kategori)
    intent.putExtra("create", "0")
    intent.putExtra("id", forum.id)
    intent.putExtra("image_url", forum.image_url)
    intent.putExtra("judul", forum.judul)
    intent.putExtra("deskripsi", forum.deskripsi)
    intent.putExtra("date", forum.dates)
    intent.putExtra("expired", forum.exps)
    intent.putExtra("uid", forum.uid)
    intent.putExtra("update", update)
    context.startActivity(intent)
}

private fun delete(id: String, position: Int) {

    firestoreDB.collection("flp")
        .document(id)
        .collection("like")
        .get()
        .addOnCompleteListener { task ->
            if (task.isSuccessful) {
                for (doc in task.result!!) {
                    doc.reference.delete()
                }
            }
        }

    firestoreDB.collection("flp")
        .document(id)
        .collection("comment")
        .get()
        .addOnCompleteListener { task ->
            if (task.isSuccessful) {
                for (doc in task.result!!) {
                    doc.reference.delete()
                }
            }
        }
}

```

```

    }

    firestoreDB.collection("flp")
        .document(id)
        .delete()
        .addOnCompleteListener {
            forumList.removeAt(position)
            notifyItemRemoved(position)
            notifyItemRangeChanged(position, forumList.size)
            Toast.makeText(context, "Berhasil dihapus...",
Toast.LENGTH_SHORT).show()
        }
    }

    private fun like(id: String) {
        val uid = sessionManager.getLogin().get("nim").toString()
        val likes = HashMap<String, Any>()
        likes.put("uid", uid)

        firestoreDB.collection("flp")
            .document(id)
            .collection("like")
            .document(uid)
            .get()
            .addOnSuccessListener { task ->
                if (task.exists()) {
                    firestoreDB.collection("flp")
                        .document(id)
                        .collection("like")
                        .document(uid)
                        .delete()
                        .addOnCompleteListener {}
                } else {
                    firestoreDB.collection("flp")
                        .document(id)
                        .collection("like")
                        .document(uid)
                        .set(likes)
                        .addOnCompleteListener {}
                }
            }.addOnFailureListener {
                //gagal
                Toast.makeText(
                    context,
                    "Gagal koneksi ke server,\nSilahkan cek koneksi dan coba
lagi...",
                    Toast.LENGTH_SHORT
                ).show()
            }
    }

```



```

    }
}

override fun getFilter(): Filter {
    if (filter == null) {
        filter = CustomFilter(filterList as ArrayList<Forum>, this)
    }
    return filter as CustomFilter
}

class CustomFilter(internal var filterList: ArrayList<Forum>, internal var
adapter: PengumumanAdapter) : Filter() {

    //FILTERING OCURS
    override fun performFiltering(constraint: CharSequence?): FilterResults {
        var constraint = constraint
        val results = Filter.FilterResults()
        //CHECK CONSTRAINT VALIDITY
        if (constraint != null && constraint.length > 0) {
            //CHANGE TO UPPER
            constraint = constraint.toString().toUpperCase()
            System.out.println("constraint=>" + constraint)
            //STORE OUR FILTERED PLAYERS
            val filteredPlayers = ArrayList<Forum>()
            for (i in filterList.indices) {
                //CHECK
                if (filterList[i].judul!!.toUpperCase().contains(constraint) ||
                    filterList[i].dates!!.toUpperCase().contains(constraint) ||
                    filterList[i].uid!!.toUpperCase().contains(constraint) ||
                    filterList[i].deskripsi!!.toUpperCase().contains(constraint)
                ) {
                    //ADD PLAYER TO FILTERED PLAYERS
                    filteredPlayers.add(filterList[i])
                }
            }
            results.count = filteredPlayers.size
            results.values = filteredPlayers
        } else {
            results.count = filterList.size
            results.values = filterList
        }
        return results
    }

    override fun publishResults(constraint: CharSequence, results:
FilterResults) {
        adapter.forumList = results.values as ArrayList<Forum>
    }
}

```

```

        //REFRESH
        adapter.notifyDataSetChanged()
    }
}

```

#### 6.16 RespondenAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.recyclerview.widget.RecyclerView
import com.google.firebase.firestore.FirebaseFirestore
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.Responden
import com.unibba.traceralumni2019.util.SessionManager

class RespondenAdapter (
    private val List: MutableList<Responden>,
    private var context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<RespondenAdapter.ViewHolder>() {
    var sessionManager = SessionManager(context)
    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
    ViewHolder {
        val view =
        LayoutInflater.from(parent.context).inflate(R.layout.activity_laporan_rekap_tracer_al
        umni_responden, parent, false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        val list = List[position]
        holder.textnama.text = list.nama
        holder.textjumlah.text = list.jumlah
        holder.textpersentase.text = list.persentase

        holder.itemView.setOnClickListener {
            //form intent list alumni
            val intent = Intent(context, ListAlumniActivity::class.java)
            intent.putExtra("angkatan",list.id)
            intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
            context.startActivity(intent)
        }
    }
}

```

```

        override fun getItemCount(): Int {
            return List.size
        }

        inner class ViewHolder internal constructor(view: View) :
            RecyclerView.ViewHolder(view) {
            internal var textnama: TextView
            internal var textjumlah: TextView
            internal var textpersentase: TextView

            init {
                textnama = view.findViewById(R.id.textnama)
                textjumlah = view.findViewById(R.id.textjumlah)
                textpersentase = view.findViewById(R.id.textpersentase)
            }
        }
    }
}

```

#### 6.17 UserRegistrasiAdapter.kt

```

package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.util.Log
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.Filter
import android.widget.Filterable
import android.widget.TextView
import android.widget.Toast
import androidx.recyclerview.widget.RecyclerView
import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.SetOptions
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.UserRegistrasi
import com.unibba.traceralumni2019.util.SessionManager
import java.text.SimpleDateFormat
import java.util.*
import kotlin.collections.ArrayList
import kotlin.collections.HashMap

class UserRegistrasiAdapter(
    private var UserRegistrasiList: MutableList<UserRegistrasi>,
    private val context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<UserRegistrasiAdapter.ViewHolder>(), Filterable {

```

```

val TAG = "UserRegistrasiAdapter"
var sessionManager = SessionManager(context)
var filterList = UserRegistrasiList
var filter: CustomFilter? = null
val auth = FirebaseAuth.getInstance()

override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
    val view =
LayoutInflater.from(parent.context).inflate(R.layout.fragment_pengelolaan_users_reg
ister_adapter, parent, false)
    return ViewHolder(view)
}

override fun onBindViewHolder(holder: ViewHolder, position: Int) {
    val list = UserRegistrasiList[position]

    holder.textTanggal.text = list.tgl
    holder.textNim.text = list.nim
    holder.textNama.text = list.nama
    holder.textEmail.text = list.email

    holder.textValidasi.setOnClickListener {
        validasi(
            position,
            1,
            "" + list.id,
            "" + list.nim,
            "" + list.nama,
            "" + list.email,
            "" + list.password,
            "" + list.tgl
        )
    }

    holder.textTolak.setOnClickListener {
        validasi(
            position,
            2,
            "" + list.id,
            "" + list.nim,
            "" + list.nama,
            "" + list.email,
            "" + list.password,
            "" + list.tgl
        )
    }
}

```

```

        override fun getItemCount(): Int {
            return UserRegistrasiList.size
        }

        inner class ViewHolder internal constructor(view: View) :
            RecyclerView.ViewHolder(view) {
            internal var textTanggal: TextView
            internal var textNim: TextView
            internal var textNama: TextView
            internal var textEmail: TextView
            internal var textValidasi: TextView
            internal var textTolak: TextView

            init {
                textTanggal = view.findViewById(R.id.textTanggal)
                textNim = view.findViewById(R.id.textNim)
                textNama = view.findViewById(R.id.textNama)
                textEmail = view.findViewById(R.id.textEmail)
                textValidasi = view.findViewById(R.id.textValidasi)
                textTolak = view.findViewById(R.id.textTolak)
            }
        }
    }

    private fun validasi(
        position: Int,
        validasi: Int,
        id: String,
        nim: String,
        nama: String,
        email: String,
        password: String,
        tanggal: String
    ) {
        val data = HashMap<String, Any>()
        data.put("validasi", validasi)

        firestoreDB.collection("users_register")
            .document(id)
            .set(data, SetOptions.merge())
            .addOnSuccessListener {
                if (validasi == 1) {
                    //masuk ke user jika sudah divalidasi
                    auth.createUserWithEmailAndPassword(email, password)
                        .addOnCompleteListener { task ->
                            if (task.isSuccessful) {
                                // Sign in success, update UI with the
signed-in user's information

```

```

password)
Log.d(TAG, "createUserWithEmail:succes")
auth.signInWithEmailAndPassword(email,

        .addOnSuccessListener { task ->
            val sdf =
SimpleDateFormat("dd-MM-yyyy HH:mm:ss", Locale.getDefault())
            val date = sdf.parse(tanggal)
            val data = HashMap<String, Any>()
            data.put("id", task.user!!.uid)
            data.put("id_register", id)
            data.put("nim", nim)
            data.put("nama", nama)
            data.put("email", email)
            data.put("akses", 0)
            data.put("date_register", date)
            data.put("date_validate", Date())

            firestoreDB.collection("users")
                .document(nim)
                .set(data, SetOptions.merge())
                .addOnSuccessListener {}
            val data2 = HashMap<String,

Any>()

            data2.put("nim", nim)
            data2.put("nama", nama)
            data2.put("email", email)
            data2.put("TS", 0)
            firestoreDB.collection("alumni")
                .document(nim)
                .set(data2, SetOptions.merge())
                .addOnSuccessListener {}
        }
    } else {
        Log.d(TAG, "createUserWithEmail:sudah ada
user")
    }
}
}

UserRegistrasiList.removeAt(position)
notifyItemRemoved(position)
notifyItemRangeChanged(position, UserRegistrasiList.size)
Toast.makeText(context, "Berhasil...", Toast.LENGTH_SHORT).show()
}

override fun getFilter(): Filter {
    if (filter == null) {

```

```

        filter = CustomFilter(filterList as ArrayList<UserRegistrasi>, this)
    }
    return filter as CustomFilter
}

class CustomFilter(
    internal var filterList: ArrayList<UserRegistrasi>,
    internal var adapter: UserRegistrasiAdapter
) : Filter() {

    //FILTERING OCURS
    override fun performFiltering(constraint: CharSequence?): FilterResults {
        var constraint = constraint
        val results = Filter.FilterResults()
        //CHECK CONSTRAINT VALIDITY
        if (constraint != null && constraint.length > 0) {
            //CHANGE TO UPPER
            constraint = constraint.toString().toUpperCase()
            System.out.println("constraint=>" + constraint)
            //STORE OUR FILTERED PLAYERS
            val filteredPlayers = ArrayList<UserRegistrasi>()
            for (i in filterList.indices) {
                //CHECK
                if (filterList[i].nim!!.toUpperCase().contains(constraint) ||
                    filterList[i].nama!!.toUpperCase().contains(constraint) ||
                    filterList[i].email!!.toUpperCase().contains(constraint)
                ) {
                    //ADD PLAYER TO FILTERED PLAYERS
                    filteredPlayers.add(filterList[i])
                }
            }
            results.count = filteredPlayers.size
            results.values = filteredPlayers
        } else {
            results.count = filterList.size
            results.values = filterList
        }
        return results
    }

    override fun publishResults(constraint: CharSequence, results:
FilterResults) {
        adapter.UserRegistrasiList = results.values as
ArrayList<UserRegistrasi>
        //REFRESH
        adapter.notifyDataSetChanged()
    }
}

```

```
}
```

## 6.18 UsersAdapter.kt

```
package com.unibba.traceralumni2019.adapter

import android.content.Context
import android.text.TextUtils
import android.view.LayoutInflater
import android.view.MenuItem
import android.view.View
import android.view.ViewGroup
import android.widget.*
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.widget.PopupMenu
import androidx.recyclerview.widget.RecyclerView
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions
import com.google.android.material.textfield.TextInputLayout
import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.SetOptions
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.Users
import com.unibba.traceralumni2019.util.SessionManager

class UsersAdapter(
    private var UsersList: MutableList<Users>,
    private val context: Context,
    private val firestoreDB: FirebaseFirestore
) : RecyclerView.Adapter<UsersAdapter.ViewHolder>(), Filterable {
    val TAG = "UsersAdapter"
    var sessionManager = SessionManager(context)
    var filterList = UsersList
    var filter: CustomFilter? = null
    val auth = FirebaseAuth.getInstance()

    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
        val view =
            LayoutInflater.from(parent.context).inflate(R.layout.fragment_pengelolaan_users_adapter, parent, false)
        return ViewHolder(view)
    }

    override fun onBindViewHolder(holder: ViewHolder, position: Int) {
        val list = UsersList[position]
```



```

Glide.with(context).load(list.image_url)
    .apply(
        RequestOptions()
            .circleCrop()
            .centerCrop()
            .error(R.drawable.ic_user)
            .placeholder(R.drawable.ic_user)
    )
    .apply(RequestOptions.circleCropTransform())
    .into(holder.imageView)

holder.textNama.text = "[" + list.nim + "]" + list.nama
holder.textEmail.text = list.email
holder.textRegister.text = list.reg
holder.textLastseen.text = list.last
holder.textAkses.text = list.hak_aksess

holder.edit.setOnClickListener {

    //creating a popup menu
    val popup = PopupMenu(context, holder.edit)
    //inflating menu from xml resource
    popup.inflate(R.menu.users_menu)
    val menuedit = popup.menu.findItem(R.id.menu_users_edit)
    //adding click listener
    popup.setOnMenuItemClickListener(object :
PopupMenu.OnMenuItemClickListener {
        override fun onMenuItemClick(item: MenuItem): Boolean {
            when (item.itemId) {
                R.id.menu_users_edit -> {
                    //handle menu1 click
                    edit(list.nim.toString(), list.nama.toString(),
list.email.toString(), list.hak_aksess.toString())
                    return true
                }
                R.id.menu_users_aksess -> {
                    //handle menu1 click
                    aksess(list.nim.toString(), list.nama.toString(),
list.hak_aksess.toString())
                    return true
                }
                else -> return false
            }
        }
    })
    //displaying the popup
    popup.show()
}

```

```

    }

    fun edit(nims:String, namas:String, emails:String, akses:String) {
        val inflater =
context.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
        val formsView = inflater.inflate(R.layout.dialog_pengelolaan_user, null,
false)
        var nim: EditText
        var nama: EditText
        var email: EditText
        var pass1: EditText
        var pass2: EditText
        var akses: Spinner
        var btnsimpan: Button

        nim = formsView.findViewById(R.id.textNim)
        nama = formsView.findViewById(R.id.textNama)
        email = formsView.findViewById(R.id.textEmail)
        pass1 = formsView.findViewById(R.id.inputPassword1)
        pass2 = formsView.findViewById(R.id.inputPassword2)
        akses = formsView.findViewById(R.id.hak_akses)
        btnsimpan = formsView.findViewById(R.id.btnSimpan)

        nim.isEnabled = false
        nama.isEnabled = false
        akses.isEnabled = false

        nim.setText(nims)
        nama.setText(namas)
        email.setText(emails)
        if (akses.equals("Admin")){
            akses.setSelection(1)
        }

        val builder = AlertDialog.Builder(context)
        val dialog = builder.create()
        dialog.setTitle("Edit Users")
        dialog.setView(formsView)
        dialog.show()
        btnsimpan.setOnClickListener {
            if (TextUtils.isEmpty(nim.text.toString())) {
                Toast.makeText(context, "Nim tidak boleh kosong!!!",
Toast.LENGTH_LONG).show()
                nim.requestFocus()
            } else if (TextUtils.isEmpty(nama.text.toString())) {
                Toast.makeText(context, "Nama tidak boleh kosong!!!",
Toast.LENGTH_LONG).show()
            }
        }
    }

```

```

        nama.requestFocus()
    } else if (TextUtils.isEmpty(email.text.toString())) {
        Toast.makeText(context, "Email tidak boleh kosong!!!",
Toast.LENGTH_LONG).show()
        email.requestFocus()
    } else if (isValidEmail(email.text.toString()) == false) {
        Toast.makeText(context, "Email salah!!!",
Toast.LENGTH_LONG).show()
        email.requestFocus()
    } else if (!pass1.text.toString().equals(pass2.text.toString())) {
        Toast.makeText(context, "Password tidak sama!!!",
Toast.LENGTH_LONG).show()
        pass1.requestFocus()
    } else if (pass1.text.toString().length < 6) {
        Toast.makeText(context, "Password harus 6 karakter!!!",
Toast.LENGTH_LONG).show()
        pass1.requestFocus()
    } else {
        firestoreDB.collection("users")
            .whereEqualTo("email", email.text.toString().trim())
            .get()
            .addOnSuccessListener { task ->
                if (task.size() == 0) {

auth.createUserWithEmailAndPassword(email.text.toString(), pass1.text.toString())
                    .addOnSuccessListener { task ->

auth.sendPasswordResetEmail(email.text.toString())
                        Toast.makeText(context, "Silahkan cek
email user untuk Reset Password!!!", Toast.LENGTH_LONG).show()

                                if (akses.selectedItemPosition == 0) {
                                    val data = HashMap<String, Any>()
                                    data.put("nim",
nim.text.toString().toUpperCase())
                                    data.put("nama",
nama.text.toString().toUpperCase())
                                    data.put("email",
email.text.toString())
                                    firestoreDB.collection("alumni")
                                        .document(nim.text.toString().t
oUpperCase())
                                        .set(data, SetOptions.merge())
                                    }
                                    val data = HashMap<String, Any>()
                                    data.put("nim",
nim.text.toString().toUpperCase())
                                    data.put("nama",

```

```

nama.text.toString().toUpperCase())

                                data.put("email", email.text.toString())
                                data.put("akses",
akses.selectedItemPosition)                                firestoreDB.collection("users")
                                                                .document(nim.text.toString()).toUp
perCase())                                                                .set(data, SetOptions.merge())
                                                                }
                                                                dialog.dismiss()
                                                                }else{
                                                                Toast.makeText(context, "Email Sudah
Terdaftar!!!", Toast.LENGTH_LONG).show()
                                                                }
                                                                }
                                                                }
                                                                }
                                                                }

fun akses(nims:String, namas:String, akses:String){
    val inflater =
context.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
    val formsView = inflater.inflate(R.layout.dialog_pengelolaan_user, null,
false)
    var nim: EditText
    var nama: EditText
    var email: EditText
    var pass1layout: TextInputLayout
    var pass2layout: TextInputLayout
    var pass1: EditText
    var pass2: EditText
    var akses: Spinner
    var btnsimpan: Button

    nim = formsView.findViewById(R.id.textNim)
    nama = formsView.findViewById(R.id.textNama)
    email = formsView.findViewById(R.id.textEmail)
    pass1layout = formsView.findViewById(R.id.pass1layout)
    pass2layout = formsView.findViewById(R.id.pass2layout)
    pass1 = formsView.findViewById(R.id.inputPassword1)
    pass2 = formsView.findViewById(R.id.inputPassword2)
    akses = formsView.findViewById(R.id.hak_akses)
    btnsimpan = formsView.findViewById(R.id.btnSimpan)

    nim.isEnabled = false
    nama.isEnabled = false
    email.visibility = View.GONE

```

```

pass1.visibility = View.GONE
pass2.visibility = View.GONE
pass1layout.visibility = View.GONE
pass2layout.visibility = View.GONE

nim.setText(nims)
nama.setText(namas)
if (akses.equals("Admin")){
    akses.setSelection(1)
}

val builder = AlertDialog.Builder(context)
val dialog = builder.create()
dialog.setTitle("Edit Hak Akses Users")
dialog.setView(formsView)
dialog.show()
btnsimpan.setOnClickListener {
    if (!nims.equals("ADMIN")) {
        val data = HashMap<String, Any>()
        data.put("akses", akses.selectedItemPosition)
        firestoreDB.collection("users")
            .document(nims.toUpperCase())
            .set(data, SetOptions.merge())
    }
    dialog.dismiss()
}
}

override fun getItemCount(): Int {
    return UsersList.size
}

inner class ViewHolder internal constructor(view: View) :
RecyclerView.ViewHolder(view) {
    internal var imageView: ImageView
    internal var edit: ImageView
    internal var textNama: TextView
    internal var textEmail: TextView
    internal var textRegister: TextView
    internal var textLastseen: TextView
    internal var textAkses: TextView

    init {
        imageView = view.findViewById(R.id.imageView)
        edit = view.findViewById(R.id.imageedit)
        textNama = view.findViewById(R.id.textNama)
        textEmail = view.findViewById(R.id.textEmail)
        textRegister = view.findViewById(R.id.textRegister)
    }
}

```

```

        textLastseen = view.findViewById(R.id.textLastseen)
        textAkses = view.findViewById(R.id.textAkses)
    }
}

override fun getFilter(): Filter {
    if (filter == null) {
        filter = CustomFilter(filterList as ArrayList<Users>, this)
    }
    return filter as CustomFilter
}

class CustomFilter(
    internal var filterList: ArrayList<Users>,
    internal var adapter: UsersAdapter
) : Filter() {

    //FILTERING OCURS
    override fun performFiltering(constraint: CharSequence?): FilterResults {
        var constraint = constraint
        val results = Filter.FilterResults()
        //CHECK CONSTRAINT VALIDITY
        if (constraint != null && constraint.length > 0) {
            //CHANGE TO UPPER
            constraint = constraint.toString().toUpperCase()
            System.out.println("constraint=>" + constraint)
            //STORE OUR FILTERED PLAYERS
            val filteredPlayers = ArrayList<Users>()
            for (i in filterList.indices) {
                //CHECK
                if (filterList[i].nim!!.toUpperCase().contains(constraint) ||
                    filterList[i].nama!!.toUpperCase().contains(constraint) ||
                    filterList[i].email!!.toUpperCase().contains(constraint)
                ) {
                    //ADD PLAYER TO FILTERED PLAYERS
                    filteredPlayers.add(filterList[i])
                }
            }
            results.count = filteredPlayers.size
            results.values = filteredPlayers
        } else {
            results.count = filterList.size
            results.values = filterList
        }
        return results
    }
}

```

```

        override fun publishResults(constraint: CharSequence, results:
FilterResults) {
            adapter.UsersList = results.values as ArrayList<Users>
            //REFRESH
            adapter.notifyDataSetChanged()
        }
    }

    fun isValidEmail(target: CharSequence): Boolean {
        return !TextUtils.isEmpty(target) &&
        android.util.Patterns.EMAIL_ADDRESS.matcher(target).matches()
    }
}

```

## 7. Fragment

### 7.1 BackupFragment.kt

```

package com.unibba.traceralumni2019.fragment

import android.Manifest
import android.os.Bundle
import android.os.Environment
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.Button
import android.widget.CheckBox
import android.widget.ProgressBar
import android.widget.Toast
import androidx.fragment.app.Fragment
import com.github.babedev.dexter.dsl.runtimePermission
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.storage.FirebaseStorage
import com.google.firebase.storage.StorageReference
import com.google.gson.Gson
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.AlumniBackup
import com.unibba.traceralumni2019.model.FLPBackup
import com.unibba.traceralumni2019.model.TracerStudyBackup
import com.unibba.traceralumni2019.util.SessionManager
import java.io.File
import java.text.SimpleDateFormat
import java.util.*

class BackupFragment : Fragment() {

    private val TAG = "BackupFragment"
    private lateinit var pbLoading: ProgressBar

```

```

private lateinit var sessionManager: SessionManager
private lateinit var button1: Button
private lateinit var button2: Button
private lateinit var button3: Button
private lateinit var cb1: CheckBox
private lateinit var cb2: CheckBox
private lateinit var cb3: CheckBox
private lateinit var cb4: CheckBox
private lateinit var cb5: CheckBox
private lateinit var cb6: CheckBox
private lateinit var cb7: CheckBox
private lateinit var cb8: CheckBox
private lateinit var cb9: CheckBox
private lateinit var cb10: CheckBox
private lateinit var cb11: CheckBox
private lateinit var cb12: CheckBox
private lateinit var cb13: CheckBox
private lateinit var cb14: CheckBox
private lateinit var cb15: CheckBox
private lateinit var cb16: CheckBox
private var firestoreDB: FirebaseFirestore? = null
private var storageReference: StorageReference? = null

```

```

override fun onCreateView(
    inflater: LayoutInflater,
    container: ViewGroup?,
    savedInstanceState: Bundle?
): View? {
    val rootView: View = inflater.inflate(R.layout.fragment_backup, container,
false)

    firestoreDB = FirebaseFirestore.getInstance()
    storageReference = FirebaseStorage.getInstance().reference
    sessionManager = SessionManager(context!!)
    pbLoading = rootView.findViewById(R.id.pbLoading)
    button1 = rootView.findViewById(R.id.button1)
    button2 = rootView.findViewById(R.id.button2)
    button3 = rootView.findViewById(R.id.button3)
    cb1 = rootView.findViewById(R.id.cb1)
    cb2 = rootView.findViewById(R.id.cb2)
    cb3 = rootView.findViewById(R.id.cb3)
    cb4 = rootView.findViewById(R.id.cb4)
    cb5 = rootView.findViewById(R.id.cb5)
    cb6 = rootView.findViewById(R.id.cb6)
    cb7 = rootView.findViewById(R.id.cb7)
    cb8 = rootView.findViewById(R.id.cb8)
    cb9 = rootView.findViewById(R.id.cb9)
    cb10 = rootView.findViewById(R.id.cb10)

```



```

        cb11 = rootView.findViewById(R.id.cb11)
        cb12 = rootView.findViewById(R.id.cb12)
        cb13 = rootView.findViewById(R.id.cb13)
        cb14 = rootView.findViewById(R.id.cb14)
        cb15 = rootView.findViewById(R.id.cb15)
        cb16 = rootView.findViewById(R.id.cb16)

        pbLoading.visibility = View.GONE

        runtimePermission {
            permissions(Manifest.permission.READ_EXTERNAL_STORAGE,
Manifest.permission.WRITE_EXTERNAL_STORAGE) {
                checked {
                    button1.setOnClickListener {
                        backupdata()
                    }
                    button2.setOnClickListener {
                        hapus_data_kadaluarsa()
                    }
                    button3.setOnClickListener {
                        hapus_semua_data()
                    }
                }
            }
        }
        return rootView
    }

    fun backupdata() {
        if (cb1.isChecked == true) {
            firestoreDB!!.collection("alumni")
                .get()
                .addOnSuccessListener { task ->
                    var List = mutableListOf<AlumniBackup>()
                    if (!task.isEmpty) {
                        for (doc in task) {
                            val alumni =
doc.toObject(AlumniBackup::class.java)
                            alumni.id = doc.id
                            List.add(alumni)
                        }
                        if (!List.isEmpty())
                            backupAlumni(List)
                        Toast.makeText(context, "Berhasil, Backup Data
Alumni", Toast.LENGTH_SHORT).show()
                    } else {
                        Toast.makeText(context, "Gagal, Backup Data
Alumni", Toast.LENGTH_SHORT).show()
                    }
                }
            }
        }
    }

```

```

    }
    }
}
if (cb2.isChecked == true) {
    firestoreDB!!.collection("tracerstudy")
        .get()
        .addOnSuccessListener { task ->
            var List = mutableListOf<TracerStudyBackup>()
            if (!task.isEmpty) {
                for (doc in task) {
                    val list =
doc.toObject(TracerStudyBackup::class.java)
                    list.id = doc.id
                    List.add(list)
                }
                if (!List.isEmpty())
                    backupTSA(List)
                Toast.makeText(context, "Berhasil, Backup Data Tracer
Study Alumni", Toast.LENGTH_SHORT).show()
            } else {
                Toast.makeText(context, "Gagal, Backup Data Tracer
Study Alumni", Toast.LENGTH_SHORT).show()
            }
        }
    }
}
if (cb3.isChecked == true) {
    firestoreDB!!.collection("chat")
        .get()
        .addOnSuccessListener { task ->

        }
    }
}
if (cb4.isChecked == true) {
    firestoreDB!!.collection("flp")
        .whereEqualTo("kategori", "FORUM")
        .get()
        .addOnSuccessListener { task ->
            var List = mutableListOf<FLPBackup>()
            if (!task.isEmpty) {
                for (doc in task) {
                    val list = doc.toObject(FLPBackup::class.java)
                    list.id = doc.id
                    List.add(list)
                }
                if (!List.isEmpty())
                    backupFLP("forum", List)
                Toast.makeText(context, "Berhasil, Backup Data

```

```

Forum", Toast.LENGTH_SHORT).show()
        } else {
            Toast.makeText(context, "Gagal, Backup Data Forum",
Toast.LENGTH_SHORT).show()
        }
    }
}
if (cb5.isChecked == true) {
    firestoreDB!!.collection("flp")
        .whereEqualTo("kategori", "LOKER")
        .get()
        .addOnSuccessListener { task ->
            var List = mutableListOf<FLPBackup>()
            if (!task.isEmpty) {
                for (doc in task) {
                    val list = doc.toObject(FLPBackup::class.java)
                    list.id = doc.id
                    List.add(list)
                }
                if (!List.isEmpty())
                    backupFLP("loker", List)
                Toast.makeText(context, "Berhasil, Backup Data
Loker", Toast.LENGTH_SHORT).show()
            } else {
                Toast.makeText(context, "Gagal, Backup Data Loker",
Toast.LENGTH_SHORT).show()
            }
        }
}
if (cb6.isChecked == true) {
    firestoreDB!!.collection("flp")
        .whereEqualTo("kategori", "PENGUMUMAN")
        .get()
        .addOnSuccessListener { task ->
            var List = mutableListOf<FLPBackup>()
            if (!task.isEmpty) {
                for (doc in task) {
                    val list = doc.toObject(FLPBackup::class.java)
                    list.id = doc.id
                    List.add(list)
                }
                if (!List.isEmpty())
                    backupFLP("loker", List)
                Toast.makeText(context, "Berhasil, Backup Data
Pengumuman", Toast.LENGTH_SHORT).show()
            } else {
                Toast.makeText(context, "Gagal, Backup Data
Pengumuman", Toast.LENGTH_SHORT).show()
            }
        }
}

```



```

        if (!task.isEmpty) {
            for (docs in task) {
                firestoreDB!!.collection("flp")
                    .document(doc.id)
                    .collection("like")
                    .document(docs.id)
                    .delete()
            }
        }
        firestoreDB!!.collection("flp")
            .document(doc.id)
            .delete()
        val ref = storageReference!!.child("images/forum/"
+ doc.id + ".jpg")
        ref.delete()
    }
}
}
}
}
if (cb9.isChecked == true) {
    firestoreDB!!.collection("flp")
        .whereEqualTo("kategori", "LOKER")
        .whereLessThanOrEqualTo("expired", Date())
        .get()
        .addOnSuccessListener { task ->
            if (!task.isEmpty) {
                for (doc in task) {
                    firestoreDB!!.collection("flp")
                        .document(doc.id)
                        .collection("like")
                        .get()
                        .addOnSuccessListener { task ->
                            if (!task.isEmpty) {
                                for (docs in task) {
                                    firestoreDB!!.collection("flp")
                                        .document(doc.id)
                                        .collection("like")
                                        .document(docs.id)
                                        .delete()
                                }
                            }
                        }
                }
            }
            firestoreDB!!.collection("flp")
                .document(doc.id)
                .delete()
            val ref = storageReference!!.child("images/loker/"
+ doc.id + ".jpg")

```

```

                                ref.delete()
                            }
                        }
                    }
                }
            if (cb10.isChecked == true) {
                firestoreDB!!.collection("flp")
                    .whereEqualTo("kategori", "PENGUMUMAN")
                    .whereLessThan("expired", Date())
                    .get()
                    .addOnSuccessListener { task ->
                        if (!task.isEmpty) {
                            for (doc in task) {
                                firestoreDB!!.collection("flp")
                                    .document(doc.id)
                                    .collection("like")
                                    .get()
                                    .addOnSuccessListener { task ->
                                        if (!task.isEmpty) {
                                            for (docs in task) {
                                                firestoreDB!!.collection("flp")
                                                    .document(doc.id)
                                                    .collection("like")
                                                    .document(docs.id)
                                                    .delete()
                                            }
                                        }
                                    }
                                }
                            firestoreDB!!.collection("flp")
                                .document(doc.id)
                                .delete()
                            val ref =
                                storageReference!!.child("images/pengumuman/" + doc.id + ".jpg")
                                ref.delete()
                            }
                        }
                    }
                }
            }

fun hapus_semua_data() {
    if (cb11.isChecked == true) {
        firestoreDB!!.collection("alumni")
            .get()
            .addOnSuccessListener { task ->
                for (doc in task) {
                    firestoreDB!!.collection("alumni")
                        .document(doc.id)

```

```

        .delete()
    }
}
.addOnFailureListener {

}
}
if (cb12.isChecked == true) {
    firestoreDB!!.collection("tracerstudy")
        .get()
        .addOnSuccessListener { task ->
            for (doc in task) {
                firestoreDB!!.collection("tracerstudy")
                    .document(doc.id)
                    .delete()
            }
        }
        .addOnFailureListener {

}
}
if (cb13.isChecked == true) {
    firestoreDB!!.collection("chat")
        .get()
        .addOnSuccessListener { task ->
            for (doc in task) {
                firestoreDB!!.collection("chat")
                    .document(doc.id)
                    .delete()
            }
        }
        .addOnFailureListener {

}
}
if (cb14.isChecked == true) {
    firestoreDB!!.collection("flp")
        .whereEqualTo("kategori", "FORUM")
        .get()
        .addOnSuccessListener { task ->
            for (doc in task) {
                firestoreDB!!.collection("flp")
                    .document(doc.id)
                    .delete()
                val ref = storageReference!!.child("images/forum/" +
doc.id + ".jpg")
                ref.delete()
            }
        }
}

```

```

        }
        .addOnFailureListener {}
    }
    if (cb15.isChecked == true) {
        firestoreDB!!.collection("flp")
            .whereEqualTo("kategori","LOKER")
            .get()
            .addOnSuccessListener { task ->
                for (doc in task) {
                    firestoreDB!!.collection("flp")
                        .document(doc.id)
                        .delete()
                    val ref = storageReference!!.child("images/loker/" +
doc.id + ".jpg")
                    ref.delete()
                }
            }
        .addOnFailureListener {}
    }
    if (cb16.isChecked == true) {
        firestoreDB!!.collection("flp")
            .whereEqualTo("kategori","PENGUMUMAN")
            .get()
            .addOnSuccessListener { task ->
                for (doc in task) {
                    firestoreDB!!.collection("flp")
                        .document(doc.id)
                        .delete()
                    val ref =
storageReference!!.child("images/pengumuman/" + doc.id + ".jpg")
                    ref.delete()
                }
            }
        .addOnFailureListener {}
    }
}

fun backupAlumni(List: MutableList<AlumniBackup>) {
    var gson = Gson()
    val json = gson.toJson(List)
    System.out.println("backupJson=>" + json)
    backupJson(json.toString(), "alumni")
}

fun backupTSA(List: MutableList<TracerStudyBackup>) {
    var gson = Gson()
    val json = gson.toJson(List)
    System.out.println("backupJson=>" + json)
}

```



```

        backupJson(json.toString(), "tracerstudy")
    }

    fun backupFLP(file: String, List: MutableList<FLPBackup>) {
        var gson = Gson()
        val json = gson.toJson(List)
        System.out.println("backupJson=>" + json)
        backupJson(json.toString(), file)
    }

    fun backupJson(JsonString: String, filename: String) {
        val sdf = SimpleDateFormat("ddMMyy")
        val dir = "TracerAlumniUnibba/backup_" + sdf.format(Date())
        val path = Environment.getExternalStorageDirectory()
        val letDirectory = File(path, dir)
        if (!letDirectory.exists())
            letDirectory.mkdirs()
        val file = File(letDirectory, filename + ".json")
        file.writeText(JsonString)
    }
}

```

## 7.2 ChatFragment.kt

```

package com.unibba.traceralumni2019.fragment

import android.content.Intent
import android.os.Bundle
import android.util.Log
import android.view.*
import android.widget.ProgressBar
import android.widget.TextView
import androidx.annotation.Nullable
import androidx.appcompat.app.AppCompatActivity
import androidx.appcompat.widget.SearchView
import androidx.appcompat.widget.Toolbar
import androidx.core.view.MenuItemCompat
import androidx.fragment.app.Fragment
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.DividerItemDecoration
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import com.google.android.material.floatingactionbutton.FloatingActionButton
import com.google.firebase.Timestamp
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.firestore.Query

```

```

import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.activity.ChatKontakActivity
import com.unibba.traceralumni2019.adapter.ChatAdapter
import com.unibba.traceralumni2019.model.Chat
import com.unibba.traceralumni2019.util.MyDividerItemDecoration
import com.unibba.traceralumni2019.util.SessionManager
import java.text.SimpleDateFormat

class ChatFragment : Fragment() {

    private val TAG = "ChatFragment"
    private lateinit var toolbar: Toolbar
    private lateinit var fab: FloatingActionButton
    private lateinit var pbLoading: ProgressBar
    private lateinit var recyclerView: RecyclerView
    private lateinit var textKosong: TextView
    private var mAdapter: ChatAdapter? = null
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var sessionManager: SessionManager

    @Nullable
    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        val rootView: View = inflater.inflate(R.layout.fragment_chat, container,
false)

        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(context!!)
        toolbar = rootView.findViewById(R.id.toolbar)
        fab = rootView.findViewById(R.id.fab)
        pbLoading = rootView.findViewById(R.id.pbLoading)
        textKosong = rootView.findViewById(R.id.textKosong)
        recyclerView = rootView.findViewById(R.id.recycler_view)
        toolbar.title = "Chat"
        (activity as AppCompatActivity).setSupportActionBar(toolbar)
        setHasOptionsMenu(true)

        val layoutManager = LinearLayoutManager(context)
        recyclerView.layoutManager = layoutManager
        recyclerView.itemAnimator = DefaultItemAnimator()
        recyclerView.addItemDecoration(MyDividerItemDecoration(context!!,
DividerItemDecoration.VERTICAL, 36))
        var nim = sessionManager.getLogin().get("nim").toString()

        firestoreListener = firestoreDB!!

```

```

.collection("chat")
.whereArrayContains("userid", nim)
.orderBy("timestamp", Query.Direction.DESCENDING)
.addSnapshotListener(EventListener { documentSnapshots, e ->
    if (e != null) {
        Log.e(TAG, "Listen failed!", e)
        pbLoading.visibility = View.GONE
        return@EventListener
    }
    System.out.println("userids=>" + documentSnapshots?.size())
    val chatList = mutableListOf<Chat>()
    if (documentSnapshots != null) {
        textkosong.visibility = View.GONE
        for (doc in documentSnapshots) {
            var uid = ""
            var token = ""
            var nama = ""
            var image = ""
            var pesan = ""
            var timestamp = ""
            var last_seen = ""
            var read = 0
            if (doc.get("userid") != null && doc.get("userdata") !=
null) {
                if (doc.get("token") != null)
                    token = doc.get("token").toString()
                val userid_count = doc.get("userid") as
ArrayList<String>
                val userid = doc.get("userid") as
ArrayList<String>
                userid.remove(nim)
                val userdata = doc.get("userdata") as
HashMap<String, Map<String, Any>>
                val userdata_count = doc.get("userdata") as
HashMap<String, Map<String, Any>>
                uid = userid[0]
                userid_count.remove(uid)
                if (userdata.get(userid[0])?.get("nama") != null)
                    nama =
userdata.get(userid[0])?.get("nama").toString()
                if (userdata.get(userid[0])?.get("image_url") !=
null)
                    image =
userdata.get(userid[0])?.get("image_url").toString()
                pesan = doc.get("pesan").toString()
                val sdf = SimpleDateFormat("dd/MM/yyyy
hh:mm")
                val timestamps = doc.get("timestamp") as

```

```

Timestamp
                                timestamp = sdf.format(timestamps.toDate())
                                val last_seens =
userdata.get(userid[0])?.get("last_seen") as Timestamp
                                last_seen = sdf.format(last_seens.toDate())
                                if
(userdata_count.get(userid_count[0])?.get("read") != null)
                                    read =
userdata_count.get(userid_count[0])?.get("read").toString().toInt()

                                val chat = Chat(
                                    "" + doc.id,
                                    "" + token,
                                    "" + uid,
                                    "" + nama,
                                    "" + image,
                                    "" + pesan,
                                    "" + timestamp,
                                    "" + last_seen,
                                    0 + read
                                )
                                chatList.add(chat)
                            }
                        }
                    if (!chatList.isNullOrEmpty()) {
                        context?.let {
                            mAdapter = ChatAdapter(chatList, it,
firestoreDB!!)
                        }
                    }
                    if (mAdapter != null) {
                        recyclerView.adapter = mAdapter
                    }
                }
                pbLoading.visibility = View.GONE
            })

            fab.setOnClickListener {
                val intent = Intent(this.activity, ChatKontakActivity::class.java)
                intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
                startActivity(intent)
            }

            return rootView
        }

        override fun onDestroy() {
            super.onDestroy()

```

```

        if (firestoreListener != null) {
            firestoreListener!!.remove()
            firestoreListener = null
        }
    }

    override fun onCreateOptionsMenu(menu: Menu, inflater: MenuInflater) {
        inflater.inflate(R.menu.menu_search, menu)
        super.onCreateOptionsMenu(menu, inflater)
        val item = menu.findItem(R.id.action_search)
        val searchView = MenuItemCompat.getActionView(item) as SearchView
        searchView.setOnQueryTextListener(object :
SearchView.OnQueryTextListener {
            override fun onQueryTextSubmit(query: String): Boolean {
                return false
            }

            override fun onQueryTextChange(query: String): Boolean {
                //FILTER AS YOU TYPE
                if (mAdapter != null) {
                    mAdapter?.getFilter()?.filter(query)
                }
                // Run.after(1000, {
                //     texttotal.text = "Total " + mAdapter!!.itemCount
                // })
                return false
            }
        })
    }

    override fun onOptionsItemSelected(item: MenuItem): Boolean {
        // Handle action bar item clicks here. The action bar will
        // automatically handle clicks on the Home/Up button, so long
        // as you specify a parent activity in AndroidManifest.xml.
        val id = item.itemId
        return true
    }
}

```

### 7.3 InfoFragment.kt

```

package com.unibba.traceralumni2019.fragment

import android.os.Bundle
import android.view.ViewGroup
import android.view.LayoutInflater
import android.view.View
import androidx.annotation.Nullable
import androidx.fragment.app.Fragment

```

```

import androidx.fragment.app.FragmentManager
import androidx.fragment.app.FragmentPagerAdapter
import androidx.viewpager.widget.ViewPager
import com.google.android.material.tabs.TabLayout
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.util.SessionManager

class InfoFragment : Fragment() {

    lateinit var viewPager: ViewPager
    lateinit var tabs: TabLayout
    private lateinit var sessionManager: SessionManager

    @Nullable
    override fun onCreateView(inflater: LayoutInflater,
                                container: ViewGroup?,
                                savedInstanceState: Bundle?): View? {
        val rootView: View = inflater.inflate(R.layout.fragment_info,
container,false)
        sessionManager = SessionManager(context!!)
        viewPager = rootView.findViewById(R.id.viewpager)
        tabs = rootView.findViewById(R.id.tabs)
        if (viewPager != null) {
            setupViewPager(viewPager)
        }
        return rootView
    }

    private fun setupViewPager(viewPager: ViewPager) {
        val adapter = Adapter(this.childFragmentManager)
        adapter.addFragment(InfoFragment4(), "Angkatan")
        adapter.addFragment(InfoFragment5(), "Tempat Bekerja\nAlumni")
        adapter.addFragment(InfoFragment1(), "Forum")
        adapter.addFragment(InfoFragment2(), "Loker")
        val akses = sessionManager.getLogin().get("akses").toString()
        if (akses.equals("1")) {
            adapter.addFragment(InfoFragment3(), "Pengumuman")
        }
        viewPager.adapter = adapter
        tabs.setupWithViewPager(viewPager)
    }

    internal class Adapter(fm: FragmentManager) : FragmentPagerAdapter(fm) {
        private val mFragments = ArrayList<Fragment>()
        private val mFragmentTitles = ArrayList<String>()

        fun addFragment(fragment: Fragment, title: String) {
            mFragments.add(fragment)

```

```

        mFragmentTitles.add(title)
    }

    override fun getItem(position: Int): Fragment {
        return mFragments.get(position)
    }

    override fun getCount(): Int {
        return mFragments.size
    }

    override fun getPageTitle(position: Int): CharSequence? {
        return mFragmentTitles.get(position)
    }
}
}

```

#### 7.4 InfoFragment1.kt

```

package com.unibba.traceralumni2019.fragment

import android.content.Intent
import android.os.Bundle
import android.text.Editable
import android.text.TextWatcher
import android.util.Log
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.EditText
import android.widget.ProgressBar
import android.widget.TextView
import androidx.fragment.app.Fragment
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import com.google.android.material.floatingactionbutton.FloatingActionButton
import com.google.firebase.Timestamp
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.activity.ForumActivity
import com.unibba.traceralumni2019.adapter.ForumAdapter
import com.unibba.traceralumni2019.model.Forum
import com.unibba.traceralumni2019.util.Run
import com.unibba.traceralumni2019.util.SessionManager
import java.text.SimpleDateFormat
import java.util.*

```

```

class InfoFragment1 : Fragment() {

    private val TAG = "InfoFragment1"
    private lateinit var textsearch: EditText
    private lateinit var texttotal: TextView
    private lateinit var fab: FloatingActionButton
    private lateinit var pbLoading: ProgressBar
    private lateinit var sessionManager: SessionManager
    private lateinit var recyclerView: RecyclerView
    private var mAdapterter: ForumAdapter? = null
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        super.onCreate(savedInstanceState)
        val rootView: View = inflater.inflate(R.layout.fragment_info_flp, container,
false)

        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(context!!)
        sessionManager.setStart("0")
        textsearch = rootView.findViewById(R.id.textsearch)
        texttotal = rootView.findViewById(R.id.texttotal)
        fab = rootView.findViewById(R.id.fab)
        pbLoading = rootView.findViewById(R.id.pbLoading)
        recyclerView = rootView.findViewById(R.id.recycler_view)
        val mLayoutManager = LinearLayoutManager(context)
        mLayoutManager.reverseLayout = false
        mLayoutManager.stackFromEnd = false
        recyclerView.layoutManager = mLayoutManager
        recyclerView.itemAnimator = DefaultItemAnimator()
        textsearch.setText("")
        firestoreListener = firestoreDB!!
            .collection("flp")
            .whereEqualTo("kategori", "FORUM")
            .whereGreaterThanOrEqualTo("expired", Date())
            .addSnapshotListener(EventListener { documentSnapshots, e ->
                if (e != null) {
                    Log.e(TAG, "Listen failed!", e)
                    pbLoading.visibility = View.GONE
                    return@EventListener
                }

                val forumList = mutableListOf<Forum>()

```



```

        if (documentSnapshots != null) {
            for (doc in documentSnapshots) {
                val forum = doc.toObject(Forum::class.java)
                forum.id = doc.id
                val sdf1 = SimpleDateFormat("dd/MM/yyyy",
Locale.getDefault())
                val sdf2 = SimpleDateFormat("dd/MM/yyyy
HH:mm:ss", Locale.getDefault())
                if (doc.get("expired") != null) {
                    val exp = doc.get("expired") as Timestamp
                    forum.exps = sdf1.format(exp.toDate())
                }
                if (doc.get("date") != null) {
                    val date = doc.get("date") as Timestamp
                    forum.dates = sdf2.format(date.toDate())
                }
                if (doc.get("write") != null) {
                    val write = doc.get("write") as Timestamp
                    forum.writes = sdf1.format(write.toDate())
                }
                forumList.add(forum)
            }
            fun selector(p: Forum): String = p.dates.toString()
            forumList.sortByDescending {selector(it)}
            if (!forumList.isNullOrEmpty()) {
                context?.let {
                    mAdapter = ForumAdapter(forumList, it,
FirestoreDB!!)
                }
            }
            if (mAdapter != null) {
                recyclerView.adapter = mAdapter
                texttotal.text = "Total " + mAdapter!!.itemCount
            } else {
                texttotal.text = "Total 0"
            }
        }
        pbLoading.visibility = View.GONE
    })

    fab.setOnClickListener {
        val intent = Intent(this.activity, ForumActivity::class.java)
        intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
        intent.putExtra("kategori", "FORUM")
        intent.putExtra("create", "1")
        intent.putExtra("id", "")
        intent.putExtra("image_url", "")
        intent.putExtra("judul", "")
    }
}

```

```

        intent.putExtra("deskripsi", "")
        intent.putExtra("date", "")
        intent.putExtra("expired", "")
        intent.putExtra("uid", "")
        intent.putExtra("update", "1")
        startActivity(intent)
    }

    textsearch.addTextChangedListener(object : TextWatcher {

        override fun afterTextChanged(s: Editable?) {

        }

        override fun beforeTextChanged(s: CharSequence?, start: Int, count:
Int, after: Int) {

        }

        override fun onTextChanged(s: CharSequence?, start: Int, before: Int,
count: Int) {
            if (mAdapter != null) {
                mAdapter!!.getFilter().filter(s.toString())
                Run.after(1000, {
                    texttotal.text = "Total " + mAdapter!!.itemCount
                })
            } else {
                texttotal.text = "Total 0"
            }
        }
    })
    return rootView
}

override fun onDestroy() {
    super.onDestroy()
    if (firestoreListener != null)
        firestoreListener!!.remove()
}
}

```

### 7.5 InfoFragment2.kt

```
package com.unibba.traceralumni2019.fragment
```

```

import android.content.Intent
import android.os.Bundle
import android.text.Editable
import android.text.TextWatcher

```

```

import android.util.Log
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.EditText
import android.widget.ProgressBar
import android.widget.TextView
import androidx.annotation.Nullable
import androidx.fragment.app.Fragment
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import com.google.android.material.floatingactionbutton.FloatingActionButton
import com.google.firebase.Timestamp
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.activity.ForumActivity
import com.unibba.traceralumni2019.adapter.LokerAdapter
import com.unibba.traceralumni2019.model.Forum
import com.unibba.traceralumni2019.util.Run
import com.unibba.traceralumni2019.util.SessionManager
import java.text.SimpleDateFormat
import java.util.*

class InfoFragment2 : Fragment() {

    private val TAG = "InfoFragment2"
    private lateinit var textsearch: EditText
    private lateinit var texttotal: TextView
    private lateinit var fab: FloatingActionButton
    private lateinit var pbLoading: ProgressBar
    private lateinit var sessionManager: SessionManager
    private lateinit var recyclerView: RecyclerView
    private var mAdapter: LokerAdapter? = null
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null

    @Nullable
    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        val rootView: View = inflater.inflate(R.layout.fragment_info_flp, container,
false)
        firestoreDB = FirebaseFirestore.getInstance()

```

```

sessionManager = SessionManager(context!!)
sessionManager.setImage("")
textsearch = rootView.findViewById(R.id.textsearch)
texttotal = rootView.findViewById(R.id.texttotal)
fab = rootView.findViewById(R.id.fab)
pbLoading = rootView.findViewById(R.id.pbLoading)
recyclerView = rootView.findViewById(R.id.recycler_view)
val mLayoutManager = LinearLayoutManager(context)
mLayoutManager.reverseLayout = false
mLayoutManager.stackFromEnd = false
recyclerView.layoutManager = mLayoutManager
recyclerView.itemAnimator = DefaultItemAnimator()
textsearch.setText("")

firestoreListener = firestoreDB!!
    .collection("flp")
    .whereEqualTo("kategori", "LOKER")
    .whereGreaterThanOrEqualTo("expired", Date())
    .addSnapshotListener(EventListener { documentSnapshots, e ->
        if (e != null) {
            Log.e(TAG, "Listen failed!", e)
            pbLoading.visibility = View.GONE
            return@EventListener
        }

        val forumList = mutableListOf<Forum>()
        if (documentSnapshots != null) {
            for (doc in documentSnapshots) {
                val forum = doc.toObject(Forum::class.java)
                forum.id = doc.id
                val sdf1 = SimpleDateFormat("dd/MM/yyyy",
Locale.getDefault())
                val sdf2 = SimpleDateFormat("dd/MM/yyyy
HH:mm:ss", Locale.getDefault())
                if (doc.get("expired") != null) {
                    val exp = doc.get("expired") as Timestamp
                    forum.exps = sdf1.format(exp.toDate())
                }
                if (doc.get("date") != null) {
                    val date = doc.get("date") as Timestamp
                    forum.dates = sdf2.format(date.toDate())
                }
                if (doc.get("write") != null) {
                    val write = doc.get("write") as Timestamp
                    forum.writes = sdf1.format(write.toDate())
                }
                forumList.add(forum)
            }
        }
    })

```

```

        fun selector(p: Forum): String = p.dates.toString()
        forumList.sortByDescending {selector(it)}
        if (!forumList.isNullOrEmpty()) {
            context?.let {
                mAdapter = LokerAdapter(forumList, it,
firestoreDB!!)
            }
        }
        if (mAdapter != null) {
            recyclerView.adapter = mAdapter
            texttotal.text = "Total " + mAdapter!!.itemCount
        } else {
            texttotal.text = "Total 0"
        }
    }
    pbLoading.visibility = View.GONE
})

fab.setOnClickListener {
    val intent = Intent(this.activity, ForumActivity::class.java)
    intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
    intent.putExtra("kategori", "LOKER")
    intent.putExtra("create", "1")
    intent.putExtra("id", "")
    intent.putExtra("image_url", "")
    intent.putExtra("judul", "")
    intent.putExtra("deskripsi", "")
    intent.putExtra("date", "")
    intent.putExtra("expired", "")
    intent.putExtra("uid", "")
    intent.putExtra("update", "1")
    startActivity(intent)
}

textsearch.addTextChangedListener(object : TextWatcher {

    override fun afterTextChanged(s: Editable?) {

    }

    override fun beforeTextChanged(s: CharSequence?, start: Int, count:
Int, after: Int) {

    }

    override fun onTextChanged(s: CharSequence?, start: Int, before: Int,
count: Int) {
        if (mAdapter != null) {

```

```

        mAdapter!!..getFilter().filter(s.toString())
        Run.after(1000, {
            texttotal.text = "Total " + mAdapter!!..itemCount
        })
    } else {
        texttotal.text = "Total 0"
    }
}
})
return rootView
}

override fun onDestroy() {
    super.onDestroy()
    if (firestoreListener != null)
        firestoreListener!!..remove()
}
}
}

```

### 7.6 InfoFragment3.kt

```

package com.unibba.traceralumni2019.fragment

import android.content.Intent
import android.os.Bundle
import android.text.Editable
import android.text.TextWatcher
import android.util.Log
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.EditText
import android.widget.ProgressBar
import android.widget.TextView
import androidx.annotation.Nullable
import androidx.fragment.app.Fragment
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import com.google.android.material.floatingactionbutton.FloatingActionButton
import com.google.firebase.Timestamp
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.activity.ForumActivity
import com.unibba.traceralumni2019.adapter.PengumumanAdapter
import com.unibba.traceralumni2019.model.Forum

```

```

import com.unibba.traceralumni2019.util.Run
import com.unibba.traceralumni2019.util.SessionManager
import java.text.SimpleDateFormat
import java.util.*

class InfoFragment3 : Fragment() {

    private val TAG = "InfoFragment3"
    private lateinit var textsearch: EditText
    private lateinit var texttotal: TextView
    private lateinit var fab: FloatingActionButton
    private lateinit var pbLoading: ProgressBar
    private lateinit var sessionManager: SessionManager
    private lateinit var recyclerView: RecyclerView
    private var mAdapterter: PengumumanAdapter? = null
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null

    @Nullable
    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        val rootView: View = inflater.inflate(R.layout.fragment_info_flp, container,
false)

        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(context!!)
        sessionManager.setImage("")
        textsearch = rootView.findViewById(R.id.textsearch)
        texttotal = rootView.findViewById(R.id.texttotal)
        fab = rootView.findViewById(R.id.fab)
        pbLoading = rootView.findViewById(R.id.pbLoading)
        recyclerView = rootView.findViewById(R.id.recycler_view)
        val mLayoutManager = LinearLayoutManager(context)
        mLayoutManager.reverseLayout = false
        mLayoutManager.stackFromEnd = false
        recyclerView.layoutManager = mLayoutManager
        recyclerView.itemAnimator = DefaultItemAnimator()
        textsearch.setText("")

        firestoreListener = firestoreDB!!.collection("flp")
            .whereEqualTo("kategori", "PENGUMUMAN")
            .whereGreaterThanOrEqualTo("expired", Date())
            .addSnapshotListener(EventListener { documentSnapshots, e ->
                if (e != null) {
                    Log.e(TAG, "Listen failed!", e)
                    pbLoading.visibility = View.GONE
                }
            })
    }
}

```

```

        return@EventListener
    }

    val forumList = mutableListOf<Forum>()
    if (documentSnapshots != null) {
        for (doc in documentSnapshots) {
            val forum = doc.toObject(Forum::class.java)
            forum.id = doc.id
            val sdf1 = SimpleDateFormat("dd/MM/yyyy",
Locale.getDefault())
            val sdf2 = SimpleDateFormat("dd/MM/yyyy
HH:mm:ss", Locale.getDefault())
            if (doc.get("expired") != null) {
                val exp = doc.get("expired") as Timestamp
                forum.exps = sdf1.format(exp.toDate())
            }
            if (doc.get("date") != null) {
                val date = doc.get("date") as Timestamp
                forum.dates = sdf2.format(date.toDate())
            }
            if (doc.get("write") != null) {
                val write = doc.get("write") as Timestamp
                forum.writes = sdf1.format(write.toDate())
            }
            forumList.add(forum)
        }
        fun selector(p: Forum): String = p.dates.toString()
        forumList.sortByDescending {selector(it)}
        if (!forumList.isNullOrEmpty()) {
            context?.let {
                mAdapter = PengumumanAdapter(forumList, it,
firestoreDB!!)
            }
        }
        if (mAdapter != null) {
            recyclerView.adapter = mAdapter
            texttotal.text = "Total " + mAdapter!!.itemCount
        } else {
            texttotal.text = "Total 0"
        }
    }
    pbLoading.visibility = View.GONE
})

fab.setOnClickListener {
    val intent = Intent(this.activity, ForumActivity::class.java)
    intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
    intent.putExtra("kategori", "PENGUMUMAN")

```



```

        intent.putExtra("create", "1")
        intent.putExtra("id", "")
        intent.putExtra("image_url", "")
        intent.putExtra("judul", "")
        intent.putExtra("deskripsi", "")
        intent.putExtra("date", "")
        intent.putExtra("expired", "")
        intent.putExtra("uid", "")
        intent.putExtra("update", "1")
        startActivity(intent)
    }

    textsearch.addTextChangedListener(object : TextWatcher {

        override fun afterTextChanged(s: Editable?) {

        }

        override fun beforeTextChanged(s: CharSequence?, start: Int, count:
Int, after: Int) {

        }

        override fun onTextChanged(s: CharSequence?, start: Int, before: Int,
count: Int) {
            if (mAdapter != null) {
                mAdapter!!.getFilter().filter(s.toString())
                Run.after(1000, {
                    texttotal.text = "Total " + mAdapter!!.itemCount
                })
            } else {
                texttotal.text = "Total 0"
            }
        }
    })
    return rootView
}

override fun onDestroy() {
    super.onDestroy()
    if (firestoreListener != null)
        firestoreListener!!.remove()
}
}

```

## 7.7 InfoFragment4.kt

```
package com.unibba.traceralumni2019.fragment
```

```

import android.content.SharedPreferences
import android.os.Bundle
import android.util.Log
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.ProgressBar
import androidx.fragment.app.Fragment
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.DividerItemDecoration
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.adapter.AlumniAdapter
import com.unibba.traceralumni2019.model.Alumni
import com.unibba.traceralumni2019.util.MyDividerItemDecoration
import com.unibba.traceralumni2019.util.SessionManager

class InfoFragment4 : Fragment() {

    private val TAG = "InfoFragment4"
    private lateinit var prefs: SharedPreferences
    private lateinit var editor: SharedPreferences.Editor
    private lateinit var pbLoading: ProgressBar
    private lateinit var sessionManager: SessionManager
    private lateinit var recyclerView: RecyclerView
    private var mAdapter: AlumniAdapter? = null
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        val rootView: View = inflater.inflate(R.layout.fragment_info_list_alumni,
container, false)
        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(context!!)
        sessionManager.setImage("")
        pbLoading = rootView.findViewById(R.id.pbLoading)
        recyclerView = rootView.findViewById(R.id.recycler_view)
        recyclerView.layoutManager = LinearLayoutManager(context)
        recyclerView.itemAnimator = DefaultItemAnimator()
        recyclerView.addItemDecoration(MyDividerItemDecoration(context!!),

```

```
DividerItemDecoration.VERTICAL, 0))
```

```
pbLoading.visibility = View.VISIBLE
```

```
firestoreListener = firestoreDB!!.collection("alumni")
    .addSnapshotListener(EventListener { documentSnapshots, e ->
        if (e != null) {
            Log.e(TAG, "Listen failed!", e)
            pbLoading.visibility = View.GONE
            return@EventListener
        }
    })
```

```
var prodi = mutableListOf<String>()
var angkatan = mutableListOf<String>()
val alumniList = mutableListOf<Alumni>()
if (documentSnapshots != null) {
    for (doc in documentSnapshots) {
        if (doc.get("prodi") != null)
            prodi.add(doc.get("prodi").toString())
        if (doc.get("angkatan") != null)
            angkatan.add(doc.get("angkatan").toString())
    }
}
```

```
var prodi_ids = prodi.distinct().sorted()
var angkatan_ids = angkatan.distinct().sortedDescending()
var count: Int
for (doc1 in prodi_ids) {
}
for (doc2 in angkatan_ids) {
    count = 0
    for (doc3 in angkatan) {
        if (doc3.equals(doc2))
            count++
    }
    val list = Alumni(" " + doc2, " ", "Angkatan Tahun : " + doc2,
"Jumlah " + count + " Orang")
    alumniList.add(list)
}
if (!alumniList.isNullOrEmpty()) {
    context?.let {
        mAdapter = AlumniAdapter(alumniList, it,
firestoreDB!!)
    }
}
if (mAdapter != null)
    recyclerView.adapter = mAdapter
pbLoading.visibility = View.GONE
})
```

```

        return rootView
    }

    override fun onStop() {
        super.onStop()
        if (firestoreListener != null) {
            firestoreListener!!.remove()
            firestoreListener = null
        }
    }

    override fun onDestroy() {
        super.onDestroy()
        if (firestoreListener != null) {
            firestoreListener!!.remove()
            firestoreListener = null
        }
    }
}

```

## 7.8 InfoFragment5.kt

```
package com.unibba.traceralumni2019.fragment
```

```

import android.content.SharedPreferences
import android.os.Bundle
import android.util.Log
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.ProgressBar
import androidx.fragment.app.Fragment
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.DividerItemDecoration
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.adapter.AlumniAdapter
import com.unibba.traceralumni2019.model.Alumni
import com.unibba.traceralumni2019.util.MyDividerItemDecoration
import com.unibba.traceralumni2019.util.SessionManager

class InfoFragment5 : Fragment() {

```

```

private val TAG = "InfoFragment5"
private lateinit var prefs: SharedPreferences
private lateinit var editor: SharedPreferences.Editor
private lateinit var pbLoading: ProgressBar
private lateinit var sessionManager: SessionManager
private lateinit var recyclerView: RecyclerView
private var mAdapter: AlumniAdapter? = null
private var firestoreDB: FirebaseFirestore? = null
private var firestoreListener: ListenerRegistration? = null

override fun onCreateView(
    inflater: LayoutInflater,
    container: ViewGroup?,
    savedInstanceState: Bundle?
): View? {
    val rootView: View = inflater.inflate(R.layout.fragment_info_list_alumni,
container, false)
    firestoreDB = FirebaseFirestore.getInstance()
    sessionManager = SessionManager(context!!)
    sessionManager.setImage("")
    pbLoading = rootView.findViewById(R.id.pbLoading)
    recyclerView = rootView.findViewById(R.id.recycler_view)
    recyclerView.layoutManager = LinearLayoutManager(context)
    recyclerView.itemAnimator = DefaultItemAnimator()
    recyclerView.addItemDecoration(MyDividerItemDecoration(context!!,
DividerItemDecoration.VERTICAL, 0))

    pbLoading.visibility = View.VISIBLE

    firestoreListener = firestoreDB!!.collection("alumni")
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }

            var prodi = mutableListOf<String>()
            var angkatan = mutableListOf<String>()
            val alumniList = mutableListOf<Alumni>()
            if (documentSnapshots != null) {
                for (doc in documentSnapshots) {
                    if (doc.get("prodi") != null)
                        prodi.add(doc.get("prodi").toString())
                    if (doc.get("angkatan") != null)
                        angkatan.add(doc.get("angkatan").toString())
                }
            }
        })
}

```

```

        var prodi_ids = prodi.distinct().sorted()
        var angkatan_ids = angkatan.distinct().sortedDescending()
        var count: Int
        for (doc1 in prodi_ids) {
        }
        for (doc2 in angkatan_ids) {
            count = 0
            for (doc3 in angkatan) {
                if (doc3.equals(doc2))
                    count++
            }
            val list = Alumni(" " + doc2, " ", "Angkatan Tahun : " + doc2,
"Jumlah " + count + " Orang")
            alumniList.add(list)
        }
        if (!alumniList.isNullOrEmpty()) {
            context?.let {
                mAdapter = AlumniAdapter(alumniList, it,
firestoreDB!!)
            }
        }
        if (mAdapter != null)
            recyclerView.adapter = mAdapter
        pbLoading.visibility = View.GONE
    })

    return rootView
}

override fun onStop() {
    super.onStop()
    if (firestoreListener != null) {
        firestoreListener!!.remove()
        firestoreListener = null
    }
}

override fun onDestroy() {
    super.onDestroy()
    if (firestoreListener != null) {
        firestoreListener!!.remove()
        firestoreListener = null
    }
}

// fun listener(prodi: String, angkatan1: String, angkatan2: String) {
//     if (!prodi.equals("0") && !angkatan1.equals(""))
// && !angkatan2.equals("")) {

```

```

//          System.out.println("prodi=>" + prodi + "angkatan1=>" + angkatan1
+ "angkatan2=>" + angkatan2)
//          firestoreListener = firestoreDB!!
//          .collection("alumni")
//          .whereEqualTo("prodi", prodi)
//          .whereGreaterThan("angkatan", angkatan1)
//          .whereLessThan("angkatan", angkatan2)
////          .orderBy("nim", Query.Direction.ASCENDING)
//          .addSnapshotListener(EventListener { documentSnapshots, e ->
//              if (e != null) {
//                  Log.e(TAG, "Listen failed!", e)
//                  pbLoading.visibility = View.GONE
//                  return@EventListener
//              }
//
//              val alumniList = mutableListOf<Alumni>()
//
//              for (doc in documentSnapshots) {
//                  val list = doc.toObject(Alumni::class.java)
//                  list.id = doc.id
//                  alumniList.add(list)
//              }
//
//              if (!alumniList.isEmpty())
//                  mAdapter = AlumniAdapter(alumniList, context!!,
firestoreDB!!)
//
//              if (mAdapter != null)
//                  recyclerView.adapter = mAdapter
//                  pbLoading.visibility = View.GONE
//              })
//          } else if (!prodi.equals("0") && !angkatan1.equals("")) &&
angkatan2.equals("")) {
//          System.out.println("prodi=>" + prodi + "angkatan1=>" + angkatan1
+ "angkatan2=>" + angkatan2)
//          firestoreListener = firestoreDB!!
//          .collection("alumni")
//          .whereEqualTo("prodi", prodi)
//          .whereEqualTo("angkatan", angkatan1)
////          .orderBy("nim", Query.Direction.ASCENDING)
//          .addSnapshotListener(EventListener { documentSnapshots, e ->
//              if (e != null) {
//                  Log.e(TAG, "Listen failed!", e)
//                  pbLoading.visibility = View.GONE
//                  return@EventListener
//              }
//
//              val alumniList = mutableListOf<Alumni>()
//

```

```
//
//         for (doc in documentSnapshots) {
//             val list = doc.toObject(Alumni::class.java)
//             list.id = doc.id
//             alumniList.add(list)
//         }
//
//         if (!alumniList.isEmpty())
//             mAdapter = AlumniAdapter(alumniList, context!!,
// firestoreDB!!)
//
//         if (mAdapter != null)
//             recyclerView.adapter = mAdapter
//             pbLoading.visibility = View.GONE
//         })
//     } else if (!prodi.equals("0") && angkatan1.equals("") &&
// angkatan2.equals("")) {
//         System.out.println("prodi=>" + prodi + "angkatan1=>" + angkatan1
// + "angkatan2=>" + angkatan2)
//         firestoreListener = firestoreDB!!
//             .collection("alumni")
//             .whereEqualTo("prodi", prodi)
//             .orderBy("nim", Query.Direction.ASCENDING)
//             .addSnapshotListener(EventListener { documentSnapshots, e ->
//                 if (e != null) {
//                     Log.e(TAG, "Listen failed!", e)
//                     pbLoading.visibility = View.GONE
//                     return@EventListener
//                 }
//             })
//
//         val alumniList = mutableListOf<Alumni>()
//
//         for (doc in documentSnapshots) {
//             val list = doc.toObject(Alumni::class.java)
//             list.id = doc.id
//             alumniList.add(list)
//         }
//
//         if (!alumniList.isEmpty())
//             mAdapter = AlumniAdapter(alumniList, context!!,
// firestoreDB!!)
//
//         if (mAdapter != null)
//             recyclerView.adapter = mAdapter
//             pbLoading.visibility = View.GONE
//         })
//     } else if (prodi.equals("0") && !angkatan1.equals("")
// && !angkatan2.equals("")) {
//         System.out.println("prodi=>" + prodi + "angkatan1=>" + angkatan1
// + "angkatan2=>" + angkatan2)
//         firestoreListener = firestoreDB!!
```



```

//      .collection("alumni")
//      .whereGreaterThan("angkatan", angkatan1)
//      .whereLessThan("angkatan", angkatan2)
////      .orderBy("nim", Query.Direction.ASCENDING)
//      .addSnapshotListener(EventListener { documentSnapshots, e ->
//          if (e != null) {
//              Log.e(TAG, "Listen failed!", e)
//              pbLoading.visibility = View.GONE
//              return@EventListener
//          }
//
//          val alumniList = mutableListOf<Alumni>()
//
//          for (doc in documentSnapshots) {
//              val list = doc.toObject(Alumni::class.java)
//              list.id = doc.id
//              alumniList.add(list)
//          }
//
//          if (!alumniList.isEmpty())
//              mAdapter = AlumniAdapter(alumniList, context!!,
firestoreDB!!)
//          if (mAdapter != null)
//              recyclerView.adapter = mAdapter
//          pbLoading.visibility = View.GONE
//          })
//      } else if (prodi.equals("0") && !angkatan1.equals("") &&
angkatan2.equals("")) {
//          System.out.println("prodi=>" + prodi + "angkatan1=>" + angkatan1
+ "angkatan2=>" + angkatan2)
//          firestoreListener = firestoreDB!!
//          .collection("alumni")
//          .whereEqualTo("angkatan", angkatan1)
////          .orderBy("nim", Query.Direction.ASCENDING)
//          .addSnapshotListener(EventListener { documentSnapshots, e ->
//              if (e != null) {
//                  Log.e(TAG, "Listen failed!", e)
//                  pbLoading.visibility = View.GONE
//                  return@EventListener
//              }
//
//              val alumniList = mutableListOf<Alumni>()
//
//              for (doc in documentSnapshots) {
//                  val list = doc.toObject(Alumni::class.java)
//                  list.id = doc.id
//                  alumniList.add(list)
//              }

```

```

//
//                                if (!alumniList.isEmpty())
//                                    mAdapter = AlumniAdapter(alumniList, context!!,
firestoreDB!!)
//                                if (mAdapter != null)
//                                    recyclerView.adapter = mAdapter
//                                pbLoading.visibility = View.GONE
//                                })
//                                } else if (prodi.equals("0") && angkatan1.equals("")) &&
angkatan2.equals("")) {
//                                    System.out.println("prodi=>" + prodi + "angkatan1=>" + angkatan1
+ "angkatan2=>" + angkatan2)
//                                    firestoreListener = firestoreDB!!
//                                    .collection("alumni")
////                                    .orderBy("nim", Query.Direction.ASCENDING)
//                                    .addSnapshotListener(EventListener { documentSnapshots, e ->
//                                        if (e != null) {
//                                            Log.e(TAG, "Listen failed!", e)
//                                            pbLoading.visibility = View.GONE
//                                            return@EventListener
//                                        }
//                                    }
//
//                                    val alumniList = mutableListOf<Alumni>()
//
//                                    for (doc in documentSnapshots) {
//                                        val list = doc.toObject(Alumni::class.java)
//                                        list.id = doc.id
//                                        alumniList.add(list)
//                                    }
//
//                                    if (!alumniList.isEmpty())
//                                        mAdapter = AlumniAdapter(alumniList, context!!,
firestoreDB!!)
//                                    if (mAdapter != null)
//                                        recyclerView.adapter = mAdapter
//                                    pbLoading.visibility = View.GONE
//                                    })
//                                }
//                            }
}

```

### 7.9 LokasiFragment.kt

```
package com.unibba.traceralumni2019.fragment
```

```

import android.content.Context
import android.content.Context.LAYOUT_INFLATER_SERVICE
import android.content.Intent
import android.content.SharedPreferences

```

```

import android.os.Bundle
import android.util.Log
import android.view.*
import android.widget.*
import androidx.annotation.Nullable
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.app.AppCompatActivity
import androidx.appcompat.widget.Toolbar
import androidx.fragment.app.Fragment
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions
import com.google.android.gms.maps.CameraUpdateFactory
import com.google.android.gms.maps.GoogleMap
import com.google.android.gms.maps.MapView
import com.google.android.gms.maps.model.CameraPosition
import com.google.android.gms.maps.model.LatLng
import com.google.android.gms.maps.model.MarkerOptions
import com.google.firebase.Timestamp
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.firestore.Query
import com.toptoeche.searchablespinnerlibrary.SearchableSpinner
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.activity.ChatActivity
import com.unibba.traceralumni2019.util.SessionManager
import java.text.SimpleDateFormat

```

```

class LokasiFragment : Fragment() {

    private val TAG = "LokasiFragment"
    private lateinit var toolbar: Toolbar
    private lateinit var mapView: MapView
    private lateinit var googleMap: GoogleMap
    private lateinit var prefs: SharedPreferences
    private lateinit var editor: SharedPreferences.Editor
    private var Prodi: String = ""
    private var Tahun1: String = ""
    private var Tahun2: String = ""
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var sessionManager: SessionManager
    var nim_s = ""
    var list_prodi_id = ArrayList<String>()
    var list_prodi_nama = ArrayList<String>()

    fun LokasiFragment() {
        // Required empty public constructor
    }
}

```

```

    }

    @Nullable
    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        val rootView: View = inflater.inflate(R.layout.fragment_lokasi, container,
false)

        sessionManager = SessionManager(context!!)
        nim_s = sessionManager.getLogin().get("nim").toString()
        firestoreDB = FirebaseFirestore.getInstance()
        toolbar = rootView.findViewById(R.id.toolbar)
        toolbar.title = "Lokasi"
        (activity as AppCompatActivity).setSupportActionBar(toolbar)
        setHasOptionsMenu(true)
        selectFakultas()
        mMapView = rootView.findViewById(R.id.mapView)
        mMapView.onCreate(savedInstanceState)

        mMapView.onResume()
        mMapView.getMapAsync { mMap ->
            googleMap = mMap
            googleMap.uiSettings.isCompassEnabled = true
            googleMap.uiSettings.isMyLocationButtonEnabled = true
            googleMap.uiSettings.isRotateGesturesEnabled = true
            // For dropping a marker at a point on the Map
            val koordinat = LatLng(-7.0013117, 107.6184223)
            val cameraPosition =
CameraPosition.Builder().target(koordinat).zoom(7f).build()

            googleMap.animateCamera(CameraUpdateFactory.newCameraPosition(cameraPositi
on))

                search("", "", "")
        //
        googleMap.addMarker(MarkerOptions().position(koordinat).title("FTI
UNIBBA").snippet("Fakultas Teknologi Informasi\nUniversitas Bale Bandung"))
        //
            googleMap.setMinZoomPreference(4F)
            // For zooming automatically to the location of the marker
            googleMap.setOnInfoWindowClickListener { marker ->
                //
                    Toast.makeText(activity,
marker.title+"\n"+marker.snippet, Toast.LENGTH_SHORT).show()
                val inflater =
context!!.getSystemService(LAYOUT_INFLATER_SERVICE) as LayoutInflater
                val formsView = inflater.inflate(R.layout.dialog_userinfo, null,
false)

                    val title = marker.title

```

```

val snippet = marker.snippet
val s1 = title.split(" ")[0].replace("[", "", false)
val s2 = title.split(" ")[1].replace("[", "", false)
val s3 = snippet.split("\n")[0]
val s4 = snippet.split("\n")[1]

var image_profil: ImageView
var kirim_pesan: ImageView
var nim: TextView
var nama: TextView
var prodi: TextView
var angkatan: TextView

image_profil = formsView.findViewById(R.id.image_profil)
kirim_pesan = formsView.findViewById(R.id.kirim_pesan)
nim = formsView.findViewById(R.id.textNim)
nama = formsView.findViewById(R.id.textNama)
prodi = formsView.findViewById(R.id.textProdi)
angkatan = formsView.findViewById(R.id.textAngkatan)

firestoreListener = firestoreDB!!.collection("alumni")
    .document(s1)
    .addSnapshotListener(EventListener { documentSnapshots, e
->
        if (e != null) {
            Log.e(TAG, "Listen failed!", e)
//
            pbLoading.visibility = View.GONE
            return@EventListener
        }
        val image_url =
documentSnapshots?.get("image_url").toString()
        context?.let {
            Glide.with(it).load(image_url)
                .apply(
                    RequestOptions
                        .circleCrop()
                        .centerCrop()
                        .error(R.drawable.ic_user)
                        .placeholder(R.drawable.ic_user)
                )
                .apply(RequestOptions.circleCropTransform()
)
                .into(image_profil)
        }
        nim.text = "Nim : " + s1
        nama.text = "Nama : " + s2
        prodi.text = s3
        angkatan.text = s4

```

```

        kirim_pesan.setOnClickListener {
            if (!nim_s.equals(s1))
                user(s1)
        }
    })

    val builder = AlertDialog.Builder(context!!)
    builder.setTitle("Informasi")
    builder.setView(formsView)
    builder.show()
}
}
return rootView
}

fun user(nims: String) {
    firestoreDB!!.collection("users")
        .document(nims)
        .get()
        .addOnSuccessListener { documentSnapshots ->
            var uid = ""
            var nama = ""
            var tentang = ""
            var last_seen = ""
            var token = ""
            var akses = ""
            var image_url = ""

            if (documentSnapshots != null) {
                val document = documentSnapshots
                if (document.get("nim") != null)
                    uid = document.get("nim").toString()
                if (document.get("nama") != null)
                    nama = document.get("nama").toString()
                if (document.get("tentang") != null)
                    tentang = document.get("tentang").toString()
                if (document.get("last_seen") != null) {
                    val sdf = SimpleDateFormat("dd/MM/yy hh:mm")
                    val last_seens = document.get("last_seen") as
Timestamp
                    last_seen = sdf.format(last_seens.toDate())
                }
                if (document.get("token") != null)
                    token = document.get("token").toString()
                if (document.get("akses") != null)
                    akses = document.get("akses").toString()
                if (document.get("image_url") != null)
                    image_url = document.get("image_url").toString()
            }
        }
}

```

```

        Chat(
            "" + nim_s,
            "" + uid,
            "" + nama,
            "" + tentang,
            "" + last_seen,
            "" + token,
            "" + akses,
            "" + image_url
        )
    }
}

fun Chat(
    nims: String,
    uid: String,
    nama: String,
    tentang: String,
    last_seen: String,
    token: String,
    akses: String,
    image_url: String
) {
    firestoreDB!!.collection("chat")
        .whereArrayContains("userid", nims)
        .get()
        .addOnCompleteListener { task ->
            var id = ""
            var new = false
            if (task.isSuccessful) {
                val document = task.result
                if (document != null) {
                    for (doc in document) {
                        if (doc.get("userid") != null) {
                            val userid = doc.get("userid") as
ArrayList<String>

                            userid.remove(nims)
                            if (userid[0].equals(uid)) {
                                id = doc.id
                                new = false
                                break
                            }
                        }
                    }
                }
            }
        }
}

```

```

        if (id.equals("")) {
            id = uid + "_" + nims
            new = true
        }
    } else {
        if (id.equals("")) {
            id = uid + "_" + nims
            new = true
        }
    }
    if (!nims.equals(uid)) {
        val intent = Intent(context, ChatActivity::class.java)
        intent.putExtra("id", id)
        intent.putExtra("uid", uid)
        intent.putExtra("nama", nama)
        intent.putExtra("tentang", tentang)
        intent.putExtra("last_seen", last_seen)
        intent.putExtra("token", token)
        intent.putExtra("akses", akses)
        intent.putExtra("image_url", image_url)
        intent.putExtra("new", new)
        intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK)
        context!!.startActivity(intent)
        System.out.println("id=>" + id)
    }
}

}

fun search(prodi: String, t1: String, t2: String) {
    Log.d("search=>", "" + prodi + ", " + t1 + ", " + t2)
    var fDB = firestoreDB!!.collection("alumni")
    var fQuery: Query
    googleMap.clear()
    val koordinat = LatLng(-7.0013117, 107.6184223)
    val cameraPosition =
        CameraPosition.Builder().target(koordinat).zoom(7f).build()

    googleMap.animateCamera(CameraUpdateFactory.newCameraPosition(cameraPosition))

    if (prodi.equals("") && !t1.equals("") && t2.equals("")) {
        fQuery = fDB.whereEqualTo("angkatan", t1.toInt())
    } else if (prodi.equals("") && !t1.equals("") && !t2.equals("")) {
        fQuery =
            fDB.whereGreaterThanOrEqualTo("angkatan",
                t1.toInt()).whereLessThanOrEqualTo("angkatan", t2.toInt())
    } else if (!prodi.equals("") && t1.equals("") && t2.equals("")) {
        fQuery = fDB.whereGreaterThanOrEqualTo("prodi", prodi)
    }
}

```



```

        } else if (!prodi.equals("") && !t1.equals("") && t2.equals("")) {
            fQuery = fDB.whereEqualTo("prodi",
prodi).whereEqualTo("angkatan", t1.toInt())
        } else if (!prodi.equals("") && !t1.equals("") && !t2.equals("")) {
            fQuery = fDB.whereEqualTo("prodi",
prodi).whereGreaterThan("angkatan", t1.toInt())
                .whereLessThan("angkatan", t2.toInt())
        } else {
            fQuery = fDB
        }
        firestoreListener = fQuery
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }
            if (documentSnapshots != null) {
                for (doc in documentSnapshots) {
                    val prodi = doc.data.get("prodi").toString()
                    var ps = ""
                    if (list_prodi_id.indexOf(prodi) >= 0)
                        ps = list_prodi_nama[list_prodi_id.indexOf(prodi)]
                    val lat =
doc.data.get("latitude").toString().toDoubleOrNull()
                    val long =
doc.data.get("longitude").toString().toDoubleOrNull()
                    val title = "[" + doc.data.get("nim").toString() + "]" +
doc.data.get("nama").toString()
                    val snippet = "Program Studi : " + ps + "\nAngkatan : " +
doc.data.get("angkatan").toString()
                    Log.d("latlong=>", lat.toString() + " , " +
long.toString())

                    if (lat != null && long != null) {
                        addMarker(lat, long, title, snippet)
                    }
                }
            }
            pbLoading.visibility = View.GONE
        })
    }

    fun addMarker(latitude: Double, longitude: Double, title: String, snippet: String)
    {
        var koordinat: LatLng
        koordinat = LatLng(latitude, longitude)
        googleMap.addMarker(
            MarkerOptions()

```

```

                .position(koordinat)
                .title(title)
                .snippet(snippet)
                .icon(BitmapDescriptorFactory.fromResource(R.drawable.
//
profil))
            )
        }

        override fun onDestroy() {
            super.onDestroy()
            if (firestoreListener != null)
                firestoreListener!!.remove()
        }

        override fun onCreateOptionsMenu(menu: Menu, inflater: MenuInflater) {
            inflater.inflate(R.menu.lokasi_menu, menu)
            super.onCreateOptionsMenu(menu, inflater)
        }

        override fun onOptionsItemSelected(item: MenuItem): Boolean {
            when (item.itemId) {
                R.id.lokasi_cari -> {

                    val inflater =
activity!!.getSystemService(LAYOUT_INFLATER_SERVICE) as LayoutInflater
                    val formsView =
inflater.inflate(R.layout.dialog_prodi_angkatan_search, null, false)

                    var prodi: SearchableSpinner
                    var textTahun1: EditText
                    var textTahun2: EditText
                    var rb1: RadioButton
                    var rb2: RadioButton
                    var rb3: RadioButton
                    prodi = formsView.findViewById(R.id.prodi)
                    textTahun1 = formsView.findViewById(R.id.textTahun1)
                    textTahun2 = formsView.findViewById(R.id.textTahun2)
                    textTahun2 = formsView.findViewById(R.id.textTahun2)
                    rb1 = formsView.findViewById(R.id.radioButton1)
                    rb2 = formsView.findViewById(R.id.radioButton2)
                    rb3 = formsView.findViewById(R.id.radioButton3)

//                    val list = arrayOf("Tampilkan Semua", "Teknik Informatika",
"Sistem Informasi")
//                    val AdapterList = ArrayAdapter(
//                        context,
//                        R.layout.support_simple_spinner_dropdown_item, list
//                    )

```

```

//
AdapterList.setDropDownViewResource(R.layout.support_simple_spinner_dropdown_item)
//
        prodi.adapter = AdapterList
// Initializing an ArrayAdapter
context?.let {
    val adapter = ArrayAdapter(
        context, // Context
        android.R.layout.simple_spinner_item, // Layout
        list_prodi_nama // Array
    )

adapter.setDropDownViewResource(android.R.layout.simple_dropdown_item_1line)
        prodi.adapter = adapter
    }
//pencarian
prefs = activity!!.getPreferences(Context.MODE_PRIVATE)
editor = prefs.edit()
prodi.setSelection(prefs.getInt("prodi", 0))
rb1.isChecked = prefs.getBoolean("rb1", true)
rb2.isChecked = prefs.getBoolean("rb2", false)
rb3.isChecked = prefs.getBoolean("rb3", false)
textTahun1.setText(prefs.getString("tahun1", ""))
textTahun2.setText(prefs.getString("tahun2", ""))
Prodi = list_prodi_id[prodi.selectedItemPosition]
Tahun1 = textTahun1.text.toString()
Tahun2 = textTahun2.text.toString()

if (rb1.isChecked == true) {
    textTahun1.setText("")
    textTahun2.setText("")
    textTahun1.visibility = View.GONE
    textTahun2.visibility = View.GONE
} else if (rb2.isChecked == true) {
    textTahun2.setText("")
    textTahun1.visibility = View.VISIBLE
    textTahun2.visibility = View.GONE
} else if (rb3.isChecked == true) {
    textTahun1.visibility = View.VISIBLE
    textTahun2.visibility = View.VISIBLE
}

rb1.setOnClickListener {
    textTahun1.setText("")
    textTahun2.setText("")
    textTahun1.visibility = View.GONE
    textTahun2.visibility = View.GONE
}

```

```

        rb2.setOnClickListener {
            textTahun2.setText("")
            textTahun1.visibility = View.VISIBLE
            textTahun2.visibility = View.GONE
        }
        rb3.setOnClickListener {
            textTahun1.visibility = View.VISIBLE
            textTahun2.visibility = View.VISIBLE
        }

        val builder = AlertDialog.Builder(context!!)
        builder.setTitle("Cari Berdasarkan")
        builder.setView(formsView)
        builder.setPositiveButton("Kembali", { dialog, which -> })
        builder.setNegativeButton("Cari", { dialog, which ->
            if (rb1.isChecked == true) {
                textTahun1.setText("")
                textTahun2.setText("")
                textTahun1.visibility = View.GONE
                textTahun2.visibility = View.GONE
            } else if (rb2.isChecked == true) {
                textTahun2.setText("")
                textTahun1.visibility = View.VISIBLE
                textTahun2.visibility = View.GONE
            } else if (rb3.isChecked == true) {
                textTahun1.visibility = View.VISIBLE
                textTahun2.visibility = View.VISIBLE
            }
            editor.putInt("prodi", prodi.selectedItemPosition)
            editor.putBoolean("rb1", rb1.isChecked)
            editor.putBoolean("rb2", rb2.isChecked)
            editor.putBoolean("rb3", rb3.isChecked)
            editor.putString("tahun1", textTahun1.text.toString())
            editor.putString("tahun2", textTahun2.text.toString())
            editor.apply()
            Prodi = list_prodi_id[prodi.selectedItemPosition]
            Tahun1 = textTahun1.text.toString()
            Tahun2 = textTahun2.text.toString()
            search(Prodi, Tahun1, Tahun2)
        })
        builder.show()
    }
}
return super.onOptionsItemSelected(item)
}

fun selectFakultas() {
    list_prodi_id.clear()

```

```

        list_prodi_nama.clear()
        list_prodi_id.add("")
        list_prodi_nama.add("Tampilkan Semua")
        firestoreDB!!
            .collection("fakultas")
            .get()
            .addOnSuccessListener { task ->
                if (task != null) {
                    for (doc in task) {
                        if (doc.get("prodi") != null) {
                            val prodis = doc.get("prodi") as HashMap<String,
Any>
                                for (docs in prodis) {
                                    list_prodi_id.add(docs.key)
                                    list_prodi_nama.add(docs.value.toString())
                                }
                            }
                        }
                    }
                }
            }

        fun Boolean.toInt(): Int {
            return if (this == true) 1 else 0
        }
    }
}

```

#### 7.10 PengelolaanUserFragment1.kt

```

package com.unibba.traceralumni2019.fragment

import android.annotation.SuppressLint
import android.content.Context
import android.os.Bundle
import android.text.Editable
import android.text.TextWatcher
import android.util.Log
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.EditText
import android.widget.ProgressBar
import android.widget.TextView
import androidx.appcompat.app.AlertDialog
import androidx.fragment.app.Fragment
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import com.google.android.material.floatingactionbutton.FloatingActionButton

```

```

import com.google.firebase.Timestamp
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.firestore.Query
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.adapter.UserRegistrasiAdapter
import com.unibba.traceralumni2019.model.UserRegistrasi
import com.unibba.traceralumni2019.util.Run
import com.unibba.traceralumni2019.util.SessionManager
import java.text.SimpleDateFormat
import java.util.*

class PengelolaanUserFragment1 : Fragment() {

    private val TAG = "InfoFragment1"
    private lateinit var textsearch: EditText
    private lateinit var texttotal: TextView
    private lateinit var fab: FloatingActionButton
    private lateinit var pbLoading: ProgressBar
    private lateinit var sessionManager: SessionManager
    private lateinit var recyclerView: RecyclerView
    private var mAdapter: UserRegistrasiAdapter? = null
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null

    @SuppressWarnings("RestrictedApi")
    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        super.onCreate(savedInstanceState)
        val rootView: View = inflater.inflate(R.layout.fragment_pengelolaan_user,
container, false)
        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(context!!)
        sessionManager.setImage("")
        textsearch = rootView.findViewById(R.id.textsearch)
        texttotal = rootView.findViewById(R.id.texttotal)
        fab = rootView.findViewById(R.id.fab)
        pbLoading = rootView.findViewById(R.id.pbLoading)
        recyclerView = rootView.findViewById(R.id.recycler_view)
        val layoutManager = LinearLayoutManager(context)
        recyclerView.layoutManager = layoutManager
        recyclerView.itemAnimator = DefaultItemAnimator()
        fab.visibility = View.GONE
    }
}

```

```

        firestoreListener = firestoreDB!!.collection("users_register")
            .whereEqualTo("validasi", 0)
            .orderBy("tanggal", Query.Direction.DESCEDING)
            .addSnapshotListener(EventListener { documentSnapshots, e ->
                if (e != null) {
                    Log.e(TAG, "Listen failed!", e)
                    return@EventListener
                }

                val list = mutableListOf<UserRegistrasi>()
                if (documentSnapshots != null) {
                    for (doc in documentSnapshots) {
                        val user = doc.toObject(UserRegistrasi::class.java)
                        user.id = doc.id
                        if (doc.get("tanggal") != null) {
                            val sdf = SimpleDateFormat("dd-MM-yyyy
HH:mm:ss", Locale.getDefault())
                            val tanggal = doc.get("tanggal") as Timestamp
                            user.tgl = sdf.format(tanggal.toDate())
                        }
                        if (doc.get("validasi").toString().equals("0"))
                            list.add(user)
                    }
                    if (!list.isEmpty()) {
                        context?.let {
                            mAdapter = UserRegistrasiAdapter(list, context!!,
firestoreDB!!)
                        }
                    }
                    if (mAdapter != null) {
                        recyclerView.adapter = mAdapter
                        texttotal.text = "Total " + mAdapter!!.itemCount
                    } else {
                        texttotal.text = "Total 0"
                    }
                }
            })
        textsearch.addTextChangedListener(object : TextWatcher {

            override fun afterTextChanged(s: Editable?) {

            }
            override fun beforeTextChanged(s: CharSequence?, start: Int, count:
Int, after: Int) {

            }
            override fun onTextChanged(s: CharSequence?, start: Int, before: Int,
count: Int) {

```

```

        if (mAdapter != null) {
            mAdapter!!.getFilter().filter(s.toString())
            Run.after(1000, {
                texttotal.text = "Total " + mAdapter!!.itemCount
            })
        } else {
            texttotal.text = "Total 0"
        }
    }
})
return rootView
}

override fun onDestroy() {
    super.onDestroy()
    if (firestoreListener != null)
        firestoreListener!!.remove()
}

fun dialog() {
    val inflater =
context!!.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
    val formsView = inflater.inflate(R.layout.dialog_pengelolaan_user, null,
false)
    var nim: EditText
    var nama: EditText
    var email: EditText
    var pass1: EditText
    var pass2: EditText

    //      nim = formsView.findViewById(R.id.textNim)
    //      nama = formsView.findViewById(R.id.textNama)
    //      email = formsView.findViewById(R.id.textEmail)
    //      pass1 = formsView.findViewById(R.id.inputPassword1)
    //      pass2 = formsView.findViewById(R.id.inputPassword2)

    val builder = AlertDialog.Builder(context!!)
    builder.setTitle("Pencarian")
    builder.setView(formsView)
    builder.show()
}
}

```

#### 7.11PengelolaanUserFragment2.kt

```
package com.unibba.traceralumni2019.fragment
```

```
import android.annotation.SuppressLint
```



```

import android.content.Context
import android.os.Bundle
import android.text.Editable
import android.text.TextUtils
import android.text.TextWatcher
import android.util.Log
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.*
import androidx.appcompat.app.AlertDialog
import androidx.fragment.app.Fragment
import androidx.recyclerview.widget.DefaultItemAnimator
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import com.google.android.material.floatingactionbutton.FloatingActionButton
import com.google.firebase.Timestamp
import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.firestore.EventListener
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.ListenerRegistration
import com.google.firebase.firestore.Query
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.adapter.UsersAdapter
import com.unibba.traceralumni2019.model.Users
import com.unibba.traceralumni2019.util.Run
import com.unibba.traceralumni2019.util.SessionManager
import java.text.SimpleDateFormat
import java.util.*
import kotlin.collections.HashMap

```

```

class PengelolaanUserFragment2 : Fragment() {

```

```

    private val TAG = "PengelolaanUserFragment2"
    private lateinit var textsearch: EditText
    private lateinit var texttotal: TextView
    private lateinit var fab: FloatingActionButton
    private lateinit var pbLoading: ProgressBar
    private lateinit var sessionManager: SessionManager
    private lateinit var recyclerView: RecyclerView
    private var mAdapter: UsersAdapter? = null
    private var firestoreDB: FirebaseFirestore? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var auth: FirebaseAuth

```

```

    @SuppressWarnings("LongLogTag")
    override fun onCreateView(
        inflater: LayoutInflater,

```

```

        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        super.onCreate(savedInstanceState)
        val rootView: View = inflater.inflate(R.layout.fragment_pengelolaan_user,
container, false)
        firestoreDB = FirebaseFirestore.getInstance()
        auth = FirebaseAuth.getInstance()
        sessionManager = SessionManager(context!!)
        textsearch = rootView.findViewById(R.id.textsearch)
        texttotal = rootView.findViewById(R.id.texttotal)
        fab = rootView.findViewById(R.id.fab)
        pbLoading = rootView.findViewById(R.id.pbLoading)
        recyclerView = rootView.findViewById(R.id.recycler_view)
        val layoutManager = LinearLayoutManager(context)
        recyclerView.layoutManager = layoutManager
        recyclerView.itemAnimator = DefaultItemAnimator()

        fab.setOnClickListener {
            dialog()
        }

        var fQuery: Query
        var Fdb = firestoreDB!!.collection("users")
        if (sessionManager.getPosition() == 1) {
            fQuery = Fdb.whereEqualTo("akses", 0)
            sessionManager.setPosition(0)
        } else if (sessionManager.getPosition() == 2) {
            fQuery = Fdb.whereEqualTo("akses", 1)
            sessionManager.setPosition(0)
        } else {
            fQuery = Fdb
        }

        firestoreListener = fQuery
            .orderBy("nama", Query.Direction.ASCENDING)
            .addSnapshotListener(EventListener { documentSnapshots, e ->
                if (e != null) {
                    Log.e(TAG, "Listen failed!", e)
                    return@EventListener
                }

                val list = mutableListOf<Users>()

                if (documentSnapshots != null) {
                    for (doc in documentSnapshots) {
                        val user = doc.toObject(Users::class.java)
                        user.id = doc.id
                    }
                }
            })
    }

```

```

        if (doc.get("date_register") != null) {
            val sdf = SimpleDateFormat("dd-MM-yyyy
HH:mm:ss", Locale.getDefault())
            val date_register = doc.get("date_register") as
Timestamp
            user.reg = sdf.format(date_register.toDate())
        }
        if (doc.get("last_seen") != null) {
            val sdf = SimpleDateFormat("dd-MM-yyyy
HH:mm:ss", Locale.getDefault())
            val last_seen = doc.get("last_seen") as Timestamp
            user.last = sdf.format(last_seen.toDate())
        }
        if (doc.get("akses") != null) {
            if (doc.get("akses").toString().toInt() == 0){
                user.hak_akses = "Alumni"
            } else {
                user.hak_akses = "Admin"
            }
        }
        list.add(user)
    }
    if (!list.isEmpty()) {
        context?.let {
            mAdapter = UsersAdapter(list, it, firestoreDB!!)
        }
    }
    if (mAdapter != null) {
        recyclerView.adapter = mAdapter
        texttotal.text = "Total " + mAdapter!!.itemCount
    } else {
        texttotal.text = "Total 0"
    }
}
})
textsearch.addTextChangedListener(object : TextWatcher {

    override fun afterTextChanged(s: Editable?) {

    }

    override fun beforeTextChanged(s: CharSequence?, start: Int, count:
Int, after: Int) {

    }

    override fun onTextChanged(s: CharSequence?, start: Int, before: Int,
count: Int) {

```

```

        if (mAdapter != null) {
            mAdapter!!.getFilter().filter(s.toString())
            Run.after(1000, {
                texttotal.text = "Total " + mAdapter!!.itemCount
            })
        } else {
            texttotal.text = "Total 0"
        }
    }
})
return rootView
}

override fun onDestroy() {
    super.onDestroy()
    if (firestoreListener != null)
        firestoreListener!!.remove()
}

@SuppressLint("LongLogTag")
fun dialog() {
    val inflater =
context!!.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
    val formsView = inflater.inflate(R.layout.dialog_pengelolaan_user, null,
false)

    var nim: EditText
    var nama: EditText
    var email: EditText
    var pass1: EditText
    var pass2: EditText
    var akses: Spinner
    var btnsimpan: Button

    nim = formsView.findViewById(R.id.textNim)
    nama = formsView.findViewById(R.id.textNama)
    email = formsView.findViewById(R.id.textEmail)
    pass1 = formsView.findViewById(R.id.inputPassword1)
    pass2 = formsView.findViewById(R.id.inputPassword2)
    akses = formsView.findViewById(R.id.hak_akses)
    btnsimpan = formsView.findViewById(R.id.btnSimpan)
    val builder = AlertDialog.Builder(context!!)
    val dialog = builder.create()
    dialog.setTitle("Tambah Users")
    dialog.setView(formsView)
    dialog.show()
    btnsimpan.setOnClickListener {
        if (TextUtils.isEmpty(nim.text.toString())) {

```

```

        Toast.makeText(context!!, "Nim tidak boleh kosong!!!",
Toast.LENGTH_LONG).show()
        nim.requestFocus()
    } else if (TextUtils.isEmpty(nama.text.toString())) {
        Toast.makeText(context!!, "Nama tidak boleh kosong!!!",
Toast.LENGTH_LONG).show()
        nama.requestFocus()
    } else if (TextUtils.isEmpty(email.text.toString())) {
        Toast.makeText(context!!, "Email tidak boleh kosong!!!",
Toast.LENGTH_LONG).show()
        email.requestFocus()
    } else if (isValidEmail(email.text.toString()) == false) {
        Toast.makeText(context!!, "Email salah!!!",
Toast.LENGTH_LONG).show()
        email.requestFocus()
    } else if (!pass1.text.toString().equals(pass2.text.toString())) {
        Toast.makeText(context!!, "Password tidak sama!!!",
Toast.LENGTH_LONG).show()
        pass1.requestFocus()
    } else if (pass1.text.toString().length < 6) {
        Toast.makeText(context!!, "Password harus 6 karakter!!!",
Toast.LENGTH_LONG).show()
        pass1.requestFocus()
    } else {
        auth.createUserWithEmailAndPassword(
            email.text.toString(),
            pass1.text.toString()
        )
        .addOnCompleteListener { task ->
            if (task.isSuccessful) {
                // Sign in success, update UI with the signed-in
                user's information
                Log.d(TAG, "createUserWithEmail:success")
                if (akses.selectedItemPosition == 0) {
                    val data = HashMap<String, Any>()
                    data.put("nim",
nim.text.toString().toUpperCase())
                    data.put("nama",
nama.text.toString().toUpperCase())
                    data.put("email", email.text.toString())
                    firestoreDB!!.collection("alumni")
                        .document(nim.text.toString().toUpperCase()
se())
                        .set(data)
                }
                val data = HashMap<String, Any>()
                data.put("nim", nim.text.toString().toUpperCase())
                data.put("nama",

```

```

nama.text.toString().toUpperCase())
                data.put("email", email.text.toString())
                data.put("akses", akses.selectedItemPosition)
                firestoreDB!!.collection("users")
                    .document(nim.text.toString().toUpperCase())
                    .set(data)
            } else {
                Log.d(TAG, "createUserWithEmail:sudah ada
user")
            }
        }
        dialog.dismiss()
    }
}

fun isValidEmail(target: CharSequence): Boolean {
    return !TextUtils.isEmpty(target) &&
    android.util.Patterns.EMAIL_ADDRESS.matcher(target).matches()
}
}

```

#### 7.12 ProfilFragment.kt

```

package com.unibba.traceralumni2019.fragment

```

```

import android.Manifest
import android.annotation.SuppressLint
import android.app.Activity.RESULT_OK
import android.content.Context
import android.content.Intent
import android.graphics.Bitmap
import android.graphics.BitmapFactory
import android.location.Location
import android.net.Uri
import android.os.Bundle
import android.provider.MediaStore
import android.provider.Settings
import android.text.Editable
import android.text.InputType
import android.text.TextUtils
import android.text.TextWatcher
import android.util.Log
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.*
import androidx.annotation.Nullable

```

```

import androidx.appcompat.app.AlertDialog
import androidx.appcompat.app.AppCompatActivity
import androidx.appcompat.widget.Toolbar
import androidx.coordinatorlayout.widget.CoordinatorLayout
import androidx.core.graphics.drawable.RoundedBitmapDrawableFactory
import androidx.fragment.app.Fragment
import com.bumptech.glide.Glide
import com.bumptech.glide.request.RequestOptions
import com.github.babedev.dexter.dsl.runtimePermission
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.MapView
import com.google.android.gms.maps.MapsInitializer
import com.google.android.gms.maps.model.CameraPosition
import com.google.android.gms.maps.model.LatLng
import com.google.android.gms.maps.model.MarkerOptions
import com.google.android.material.floatingactionbutton.FloatingActionButton
import com.google.android.material.textfield.TextInputEditText
import com.google.android.material.textfield.TextInputLayout
import com.google.firebase.auth.FirebaseAuth
import com.google.firebase.firestore.*
import com.google.firebase.storage.FirebaseStorage
import com.google.firebase.storage.StorageReference
import com.toptoeche.searchablespinnerlibrary.SearchableSpinner
import com.unibba.traceralumni2019.BuildConfig
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.activity.ImageviewActivity
import com.unibba.traceralumni2019.activity.ProfilPasswordActivity
import com.unibba.traceralumni2019.activity.Tracerstudy0Activity
import com.unibba.traceralumni2019.util.SessionManager
import kotlinx.android.synthetic.main.fragment_profil.*
import java.io.ByteArrayOutputStream
import java.io.IOException

```

```

class ProfilFragment : Fragment() {

```

```

    private val TAG = "ProfilFragment"
    private var firestoreDB: FirebaseFirestore? = null
    private var storageReference: StorageReference? = null
    private var firestoreListener: ListenerRegistration? = null
    private lateinit var auth: FirebaseAuth
    private lateinit var sessionManager: SessionManager
    private lateinit var root_layout: CoordinatorLayout
    private lateinit var rl1: RelativeLayout
    private lateinit var rl2: RelativeLayout
    private lateinit var rl3: RelativeLayout
    private lateinit var rl4: RelativeLayout

```

```
private lateinit var rl5: RelativeLayout
private lateinit var rl6: RelativeLayout
private lateinit var toolbar: Toolbar
private lateinit var scrollView: ScrollView
private lateinit var imageview: ImageView
private lateinit var fab: FloatingActionButton
private lateinit var pbLoading: ProgressBar
private lateinit var textnimlayout: TextInputLayout
private lateinit var textnim: TextInputEditText
private lateinit var textnamalayout: TextInputLayout
private lateinit var textnama: TextInputEditText
private lateinit var textprodilayout: TextInputLayout
private lateinit var textprodi: TextInputEditText
private lateinit var textangkatanlayout: TextInputLayout
private lateinit var textangkatan: TextInputEditText
private lateinit var textnohplayout: TextInputLayout
private lateinit var textnohp: TextInputEditText
private lateinit var textemallayout: TextInputLayout
private lateinit var textemail: TextInputEditText
private lateinit var textalamatlayout: TextInputLayout
private lateinit var textalamat: TextInputEditText
private lateinit var textlokalayout: TextInputLayout
private lateinit var textlokasi: TextInputEditText
private lateinit var textnamainstansilayout: TextInputLayout
private lateinit var textnamainstansi: TextInputEditText
private lateinit var textalamatinstansilayout: TextInputLayout
private lateinit var textalamatinstansi: TextInputEditText
private lateinit var textnotlpinstansilayout: TextInputLayout
private lateinit var textnotlpinstansi: TextInputEditText
private lateinit var textjabatanlayout: TextInputLayout
private lateinit var textjabatan: TextInputEditText
private val GALLERY = 1
private val CAMERA = 2
var nim_s = ""
var akses_s = ""
var image_url = ""
var nama = "-"
var alamat = "-"
var email = "-"
var nohp = "-"
var lat = "-"
var long = "-"
var prodi_id = "-"
var angkatan = "-"
var s1 = "-"
var s2 = "-"
var s3 = "-"
var s4 = "-"
```



```

var fkl = HashMap<String, Any>()

@Nullable
override fun onCreateView(
    inflater: LayoutInflater,
    container: ViewGroup?,
    savedInstanceState: Bundle?
): View? {
    val rootView: View = inflater.inflate(R.layout.fragment_profil, container,
false)

    sessionManager = SessionManager(context!!)
    nim_s = sessionManager.getLogin().get("nim").toString()
    akses_s = sessionManager.getLogin().get("akses").toString()
    firestoreDB = FirebaseFirestore.getInstance()
    auth = FirebaseAuth.getInstance()
    storageReference = FirebaseStorage.getInstance().reference
    sessionManager.setImage("")
    rl1 = rootView.findViewById(R.id.rl1)
    rl2 = rootView.findViewById(R.id.rl2)
    rl3 = rootView.findViewById(R.id.rl3)
    rl4 = rootView.findViewById(R.id.rl4)
    rl5 = rootView.findViewById(R.id.rl5)
    rl6 = rootView.findViewById(R.id.rl6)
    root_layout = rootView.findViewById(R.id.root_layout)
    scrollView = rootView.findViewById(R.id.scrollView)
    toolbar = rootView.findViewById(R.id.toolbar)
    toolbar.title = "Profil"
    imageview = rootView.findViewById(R.id.imageView)
    fab = rootView.findViewById(R.id.fab)
    pbLoading = rootView.findViewById(R.id.pbLoading)
    textnimlayout = rootView.findViewById(R.id.textNimLayout)
    textnim = rootView.findViewById(R.id.textNim)
    textnamalayout = rootView.findViewById(R.id.textNamaLayout)
    textnama = rootView.findViewById(R.id.textNama)
    textprodilayout = rootView.findViewById(R.id.textProdiLayout)
    textprodi = rootView.findViewById(R.id.textProdi)
    textangkatanlayout = rootView.findViewById(R.id.textAngkatanLayout)
    textangkatan = rootView.findViewById(R.id.textAngkatan)
    textnohplayout = rootView.findViewById(R.id.textNohpLayout)
    textnohp = rootView.findViewById(R.id.textNohp)
    textemaillayout = rootView.findViewById(R.id.textEmailLayout)
    textemail = rootView.findViewById(R.id.textEmail)
    textalamatlayout = rootView.findViewById(R.id.textAlamatLayout)
    textalamat = rootView.findViewById(R.id.textAlamat)
    textlokalayout = rootView.findViewById(R.id.textLokasiLayout)
    textlokasi = rootView.findViewById(R.id.textLokasi)
    textnamainstansilayout =
rootView.findViewById(R.id.textNamainstansiLayout)

```

```

        textnamainstansi = rootView.findViewById(R.id.textNamainstansi)
        textalamatinstansilayout =
rootView.findViewById(R.id.textAlamatinstansiLayout)
        textalamatinstansi = rootView.findViewById(R.id.textAlamatinstansi)
        textnotlpinstansilayout =
rootView.findViewById(R.id.textNotlpinstansiLayout)
        textnotlpinstansi = rootView.findViewById(R.id.textNotlpinstansi)
        textjabatanlayout = rootView.findViewById(R.id.textJabatanLayout)
        textjabatan = rootView.findViewById(R.id.textJabatan)
        (activity as AppCompatActivity).setSupportActionBar(toolbar)
        setHasOptionsMenu(true)
        scrollView.scrollTo(0, 0)
        fab.setOnClickListener {
            showPictureDialog()
        }
        imageview.setOnClickListener {
            if (!TextUtils.isEmpty(image_url)) {
                val intent = Intent(context!!, ImageviewActivity::class.java)
                intent.putExtra("image_url", image_url)
                this.startActivity(intent)
            }
        }

        rl1.setOnClickListener {
            val intent = Intent(context!!, Tracerstudy0Activity::class.java)
            intent.putExtra("edit", true)
            context!!.startActivity(intent)
        }
        rl2.setOnClickListener {
            var lat = 0.0
            var long = 0.0
            if (!textLokasi.text.toString().isEmpty()) {
                val text = textLokasi.text.toString().trim().split(",")
                if (!text[0].equals("-") && !text[1].equals("-")) {
                    lat = text[0].toDouble()
                    long = text[1].toDouble()
                }
            }
            dialogLokasi("'" + textLokasi.text.toString().trim(), "'" + nim_s, "'", 0 +
lat, 0 + long)
        }
        rl3.setOnClickListener {
            dialog_about()
        }
        rl4.setOnClickListener {
            dialog_rateus()
        }
        rl5.setOnClickListener {

```

```

        val intent = Intent(context!!, ProfilPasswordActivity::class.java)
        context!!.startActivity(intent)
    }
    rl6.setOnClickListener {
        if (firestoreListener != null)
            firestoreListener!!.remove()
        firestoreDB!!.terminate()
        sessionManager.logoutUser()
        auth.signOut()
    }

    pbLoading.visibility = View.VISIBLE
    loadData()
    return rootView
}

override fun onDestroy() {
    super.onDestroy()
    if (firestoreListener != null) {
        firestoreListener!!.remove()
        firestoreListener = null
    }
}

fun fakultas() {
    firestoreDB!!.collection("fakultas")
        .addSnapshotListener(EventListener { documentSnapshots, e ->
            if (e != null) {
                Log.e(TAG, "Listen failed!", e)
                pbLoading.visibility = View.GONE
                return@EventListener
            }

            if (documentSnapshots != null) {
                for (doc in documentSnapshots) {
                    if (doc.get("prodi") != null){
                        val pvalue = doc.get("prodi") as HashMap<String,
Any>

                        for (p in pvalue) {
                            fkl.put(p.key, p.value)
                        }
                    }
                }
                System.out.println("fkl1=>" + fkl)
            }
        })
}
}

```

```

fun loadData() {
    var Fq: Query
    if (akses_s.equals("1")) {
        Fq = firestoreDB!!.collection("users")
        textprodilayout.visibility = View.GONE
        textangkatanlayout.visibility = View.GONE
        textnohplayout.visibility = View.GONE
        textalamatlayout.visibility = View.GONE
        textlokalayout.visibility = View.GONE
        textnamainstansilayout.visibility = View.GONE
        textalamatinstansilayout.visibility = View.GONE
        textnotlpinstansilayout.visibility = View.GONE
        textjabatanlayout.visibility = View.GONE
        rl2.visibility = View.GONE
    } else {
        Fq = firestoreDB!!.collection("alumni")
    }
    firestoreListener = Fq.document(nim_s)
    .addSnapshotListener(EventListener { documentSnapshots, e ->
        if (e != null) {
            Log.e(TAG, "Listen failed!", e)
            pbLoading.visibility = View.GONE
            return@EventListener
        }

        if (documentSnapshots != null) {
            val document = documentSnapshots.data
            if (document?.get("image_url") != null)
                image_url = document.get("image_url").toString()
            if (document?.get("nama") != null)
                nama = document.get("nama").toString()
            if (document?.get("alamat") != null)
                alamat = document.get("alamat").toString()
            if (document?.get("email") != null)
                email = document.get("email").toString()
            if (document?.get("nohp") != null)
                nohp = document.get("nohp").toString()
            if (document?.get("latitude") != null)
                lat = document.get("latitude").toString()
            if (document?.get("longitude") != null)
                long = document.get("longitude").toString()
            if (document?.get("prodi") != null)
                prodi_id = document.get("prodi").toString()
            if (document?.get("angkatan") != null)
                angkatan = document.get("angkatan").toString()
        }

        context?.let{

```

```

        val placeholder =
        BitmapFactory.decodeResource(it.resources, R.drawable.ic_user)
        val circularBitmapDrawable =
        RoundedBitmapDrawableFactory.create(it.resources, placeholder)
        circularBitmapDrawable.isCircular = true
        Glide.with(it).load(image_url)
        .apply(
            RequestOptions()
            .circleCrop()
            .centerCrop()
            .error(circularBitmapDrawable)
            .placeholder(circularBitmapDrawable)
        )
        .apply(RequestOptions.circleCropTransform())
        .into(imageView)
    }
    editDisable(textnim)
    editDisable(textnama)
    editDisable(textprodi)
    editDisable(textangkatan)
    editDisable(textnohp)
    editDisable(textemail)
    editDisable(textalamat)
    editDisable(textlokasi)
    editDisable(textnamainstansi)
    editDisable(textalamatinstansi)
    editDisable(textnotlpinstansi)
    editDisable(textjabatan)

    textnim.setText(nim_s)
    textnama.setText(nama)
    if (prodi_id.equals("") || prodi_id.equals("-")) {
        textprodi.setText("-")
    } else {
        textprodi.setText(fkl.get(prodi_id).toString())
    }
    textangkatan.setText(angkatan)
    textnohp.setText(nohp)
    textemail.setText(email)
    textalamat.setText(alamat)
    textlokasi.setText(lat + ", " + long)
    pbLoading.visibility = View.GONE
    })

    firestoreListener = firestoreDB!!.collection("tracerstudy")
    .document(nim_s)
    .addSnapshotListener(EventListener { documentSnapshots, e ->
        if (e != null) {

```

```

        Log.e(TAG, "Listen failed!", e)
        pbLoading.visibility = View.GONE
        return@EventListener
    }
    if (documentSnapshots != null) {
        val document = documentSnapshots.data
        if (document?.get("F11_6") != null)
            s1 = document.get("F11_6").toString()
        if (document?.get("F11_7") != null)
            s2 = document.get("F11_7").toString()
        if (document?.get("F11_8") != null)
            s3 = document.get("F11_8").toString()
        if (document?.get("F11_9") != null)
            s4 = document.get("F11_9").toString()
    }
    textnamainstansi.setText(s1)
    textalamatinstansi.setText(s2)
    textnotlpinstansi.setText(s3)
    textjabatan.setText(s4)
    pbLoading.visibility = View.GONE
})
}

fun dialog_about() {
    val inflater =
context!!.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
    val formsView = inflater.inflate(R.layout.dialog_about, null, false)
    var btnhelp: Button
    var textclose: TextView
    var textversion: TextView
    btnhelp = formsView.findViewById(R.id.btnHelp)
    textclose = formsView.findViewById(R.id.textClose)
    textversion = formsView.findViewById(R.id.textVersion)
    textversion.text = "Version " + BuildConfig.VERSION_NAME
    val builder = AlertDialog.Builder(context!!).create()
//    builder.setTitle("Pengelolaan User")
    builder.setView(formsView)
    btnhelp.setOnClickListener {
        val uri = Uri.parse("http://fti.unibba.ac.id/")
        val intent = Intent(Intent.ACTION_VIEW, uri)
        startActivity(intent)
        builder.dismiss()
    }
    textclose.setOnClickListener {
        builder.dismiss()
    }
    builder.show()
}

```

```

    }

    fun dialog_rateus() {
        startActivity(Intent(Intent.ACTION_VIEW,
Uri.parse("market://details?id="+BuildConfig.APPLICATION_ID)))
    }

    private fun dialogEdit(str:Boolean, title:String, key:String){
        val data = HashMap<String, Any>()
        val inflater =
activity!!.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
        val formsView = inflater.inflate(R.layout.dialog_profil_lokasi, null, false)

        var textInputHint: TextInputLayout
        var textInput: TextInputEditText
        var fakultas: SearchableSpinner
        var prodi: SearchableSpinner

        textInputHint = formsView.findViewById(R.id.textInputLayout)
        textInput = formsView.findViewById(R.id.textInput)
        fakultas = formsView.findViewById(R.id.fakultas)
        prodi = formsView.findViewById(R.id.prodi)

        textInputHint.hint = title

        val builder = AlertDialog.Builder(context!!)
        builder.setTitle("Edit "+title)
        builder.setView(formsView)
        builder.setPositiveButton("Kembali", { dialog, which -> })
        builder.setNegativeButton("Simpan", { dialog, which ->
            if (str==true) {
                val text = textInput.text.toString().trim()
                data.put(key, text)
            }else{
                data.put("fakultas", fakultas.selectedItemPosition)
                data.put("prodi", prodi.selectedItemPosition)
            }
            savedata(data)
        })
        val dialog = builder.create()
        dialog.show()
    }

    private fun dialogLokasi(content: String, nim: String, nama: String, lat: Double,
long: Double) {
        val inflater =
activity!!.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as

```

## LayoutInflater

```
val formsView = inflater.inflate(R.layout.dialog_profil_lokasi, null, false)
var mapView: MapView
var googleMap: GoogleMap
var textInputHint: TextInputLayout
var textInput: TextInputEditText
var btnsetlokasi: Button
var title = ""
var dataprofil = HashMap<String, Any>()
mapView = formsView.findViewById(R.id.mapView)
textInputHint = formsView.findViewById(R.id.textInputLayout)
textInput = formsView.findViewById(R.id.textInput)
btnsetlokasi = formsView.findViewById(R.id.btnSetLokasi)
MapsInitializer.initialize(context!!)
title = "Update Lokasi (Latitude & Longitude)"
textInputHint.hint = "Lokasi (Latitude & Longitude)"
if (!content.equals("-"))
    textInput.setText(content)
textInput.inputType = InputType.TYPE_NULL
textInput.setTextIsSelectable(true)
textInput.keyListener = null
btnsetlokasi.setOnClickListener {
    getlokasi(textInput)
    textInput.addTextChangedListener(object : TextWatcher {
        override fun afterTextChanged(s: Editable?) {
            val text = textInput.text.toString().trim()
            if (!text.equals("")) {
                val k1 = text.split(",")[0].toDouble()
                val k2 = text.split(",")[1].toDouble()
                mapView.getMapAsync { mMap ->
                    googleMap = mMap
                    googleMap.uiSettings.isCompassEnabled = true

googleMap.uiSettings.isMyLocationButtonEnabled = true
                    googleMap.uiSettings.isRotateGesturesEnabled =
true

                    // For dropping a marker at a point on the Map
                    googleMap.clear()
                    var koordinat: LatLng
                    koordinat = LatLng(k1, k2)
                    val cameraPosition =
CameraPosition.Builder().target(koordinat).zoom(7f).build()

                    googleMap.animateCamera(CameraUpdateFactory.newCameraPosition(cameraPositi
on))

                    googleMap.addMarker(MarkerOptions().position(koordinat).title(nim).snippet(nama))
                    // For zooming automatically to the location of the
```



```

marker
                                googleMap.setOnInfoWindowClickListener
{ marker -> }
                                }
                                }
                                }

                                override fun beforeTextChanged(s: CharSequence?, start: Int,
count: Int, after: Int) {

                                }

                                override fun onTextChanged(s: CharSequence?, start: Int, before:
Int, count: Int) {

                                }

                                })
                                }
                                val builder = AlertDialog.Builder(context!!)
                                builder.setTitle(title)
                                builder.setView(formsView)
                                builder.setPositiveButton("Kembali", { dialog, which -> })
                                builder.setNegativeButton("Simpan", { dialog, which ->
                                    val text = textInput.text.toString().trim()
                                    if (!text.equals("")) {
                                        val k1 = text.split(",")[0].toDouble()
                                        val k2 = text.split(",")[1].toDouble()
                                        dataprofil.put("latitude", k1.toString())
                                        dataprofil.put("longitude", k2.toString())
                                        Log.d(TAG, dataprofil.toString())
                                    }
                                    savedata(dataprofil)
                                })
                                val dialog = builder.create()
                                builder.show()
                                mapView.onCreate(dialog.onSaveInstanceState())
                                mapView.onResume()
                                mapView.getMapAsync { mMap ->
                                    googleMap = mMap
                                    googleMap.uiSettings.isCompassEnabled = true
                                    googleMap.uiSettings.isMyLocationButtonEnabled = true
                                    googleMap.uiSettings.isRotateGesturesEnabled = true
                                    // For dropping a marker at a point on the Map
                                    var koordinat: LatLng
                                    koordinat = LatLNg(lat, long)
                                    val cameraPosition =
CameraPosition.Builder().target(koordinat).zoom(7f).build()

```

```

googleMap.animateCamera(CameraUpdateFactory.newCameraPosition(cameraPosition))

googleMap.addMarker(MarkerOptions().position(koordinat).title(nim).snippet(nama))
    googleMap.setMinZoomPreference(4F)
    // For zooming automatically to the location of the marker
    googleMap.setOnInfoWindowClickListener { marker -> }
    }
}

fun savedata(data: HashMap<String, Any>) {
    var user = data
    user.remove("fakultas")
    user.remove("prodi")
    user.remove("angkatan")
    user.remove("alamat")
    user.remove("latitude")
    user.remove("longitude")
    if (!user.isNullOrEmpty()) {
        firestoreDB!!.collection("users")
            .document(nim_s)
            .set(user, SetOptions.merge())
            .addOnCompleteListener {
                Toast.makeText(context, "Simpan data berhasil...",
                    Toast.LENGTH_LONG).show()
            }
    }
    if (akses_s.equals("0")) {
        firestoreDB!!.collection("alumni")
            .document(nim_s)
            .set(data, SetOptions.merge())
            .addOnCompleteListener {}
    }
}

private fun showPictureDialog() {
    val pictureDialog = AlertDialog.Builder(context!!)
    pictureDialog.setTitle("Unggah Foto")
    val pictureDialogItems = arrayOf("Ambil gambar", "Pilih dari galeri",
        "Batal")
    pictureDialog.setItems(
        pictureDialogItems
    ) { dialog, which ->
        when (which) {
            0 -> takePhotoFromCamera()
            1 -> choosePhotoFromGallary()
            2 -> dialog.dismiss()
        }
    }
}

```

```

        }
    }
    pictureDialog.show()
}

fun choosePhotoFromGallary() {
    runtimePermission {
        permissions(Manifest.permission.READ_EXTERNAL_STORAGE,
Manifest.permission.WRITE_EXTERNAL_STORAGE) {
            checked {
                val galleryIntent = Intent(
                    Intent.ACTION_PICK,
MediaStore.Images.Media.EXTERNAL_CONTENT_URI
                )
                startActivityForResult(galleryIntent, GALLERY)
            }
        }
        // Toast.makeText(this@ImageviewActivity, "Permission
checked", Toast.LENGTH_LONG).show()
    }
}

private fun takePhotoFromCamera() {
    runtimePermission {
        permissions(Manifest.permission.CAMERA) {
            checked {
                val intent =
Intent(MediaStore.ACTION_IMAGE_CAPTURE)
                startActivityForResult(intent, CAMERA)
            }
        }
        // Toast.makeText(this@ImageviewActivity, "Permission
checked", Toast.LENGTH_LONG).show()
    }
}

override fun onActivityResult(requestCode: Int, resultCode: Int, data: Intent?) {

    super.onActivityResult(requestCode, resultCode, data)

    if (requestCode == GALLERY && resultCode == RESULT_OK &&
data != null && data.data != null) {
        val contentURI = data.data
        try {
            val bitmap: Bitmap? =
MediaStore.Images.Media.getBitmap(activity!!.contentResolver, contentURI)

```

```

        uploadimage(bitmap!!)
        context?.let {
            Glide.with(it).load(bitmap)
                .apply(
                    RequestOptions()
                        .circleCrop()
                        .centerCrop()
                        .error(R.drawable.ic_user)
                        .placeholder(R.drawable.ic_user)
                )
                .apply(RequestOptions.circleCropTransform())
                .into(imageview)
        }
    } catch (e: IOException) {
        e.printStackTrace()
        Toast.makeText(context!!, "Failed!",
Toast.LENGTH_SHORT).show()
    }

    } else if (requestCode == CAMERA && resultCode == RESULT_OK &&
data != null) {
        val bitmap: Bitmap? = data.extras!!.get("data") as Bitmap
        uploadimage(bitmap!!)
        context?.let{
            Glide.with(it).load(bitmap)
                .apply(
                    RequestOptions()
                        .circleCrop()
                        .centerCrop()
                        .error(R.drawable.ic_user)
                        .placeholder(R.drawable.ic_user)
                )
                .apply(RequestOptions.circleCropTransform())
                .into(imageview)
        }
    }
}

fun uploadimage(bitmap: Bitmap) {
    if (bitmap != null) {
        val baos = ByteArrayOutputStream()
        bitmap.compress(Bitmap.CompressFormat.JPEG, 50, baos)
        val data: ByteArray = baos.toByteArray()
        val ref = storageReference!!.child("images/users/" + nim_s + ".jpg")
        val uploadTask = ref.putBytes(data)
        uploadTask.addOnSuccessListener { task ->
            ref.downloadUrl
                .addOnSuccessListener { uri ->

```

```

        saveimageUrl(uri.toString())
    }
}

}

fun saveimageUrl(url: String) {
    val data = HashMap<String, Any>()
    data.put("image_url", url)
    if (akses_s.equals("0")) {
        firestoreDB!!.collection("alumni")
            .document(nim_s)
            .set(data, SetOptions.merge())
    }
    firestoreDB!!.collection("users")
        .document(nim_s)
        .set(data, SetOptions.merge())
}

// fun saveImage(myBitmap: Bitmap): String {
//     val bytes = ByteArrayOutputStream()
//     myBitmap.compress(Bitmap.CompressFormat.JPEG, 90, bytes)
//     val wallpaperDirectory = File(
//         (Environment.getExternalStorageDirectory()).toString() +
//         IMAGE_DIRECTORY
//     )
//     /// have the object build the directory structure, if needed.
//     Log.d("fee", wallpaperDirectory.toString())
//     if (!wallpaperDirectory.exists()) {
//         wallpaperDirectory.mkdirs()
//     }
//     try {
//         Log.d("heel", wallpaperDirectory.toString())
//         val f = File(
//             wallpaperDirectory, ((Calendar.getInstance())
//                 .timeInMillis).toString() + ".jpg")
//         f.createNewFile()
//         val fo = FileOutputStream(f)
//         fo.write(bytes.toByteArray())
//         MediaScannerConnection.scanFile(
//             context!!,
//             arrayOf(f.path),
//             arrayOf("image/jpeg"), null
//         )
//         fo.close()
//         Log.d("TAG", "File Saved::--->" + f.absolutePath)

```

```

//
//      return f.absolutePath
//    } catch (e1: IOException) {
//      e1.printStackTrace()
//    }
//
//    return ""
//  }

companion object {
    private val IMAGE_DIRECTORY = "/tracer_unibba"
}

@SuppressLint("MissingPermission")
fun getlokasi(inputText: EditText) {
    runtimePermission {
        permission(Manifest.permission.ACCESS_FINE_LOCATION) {
            granted {
                val mFusedLocation =
LocationServices.getFusedLocationProviderClient(context!!)
                mFusedLocation!!.lastLocation.addOnSuccessListener
{ location ->
                    onSuccess(location, inputText)
                }
            }

            denied {
                Toast.makeText(context!!, "Permission denied",
Toast.LENGTH_LONG).show()
                openSettings()
            }
        }
    }
}

fun onSuccess(location: Location?, inputText: EditText) {
    // Do it all with location
    Log.d(
        "My Current location",
        "Lat : ${location?.latitude} Long : ${location?.longitude}"
    )
    if (location != null) {
        inputText.setText(location.latitude.toString() + ", " +
location.longitude.toString())
    } else {
        Toast.makeText(
            context!!,
            "Set lokasi gagal, periksa kembali pengaturan handphone!!!",

```

```

        Toast.LENGTH_LONG
    ).show()
    }
}

fun openSettings() {
    val intent = Intent()
    intent.action = Settings.ACTION_APPLICATION_DETAILS_SETTINGS
    val uri = Uri.fromParts(
        "package",
        BuildConfig.APPLICATION_ID, null
    )
    intent.data = uri
    intent.flags = Intent.FLAG_ACTIVITY_NEW_TASK
    startActivity(intent)
}

fun editDisable(edit: TextInputEditText) {
    edit.inputType = InputType.TYPE_NULL
    edit.keyListener = null
    edit.setTextIsSelectable(true)
}

// override fun onCreateOptionsMenu(menu: Menu, inflater: MenuInflater) {
//     inflater.inflate(R.menu.profil_menu, menu)
//     super.onCreateOptionsMenu(menu, inflater)
// }

// override fun onOptionsItemSelected(item: MenuItem): Boolean {
//     when (item.itemId) {
//         R.id.profil_ubah -> {
//             val intent = Intent(context!!, Tracerstudy0Activity::class.java)
//             context!!.startActivity(intent)
//         }
//         R.id.profil_lokasi -> {
//             dialogLokasi("", "" + nim_s, "", 0.0, 0.0)
//         }
//         R.id.profil_about -> {
//             dialog_about()
//         }
//         R.id.profil_rate -> {
//             dialog_rateus()
//         }
//         R.id.profil_password -> {
//             val intent = Intent(context!!, ProfilPasswordActivity::class.java)
//             context!!.startActivity(intent)
//         }
//         R.id.profil_logout -> {

```

```

//          sessionManager.logoutUser()
//      }
//  }
//      return super.onOptionsItemSelected(item)
//  }
}

```

### 7.13 RestoreFragment.kt

```

package com.unibba.traceralumni2019.fragment

import android.Manifest
import android.app.Activity.RESULT_OK
import android.content.Intent
import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.Button
import android.widget.ProgressBar
import android.widget.TextView
import androidx.fragment.app.Fragment
import com.github.babedev.dexter.dsl.runtimePermission
import com.google.firebase.firestore.FirebaseFirestore
import com.google.firebase.firestore.SetOptions
import com.toptoeche.searchablespinnerlibrary.SearchableSpinner
import com.unibba.traceralumni2019.R
import com.unibba.traceralumni2019.model.AlumniBackup
import com.unibba.traceralumni2019.util.SessionManager
import org.json.JSONArray
import java.io.File
import java.net.URI

class RestoreFragment : Fragment() {

    private val TAG = "RestoreFragment"
    private lateinit var pbLoading: ProgressBar
    private lateinit var sessionManager: SessionManager
    private lateinit var button1: Button
    private lateinit var button2: Button
    private lateinit var text2: TextView
    private lateinit var pilih: SearchableSpinner
    //    private var mAdapter: AlumniAdapter? = null
    private var firestoreDB: FirebaseFirestore? = null
    var sourcefile = ""

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,

```



```

        savedInstanceState: Bundle?
    ): View? {
        val rootView: View = inflater.inflate(R.layout.fragment_restore,
container, false)
        firestoreDB = FirebaseFirestore.getInstance()
        sessionManager = SessionManager(context!!)
        pbLoading = rootView.findViewById(R.id.pbLoading)
        text2 = rootView.findViewById(R.id.textView2)
        pilih = rootView.findViewById(R.id.spinner_restore)
        button1 = rootView.findViewById(R.id.button1)
        button2 = rootView.findViewById(R.id.button2)
        pbLoading.visibility = View.GONE

        button1.setOnClickListener {
            runtimePermission {

permissions(Manifest.permission.READ_EXTERNAL_STORAGE,
Manifest.permission.WRITE_EXTERNAL_STORAGE) {
                checked {
                    val intent = Intent()
                        .setType("*/*")
                        .setAction(Intent.ACTION_GET_CONTENT)
                    startActivityForResult(Intent.createChooser(intent,
"Select a file"), 111)
                }
            }
            // Toast.makeText(this@ImageviewActivity, "Permission
checked", Toast.LENGTH_LONG).show()
        }
    }

    button2.setOnClickListener {
        var id = ""
        var tabel = ""
        var data = HashMap<String, Any>()
        System.out.println(sourcefile)

        if (pilih.selectedItemPosition == 1) {
            tabel = "alumni"
            val List = mutableListOf<AlumniBackup>()
            val jsonarray = JSONArray(sourcefile)
            for (i in 0 until jsonarray.length()) {
                val objdata = jsonarray.getJSONObject(i)
                data.put("nim",objdata.getString("nim"))
                data.put("nama",objdata.getString("nama"))
                data.put("email",objdata.getString("email"))
                data.put("nohp",objdata.getString("nohp"))
                data.put("fakultas",objdata.getString("fakultas"))
            }
        }
    }
}

```

```

        data.put("prodi",objdata.getString("prodi"))
        data.put("angkatan",objdata.getString("angkatan"))
        data.put("alamat",objdata.getString("alamat"))
        data.put("latitude",objdata.getString("latitude"))
        data.put("longitude",objdata.getString("longitude"))
        data.put("image_url",objdata.getString("image_url"))

        System.out.println(
            "id=>" + objdata.getString("id") +
            " nim=>" + objdata.getString("nim") +
            " angkatan=>" +
objdata.getString("angkatan") +
            " prodi=>" + objdata.getString("prodi")
        )
        id = objdata.getString("id")
        if (!id.isNullOrEmpty()) {
            firestoreDB!!.collection(tabel)
                .document(id)
                .set(data, SetOptions.merge())
        }
    }
    } else if (pilih.selectedItemPosition == 2) {
        tabel = "tracerstudy"
    } else if (pilih.selectedItemPosition == 3) {
        tabel = "chat"
    } else if (pilih.selectedItemPosition == 4) {
        tabel = "forum"
    } else if (pilih.selectedItemPosition == 5) {
        tabel = "loker"
    } else if (pilih.selectedItemPosition == 6) {
        tabel = "pengumuman"
    }
    }
    //        firestoreDB!!.collection(tabel)
    //        .document(id)
    //        .set(data, SetOptions.merge())
    }

    return rootView
}

override fun onActivityResult(requestCode: Int, resultCode: Int, data:
Intent?) {
    super.onActivityResult(requestCode, resultCode, data)

    if (requestCode == 111 && resultCode == RESULT_OK) {
        val selectedFile = data?.data //The uri with the location of the file
        text2.text = "File Path :\n" + selectedFile.toString()
        val file = File(Uri(selectedFile.toString()))
    }
}

```

```

        sourcefile = file.readText()
        System.out.println(sourcefile)
    }
}

```

## 8. Model

### 8.1 AdminGrid.kt

```

package com.unibba.traceralumni2019.model

class AdminGrid {
    var name: String? = null
    var image: Int? = null

    constructor(name: String, image: Int) {
        this.name = name
        this.image = image
    }
}

```

### 8.2 Alumni.kt

```

package com.unibba.traceralumni2019.model

import java.util.HashMap

class Alumni {

    var id: String? = null
    var image: String? = null
    var angkatan: String? = null
    var jumlah: String? = null

    constructor()

    constructor(id: String, image: String, angkatan: String, jumlah: String) {
        this.id = id
        this.image = image
        this.angkatan = angkatan
        this.jumlah = jumlah
    }

    constructor(angkatan: String, jumlah: String) {
        this.angkatan = angkatan
        this.jumlah = jumlah
    }

    fun toMap(): Map<String, Any> {

```

```

        val result = HashMap<String, Any>()
        result.put("angkatan", angkatan!!)
        result.put("jumlah", jumlah!!)

        return result
    }
}

```

```

class AlumniBackup {

    var id: String? = null
    var nim: String? = null
    var nama: String? = null
    var email: String? = null
    var nohp: String? = null
    var prodi: String? = null
    var angkatan: Int? = 0
    var alamat: String? = null
    var latitude: String? = null
    var longitude: String? = null
    var image_url: String? = null

    constructor()

    constructor(id: String,
                nim: String,
                nama: String,
                email: String,
                nohp: String,
                prodi: String,
                angkatan: Int,
                alamat: String,
                latitude: String,
                longitude: String,
                image_url: String) {
        this.id = id
        this.nim = nim
        this.nama = nama
        this.email = email
        this.nohp = nohp
        this.prodi = prodi
        this.angkatan = angkatan
        this.alamat = alamat
        this.latitude = latitude
        this.longitude = longitude
        this.image_url = image_url
    }
}

```

```
}
```

### 8.3 Chat.kt

```
package com.unibba.traceralumni2019.model
```

```
class Chat {

    var id: String? = null
    var token: String? = null
    var uid: String? = null
    var nama: String? = null
    var image_url: String? = null
    var pesan: String? = null
    var timestamp: String? = null
    var last_seen: String? = null
    var read: Int? = 0

    constructor()

    constructor(id: String,
                token: String,
                uid: String,
                nama: String,
                image_url: String,
                pesan: String,
                timestamp: String,
                last_seen: String,
                read: Int) {

        this.id = id
        this.token = token
        this.uid = uid
        this.nama = nama
        this.image_url = image_url
        this.pesan = pesan
        this.timestamp = timestamp
        this.last_seen = last_seen
        this.read = read
    }
}

class ChatCount {
    var read: String = ""
    get() = field
    set(value) {
        field = value
    }
}
```

```

class ChatMessage {

    var id_chat: String? = ""
    var id: String? = ""
    var uid: String? = ""
    var nama: String? = ""
    var pesan: String? = ""
    var timestamp: String? = null
    var read: Int? = 0
    var date_read: String? = null

    constructor()

    constructor(id_chat: String,
                id: String,
                nama: String,
                uid: String,
                pesan: String,
                timestamp: String,
                read: Int,
                date_read: String) {
        this.id_chat = id_chat
        this.id = id
        this.nama = nama
        this.uid = uid
        this.pesan = pesan
        this.timestamp = timestamp
        this.read = read
        this.date_read = date_read
    }
}

```

#### 8.4 ChatKontak.kt

```

package com.unibba.traceralumni2019.model

```

```

class ChatKontak {

    var id: String? = null
    var image_url: String? = null
    var nim: String? = null
    var nama: String? = null
    var tentang: String? = null
    var token: String? = null
    var akses: Int? = 0
    var last_seen: String? = null

    constructor()
}

```

```

        constructor(id: String,
                    image_url: String,
                    nim: String,
                    nama: String,
                    tentang: String,
                    token: String,
                    akses: Int,
                    last_seen: String
                ) {
            this.id = id
            this.image_url = image_url
            this.nim = nim
            this.nama = nama
            this.tentang = tentang
            this.token = token
            this.akses = akses
            this.last_seen = last_seen
        }
    }
}

```

#### 8.5 DataModel.kt

```

package com.unibba.traceralumni2019.model

class DataModel(var name: String?, var age: String?)

```

#### 8.6 Fakultas.kt

```

package com.unibba.traceralumni2019.model

class Fakultas {

    var id: String? = ""
    var nama: String? = ""
    var prodi: HashMap<String, Any> = HashMap()

    constructor()

    constructor(id: String, nama: String, prodi: HashMap<String, Any>) {
        this.id = id
        this.nama = nama
        this.prodi = prodi
    }
}

```

#### 8.7 FakultasProdi.kt

```

package com.unibba.traceralumni2019.model

class FakultasProdi {

```

```

var id: String? = ""
var key: String? = ""
var value: String? = ""

constructor()

constructor(id: String, key: String, value: String) {
    this.id = id
    this.key = key
    this.value = value
}
}

```

## 8.8 Forum.kt

```

package com.unibba.traceralumni2019.model

import com.google.firebase.Timestamp

data class ForumLike(
    val uid: String
)

class Forum {

    var id: String? = ""
    var kategori: String? = ""
    var image_url: String? = ""
    var judul: String? = ""
    var deskripsi: String? = ""
    var exps: String? = ""
    var dates: String? = ""
    var writes: String? = ""
    var uid: String? = ""
    var uimage_url: String? = ""
    var uname: String? = ""

    constructor()

    constructor(id: String,
        kategori: String,
        image_url: String,
        judul: String,
        deskripsi: String,
        exps: String,
        dates: String,
        writes: String,
        uid: String,
        uimage_url: String,
        uname: String) {
    }
}

```



```

        uname: String) {
    this.id = id
    this.kategori = kategori
    this.image_url = image_url
    this.judul = judul
    this.deskripsi = deskripsi
    this.exps = exps
    this.dates = dates
    this.writes = writes
    this.uid = uid
    this.uimage_url = uimage_url
    this.uname = uname
    }
}

```

```

class FLPBackup {

    var id: String? = ""
    var kategori: String? = ""
    var image_url: String? = ""
    var judul: String? = ""
    var deskripsi: String? = ""
    var expired: Timestamp? = null
    var date: Timestamp? = null
    var write: Timestamp? = null
    var uid: String? = ""
    var uimage_url: String? = ""
    var uname: String? = ""

    constructor()

    constructor(id: String,
        kategori: String,
        image_url: String,
        judul: String,
        deskripsi: String,
        expired: Timestamp,
        date: Timestamp,
        write: Timestamp,
        uid: String,
        uimage_url: String,
        uname: String) {
        this.id = id
        this.kategori = kategori
        this.image_url = image_url
        this.judul = judul
        this.deskripsi = deskripsi
        this.expired = expired
    }
}

```

```

        this.date = date
        this.write = write
        this.uid = uid
        this.uimage_url = uimage_url
        this.uname = uname
    }
}

```

### 8.9 ForumKomentar.kt

```

package com.unibba.traceralumni2019.model

import java.util.HashMap

class ForumKomentar {

    var id: String? = ""
    var image_url: String? = ""
    var komentar: String? = ""
    var dates: String? = ""
    var uid: String? = ""
    var nama: String? = ""

    constructor()

    constructor(id: String, image_url: String, komentar: String, dates: String, uid:
String, nama: String) {
        this.id = id
        this.image_url = image_url
        this.komentar = komentar
        this.dates = dates
        this.uid = uid
        this.nama = nama
    }

    fun toMap(): Map<String, Any> {

        val result = HashMap<String, Any>()
        result.put("komentar", komentar!!)
        result.put("dates", dates!!)
        result.put("uid", uid!!)

        return result
    }
}

```

### 8.10 ForumKomentarModel.kt

```

package com.unibba.traceralumni2019.model

```

```

import com.google.firebase.firestore.IgnoreExtraProperties
import com.google.gson.annotations.SerializedName

data class ForumKomentarCrud(
    val Image: String,
    val Komentar: String,
    val Date: String,
    val Uid: String
)

@IgnoreExtraProperties
class ForumKomentarModel {
    @SerializedName("key")
    internal var Key: String = ""
    @SerializedName("image")
    internal var Image: String = ""
    @SerializedName("komentar")
    internal var Komentar : String = ""
    @SerializedName("date")
    internal var Date : String = ""
    @SerializedName("uid")
    internal var Uid : String = ""

    fun ForumKomentarModel(Image: String, Komentar: String, Date: String,
    Uid: String) {
        this.Image = Image
        this.Komentar = Komentar
        this.Date = Date
        this.Uid = Uid
    }
    fun getKey(): String {
        return Key
    }
    fun setKey(Key: String) {
        this.Key = Key
    }
    fun getImage(): String {
        return Image
    }
    fun setImage(Image: String) {
        this.Image = Image
    }
    fun getKomentar(): String {
        return Komentar
    }
    fun setKomentar(Komentar: String) {
        this.Komentar = Komentar
    }
}

```

```

    }
    fun getDate(): String {
        return Date
    }
    fun setDate(Date: String) {
        this.Date = Date
    }
    fun getUid(): String {
        return Uid
    }
    fun setUid(Uid: String) {
        this.Uid = Uid
    }
}

```

### 8.11 ForumModel.kt

```

package com.unibba.traceralumni2019.model

import com.google.firebase.firestore.IgnoreExtraProperties
import com.google.gson.annotations.SerializedName

data class ForumSuka(
    val status: String
)

data class ForumCrud(
    val Image: String,
    val Judul: String,
    val Deskripsi: String,
    val Expired: String,
    val Date: String,
    val Write: String,
    val Uid: String
)

@IgnoreExtraProperties
class ForumModel {
    @SerializedName("key")
    internal var Key: String = ""
    @SerializedName("image")
    internal var Image: String = ""
    @SerializedName("judul")
    internal var Judul: String = ""
    @SerializedName("deskripsi")
    internal var Deskripsi: String = ""
    @SerializedName("expired")
    internal var Expired: String = ""
    @SerializedName("date")

```

```
internal var Date: String = ""
@SerializedName("write")
internal var Write: String = ""
@SerializedName("uid")
internal var Uid: String = ""

fun ForumModel(
    Image: String,
    Judul: String,
    Deskripsi: String,
    Expired: String,
    Date: String,
    Write: String,
    Uid: String
) {
    this.Image = Image
    this.Judul = Judul
    this.Deskripsi = Deskripsi
    this.Expired = Expired
    this.Date = Date
    this.Write = Write
    this.Uid = Uid
}

fun getKey(): String {
    return Key
}

fun setKey(Key: String) {
    this.Key = Key
}

fun getImage(): String {
    return Image
}

fun setImage(Image: String) {
    this.Image = Image
}

fun getJudul(): String {
    return Judul
}

fun setJudul(Judul: String) {
    this.Judul = Judul
}
```

```

fun getDeskripsi(): String {
    return Deskripsi
}

fun setDeskripsi(Deskripsi: String) {
    this.Deskripsi = Deskripsi
}

fun getExpired(): String {
    return Expired
}

fun setExpired(Expired: String) {
    this.Expired = Expired
}

fun getDate(): String {
    return Date
}

fun setDate(Date: String) {
    this.Date = Date
}

fun getWrite(): String {
    return Write
}

fun setWrite(Write: String) {
    this.Write = Write
}

fun getUid(): String {
    return Uid
}

fun setUid(Uid: String) {
    this.Uid = Uid
}
}

```

#### 8.12 ListAlumni.kt

```
package com.unibba.traceralumni2019.model
```

```

class ListAlumni {

    var id: String? = ""
    var image_url: String? = ""
}

```

```

var nim: String? = ""
var nama: String? = ""
var tentang: String? = ""
var angkatan: Int? = null
var prodi: String? = null
var fakultas: String? = ""
var last_seen: String? = ""

constructor()

constructor(id: String, image_url: String, nim: String, nama: String, tentang:
String, angkatan: Int, prodi: String, fakultas: String, last_seen: String) {
    this.id = id
    this.image_url = image_url
    this.nim = nim
    this.nama = nama
    this.tentang = tentang
    this.angkatan = angkatan
    this.prodi = prodi
    this.fakultas = fakultas
    this.last_seen = last_seen
}
}

```

### 8.13 LokerModel.kt

```

package com.unibba.traceralumni2019.model

//data class ForumModel(val Image: String, val Judul: String, val Deskripsi:
String)
class ProductModel (val productName: String = "")
class LokerModel {
    var Image: String? = ""
    var Judul : String? = ""
    var Deskripsi : String? = ""
    var Expired : String? = ""
    var Date : String? = ""
    var Write : String? = ""
    var Uid : String? = ""

    constructor():this("", "", "", "", "", "", "")

    constructor(Image: String?, Judul: String?, Deskripsi: String?, Expired:
String?, Date: String?, Write: String?, Uid: String?) {
        this.Image = Image
        this.Judul = Judul
        this.Deskripsi = Deskripsi
        this.Expired = Expired
        this.Date = Date
    }
}

```

```

        this.Write = Write
        this.Uid = Uid
    }
}

```

#### 8.14 MenuListView.kt

```

package com.unibba.traceralumni2019.model

class MenuListView(
    val image: Int,
    val labelmenu: String,
    val labelsubmenu: String
    //    val color: Int
)

```

#### 8.15 Message.kt

```

package com.unibba.traceralumni2019.model

import java.util.*

object MessageType {
    const val TEXT = "TEXT"
    const val IMAGE = "IMAGE"
}

interface Message {
    val time: Date
    val senderId: String
    val recipientId: String
    val senderName: String
    val type: String
}

```

#### 8.16 NotificationModel.kt

```

package com.unibba.traceralumni2019.model

class NotificationModel(var title: String?, var body: String?)

```

#### 8.17 Profil.kt

```

package com.unibba.traceralumni2019.model

import java.util.HashMap

class Profil {

    var id: String? = null
}

```



```
var image: String? = null
var nama: String? = null
var alamat: String? = null
var email: String? = null
var nohp: String? = null
var lat: String? = null
var long: String? = null
var prodi: Int? = 0
var nim: String? = null
var angkatan: String? = null
var namap: String? = null
var alamatp: String? = null
var notlpp: String? = null
```

```
constructor()
```

```
constructor(id: String, image: String, nama: String, alamat: String, email:
String, nohp: String, lat: String, long: String, prodi: Int, nim: String, angkatan:
String, namap: String, alamatp: String, notlpp: String) {
    this.id = id
    this.image = image
    this.nama = nama
    this.alamat = alamat
    this.email = email
    this.nohp = nohp
    this.lat = lat
    this.long = long
    this.prodi = prodi
    this.nim = nim
    this.angkatan = angkatan
    this.namap = namap
    this.alamatp = alamatp
    this.notlpp = notlpp
}
```

```
fun addToMap(): Map<String, Any> {
```

```
    val result = HashMap<String, Any>()
    result.put("id", id!!)
    result.put("image", image!!)
    result.put("nama", nama!!)
    result.put("alamat", alamat!!)
    result.put("email", email!!)
    result.put("nohp", nohp!!)
    result.put("lat", lat!!)
    result.put("long", long!!)
    result.put("prodi", prodi!!)
    result.put("nim", nim!!)
```

```

        result.put("angkatan", angkatan!!)
        result.put("namap", namap!!)
        result.put("alamatp", alamatp!!)
        result.put("notlpp", notlpp!!)
        return result
    }
}

```

#### 8.18 Responden.kt

```

package com.unibba.traceralumni2019.model

import java.util.HashMap

class Responden {

    var nama: String? = null
    var jumlah: String? = null
    var persentase: String? = null

    constructor()

    constructor(nama: String, jumlah: String, persentase: String) {
        this.nama = nama
        this.jumlah = jumlah
        this.persentase = persentase
    }

    fun toMap(): Map<String, Any> {

        val result = HashMap<String, Any>()
        result.put("nama", nama!!)
        result.put("jumlah", jumlah!!)
        result.put("persentase", persentase!!)

        return result
    }
}

```

#### 8.19 RootModel.kt

```

package com.unibba.traceralumni2019.model

import com.google.gson.annotations.SerializedName

class RootModel(
    @field:SerializedName("to") // "to" changed to token
    var token: String?,

```

```
@field:SerializedName("notification")
var notification: NotificationModel?,
@field:SerializedName("data")
var data: DataModel?
```

```
)
```

#### 8.10 Tracerstudy.kt

```
package com.unibba.traceralumni2019.model
```

```
class F3InfoMasaTungguKerja {
```

```
    var jawaban: String? = null
    var jumlah: String? = null
    var persentase: String? = null
```

```
    constructor()
```

```
    constructor(jawaban: String, jumlah: String, persentase: String) {
        this.jawaban = jawaban
        this.jumlah = jumlah
        this.persentase = persentase
    }
```

```
}
```

```
class F2KepuasanPengguna {
```

```
    var no: String? = ""
    var aspek: String? = ""
    var F2_1: String? = ""
    var F2_2: String? = ""
    var F2_3: String? = ""
    var F2_4: String? = ""
```

```
    constructor()
```

```
    constructor(no: String, aspek: String, F2_1: String, F2_2: String, F2_3:
String, F2_4: String) {
        this.no = no
        this.aspek = aspek
        this.F2_1 = F2_1
        this.F2_2 = F2_2
        this.F2_3 = F2_3
        this.F2_4 = F2_4
    }
```

```
}
```

```
class DayaSaingLulusan {
```

```

var no: String? = ""
var nama: String? = ""
var T1: String? = ""
var T2: String? = ""
var T3: String? = ""
var T4: String? = ""
var T5: String? = ""
var T6: String? = ""

constructor()

constructor(no: String, nama: String, T1: String, T2: String, T3: String, T4:
String, T5: String, T6: String) {
    this.no = no
    this.nama = nama
    this.T1 = T1
    this.T2 = T2
    this.T3 = T3
    this.T4 = T4
    this.T5 = T5
    this.T6 = T6
}
}

class TracerStudyBackup {

    var id: String? = ""
    var F2_1: Int? = -1
    var F2_2: Int? = -1
    var F2_3: Int? = -1
    var F2_4: Int? = -1
    var F2_5: Int? = -1
    var F2_6: Int? = -1
    var F2_7: Int? = -1
    var F2_8: Int? = -1
    var F2_9: Int? = -1
    var F2_10: Int? = -1
    var F2_11: Int? = -1
    var F2_12: Int? = -1
    var F2_13: Int? = -1
    var F2_14: Int? = -1
    var F3: Int? = -1
    var F4_1: Int? = -1
    var F4_2: Int? = -1
    var F4_3: Int? = -1
    var F4_4: Int? = -1
    var F4_5: Int? = -1
    var F4_6: Int? = -1

```

```
var F4_7: Int? = -1
var F4_8: Int? = -1
var F4_9: Int? = -1
var F4_10: Int? = -1
var F4_11: Int? = -1
var F4_12: Int? = -1
var F4_13: Int? = -1
var F4_14: Int? = -1
var F4_15: Int? = -1
var F4_15_other: String? = ""
var F5: Int? = -1
var F6: String? = ""
var F7: String? = ""
var F7a: String? = ""
var F8: Int? = -1
var F9_1: Int? = -1
var F9_2: Int? = -1
var F9_3: Int? = -1
var F9_4: Int? = -1
var F9_5: Int? = -1
var F9_5_other: String? = ""
var F10: Int? = -1
var F10_other: String? = ""
var F11_1: Int? = -1
var F11_2: Int? = -1
var F11_3: Int? = -1
var F11_4: Int? = -1
var F11_5: Int? = -1
var F11_5_other: String? = ""
var F11_6: String? = ""
var F11_7: String? = ""
var F11_8: String? = ""
var F11_9: String? = ""
var F13: Int? = -1
var F14: Int? = -1
var F15: Int? = -1
var F16_1: Int? = -1
var F16_2: Int? = -1
var F16_3: Int? = -1
var F16_4: Int? = -1
var F16_5: Int? = -1
var F16_6: Int? = -1
var F16_7: Int? = -1
var F16_8: Int? = -1
var F16_9: Int? = -1
var F16_10: Int? = -1
var F16_11: Int? = -1
var F16_12: Int? = -1
```

```
var F16_12_other: String? = ""  
var F17_1: Int? = -1  
var F17_2: Int? = -1
```

```
constructor()
```

```
constructor(  
    id: String,  
    F2_1: Int,  
    F2_2: Int,  
    F2_3: Int,  
    F2_4: Int,  
    F2_5: Int,  
    F2_6: Int,  
    F2_7: Int,  
    F2_8: Int,  
    F2_9: Int,  
    F2_10: Int,  
    F2_11: Int,  
    F2_12: Int,  
    F2_13: Int,  
    F2_14: Int,  
    F3: Int,  
    F4_1: Int,  
    F4_2: Int,  
    F4_3: Int,  
    F4_4: Int,  
    F4_5: Int,  
    F4_6: Int,  
    F4_7: Int,  
    F4_8: Int,  
    F4_9: Int,  
    F4_10: Int,  
    F4_11: Int,  
    F4_12: Int,  
    F4_13: Int,  
    F4_14: Int,  
    F4_15: Int,  
    F4_15_other: String,  
    F5: Int,  
    F6: String,  
    F7: String,  
    F7a: String,  
    F8: Int,  
    F9_1: Int,  
    F9_2: Int,  
    F9_3: Int,  
    F9_4: Int,
```

```
F9_5: Int,  
F9_5_other: String,  
F10: Int,  
F10_other: String,  
F11_1: Int,  
F11_2: Int,  
F11_3: Int,  
F11_4: Int,  
F11_5: Int,  
F11_5_other: String,  
F11_6: String,  
F11_7: String,  
F11_8: String,  
F11_9: String,  
F13: Int,  
F14: Int,  
F15: Int,  
F16_1: Int,  
F16_2: Int,  
F16_3: Int,  
F16_4: Int,  
F16_5: Int,  
F16_6: Int,  
F16_7: Int,  
F16_8: Int,  
F16_9: Int,  
F16_10: Int,  
F16_11: Int,  
F16_12: Int,  
F16_12_other: String,  
F17_1: Int,  
F17_2: Int  
) {  
    this.id=id  
    this.F2_1=F2_1  
    this.F2_2=F2_2  
    this.F2_3=F2_3  
    this.F2_4=F2_4  
    this.F2_5=F2_5  
    this.F2_6=F2_6  
    this.F2_7=F2_7  
    this.F2_8=F2_8  
    this.F2_9=F2_9  
    this.F2_10=F2_10  
    this.F2_11=F2_11  
    this.F2_12=F2_12  
    this.F2_13=F2_13  
    this.F2_14=F2_14
```

this.F3=F3  
this.F4\_1=F4\_1  
this.F4\_2=F4\_2  
this.F4\_3=F4\_3  
this.F4\_4=F4\_4  
this.F4\_5=F4\_5  
this.F4\_6=F4\_6  
this.F4\_7=F4\_7  
this.F4\_8=F4\_8  
this.F4\_9=F4\_9  
this.F4\_10=F4\_10  
this.F4\_11=F4\_11  
this.F4\_12=F4\_12  
this.F4\_13=F4\_13  
this.F4\_14=F4\_14  
this.F4\_15=F4\_15  
this.F4\_15\_other=F4\_15\_other  
this.F5=F5  
this.F6=F6  
this.F7=F7  
this.F7a=F7a  
this.F8=F8  
this.F9\_1=F9\_1  
this.F9\_2=F9\_2  
this.F9\_3=F9\_3  
this.F9\_4=F9\_4  
this.F9\_5=F9\_5  
this.F9\_5\_other=F9\_5\_other  
this.F10=F10  
this.F10\_other=F10\_other  
this.F11\_1=F11\_1  
this.F11\_2=F11\_2  
this.F11\_3=F11\_3  
this.F11\_4=F11\_4  
this.F11\_5=F11\_5  
this.F11\_5\_other=F11\_5\_other  
this.F11\_6=F11\_6  
this.F11\_7=F11\_7  
this.F11\_8=F11\_8  
this.F11\_9=F11\_9  
this.F13=F13  
this.F14=F14  
this.F15=F15  
this.F16\_1=F16\_1  
this.F16\_2=F16\_2  
this.F16\_3=F16\_3  
this.F16\_4=F16\_4  
this.F16\_5=F16\_5



```

        this.F16_6=F16_6
        this.F16_7=F16_7
        this.F16_8=F16_8
        this.F16_9=F16_9
        this.F16_10=F16_10
        this.F16_11=F16_11
        this.F16_12=F16_12
        this.F16_12_other=F16_12_other
        this.F17_1=F17_1
        this.F17_2=F17_2

    }
}

```

### 8.11 Users.kt

```

package com.unibba.traceralumni2019.model

class UserRegistrasi {
    var id: String? = null
    var nim: String? = null
    var nama: String? = null
    var email: String? = null
    var password: String? = null
    var tgl: String? = null
    var validasi: Int? = 0

    constructor()

    constructor(id: String, nim: String, nama: String, email: String, password:
String, tgl: String, validasi: Int) {
        this.id = id
        this.nim = nim
        this.nama = nama
        this.email = email
        this.password = password
        this.tgl = tgl
        this.validasi = validasi
    }
}

class Users {
    var id: String? = null
    var image_url: String? = null
    var nim: String? = null
    var nama: String? = null
    var email: String? = null
    var reg: String? = null
    var last: String? = null
}

```

```

        var hak_akses: String? = null

        constructor()

        constructor(id: String, image_url: String, nim: String, nama: String, email:
String, reg: String, last: String, hak_akses: String) {
            this.id = id
            this.image_url = image_url
            this.nim = nim
            this.nama = nama
            this.email = email
            this.reg = reg
            this.last = last
            this.hak_akses = hak_akses
        }
    }
}

```

## 9. Rest

### 9.1 ApiClient.kt

```

package com.unibba.traceralumni2019.rest

import retrofit2.Retrofit
import retrofit2.converter.gson.GsonConverterFactory

object ApiClient {
    //192.168.1.100 10.0.3.2
    val BASE_URL = "https://fcm.googleapis.com/"
    private var retrofit: Retrofit? = null

    val client: Retrofit?
        get() {
            if (retrofit == null) {
                retrofit = Retrofit.Builder()
                    .baseUrl(BASE_URL)
                    .addConverterFactory(GsonConverterFactory.create())
                    .build()
            }
            return retrofit
        }
}

```

### 9.2 ApiInterface.kt

```

package com.unibba.traceralumni2019.rest

import com.squareup.okhttp.ResponseBody

```

```

import com.unibba.traceralumni2019.model.RootModel
import retrofit2.Call
import retrofit2.http.*

interface ApiInterface {

    @Headers("Authorization:
key=AAAAZW046YA:APA91bFtwx0Rxo4-J-AWbZgkaaLIRSH18vjuWN5U__
WF6jMwPVfqm5MMhh7fw0-m8_6tsTm_z4e1EcdLEA89S5tVPfh1qRuThCIKzT
D7f__RcgtYVI_YJLXFQmZnOK1YRCyWD5GIUeP9",
"Content-Type:application/json")
    // @FormUrlEncoded
    // @Multipart
    @POST("fcm/send")
    fun postPengumuman(@Body rootModel: RootModel):
    Call<ResponseBody>
}

```

## 10. Service

### 10.1 MyFirebaseMessagingService.kt

```

package com.unibba.traceralumni2019.service

import android.util.Log
import com.google.firebase.messaging.FirebaseMessagingService
import com.google.firebase.messaging.RemoteMessage

class MyFirebaseMessagingService : FirebaseMessagingService() {

    override fun onMessageReceived(remoteMessage: RemoteMessage) {
        if (remoteMessage.notification != null) {
            //TODO: Show notification if we're not online
            Log.d("FCM", remoteMessage.data.toString())
        }
    }
}

```

### 10.2 MyFirebaseInstanceIdService.kt

```

package com.unibba.traceralumni2019.service

//import com.google.firebase.auth.FirebaseAuth
//import com.google.firebase.iid.FirebaseInstanceId
//import com.google.firebase.iid.FirebaseInstanceIdService
//import com.unibba.traceralumni.util.FirestoreUtil
//
//

```

```

//class MyFirebaseInstanceIdService : FirebaseInstanceIdService() {
//
//    override fun onTokenRefresh() {
//        val newRegistrationToken = FirebaseInstanceId.getInstance().token
//
//        if (FirebaseAuth.getInstance().currentUser != null)
//            addTokenToFirestore(newRegistrationToken)
//    }
//
//    companion object {
//        fun addTokenToFirestore(newRegistrationToken: String?) {
//            if (newRegistrationToken == null) throw
//            NullPointerException("FCM token is null.")
//
//            FirestoreUtil.getFCMRegistrationTokens { tokens ->
//                if (tokens.contains(newRegistrationToken))
//                    return@getFCMRegistrationTokens
//
//                tokens.add(newRegistrationToken)
//                FirestoreUtil.setFCMRegistrationTokens(tokens)
//            }
//        }
//    }
//}

```

## 11. Util

### 11.1 ColorTemplates.kt

```

package com.unibba.traceralumni2019.util

import android.content.res.Resources
import android.graphics.Color
import java.util.*

object ColorTemplates {

    /**
     * an "invalid" color that indicates that no color is set
     */
    val COLOR_NONE = 0x00112233

    /**
     * this "color" is used for the Legend creation and indicates that the next
     * form should be skipped
     */
    val COLOR_SKIP = 0x00112234

    /**

```

```
    * THE COLOR THEMES ARE PREDEFINED (predefined color integer arrays), FEEL
```

```
    * FREE TO CREATE YOUR OWN WITH AS MANY DIFFERENT COLORS AS YOU WANT
```

```
    */
```

```
    val LIBERTY_COLORS = mutableListOf(  
        Color.rgb(207, 248, 246),  
        Color.rgb(148, 212, 212),  
        Color.rgb(136, 180, 187),  
        Color.rgb(118, 174, 175),  
        Color.rgb(42, 109, 130)
```

```
    )  
    val JOYFUL_COLORS = mutableListOf(  
        Color.rgb(217, 80, 138),  
        Color.rgb(254, 149, 7),  
        Color.rgb(254, 247, 120),  
        Color.rgb(106, 167, 134),  
        Color.rgb(53, 194, 209)
```

```
    )  
    val PASTEL_COLORS = mutableListOf(  
        Color.rgb(64, 89, 128),  
        Color.rgb(149, 165, 124),  
        Color.rgb(217, 184, 162),  
        Color.rgb(191, 134, 134),  
        Color.rgb(179, 48, 80)
```

```
    )  
    val COLORFUL_COLORS = mutableListOf(  
        Color.rgb(193, 37, 82),  
        Color.rgb(255, 102, 0),  
        Color.rgb(245, 199, 0),  
        Color.rgb(106, 150, 31),  
        Color.rgb(179, 100, 53)
```

```
    )  
    val VORDIPLOM_COLORS = mutableListOf(  
        Color.rgb(192, 255, 140),  
        Color.rgb(255, 247, 140),  
        Color.rgb(255, 208, 140),  
        Color.rgb(140, 234, 255),  
        Color.rgb(255, 140, 157)
```

```
    )  
    val MATERIAL_COLORS = mutableListOf(  
        rgb("#2ecc71"),  
        rgb("#f1c40f"),  
        rgb("#e74c3c"),  
        rgb("#3498db"))
```

```
/**
```

```
    * Returns the Android ICS holo blue light color.
```

```

*
* @return
*/
val holoBlue: Int
    get() = Color.rgb(51, 181, 229)

/**
 * Converts the given hex-color-string to rgb.
 *
 * @param hex
 * @return
 */
fun rgb(hex: String): Int {
    val color = java.lang.Long.parseLong(hex.replace("#", ""), 16).toInt()
    val r = color shr 16 and 0xFF
    val g = color shr 8 and 0xFF
    val b = color shr 0 and 0xFF
    return Color.rgb(r, g, b)
}

/**
 * Sets the alpha component of the given color.
 *
 * @param color
 * @param alpha 0 - 255
 * @return
 */
fun colorWithAlpha(color: Int, alpha: Int): Int {
    return color and 0xffffff or (alpha and 0xff shl 24)
}

/**
 * turn an array of resource-colors (contains resource-id integers) into an
 * array list of actual color integers
 *
 * @param r
 * @param colors an integer array of resource id's of colors
 * @return
 */
fun createColors(r: Resources, colors: IntArray): List<Int> {
    val result = ArrayList<Int>()

    for (i in colors) {
        result.add(r.getColor(i))
    }

    return result
}

```

```

    }

    /**
     * Turns an array of colors (integer color values) into an ArrayList of
     * colors.
     *
     * @param colors
     * @return
     */
    fun createColors(colors: IntArray): List<Int> {

        val result = ArrayList<Int>()

        for (i in colors) {
            result.add(i)
        }

        return result
    }
}

```

## 11.2 InternetCheck.kt

```

package com.unibba.traceralumni2019.util

import android.content.Context
import android.content.Intent
import android.net.ConnectivityManager
import android.net.NetworkInfo
import android.util.Log
import com.unibba.traceralumni2019.activity.ConnectActivity

class InternetCheck {
    fun connect(context: Context){
        val connectivityManager =
context.getSystemService(Context.CONNECTIVITY_SERVICE) as
ConnectivityManager
        val activeNetwork: NetworkInfo? =
connectivityManager.activeNetworkInfo
        val isConnected: Boolean = activeNetwork?.isConnectedOrConnecting
        == true

        if (isConnected==false){
            val intent = Intent(context, ConnectActivity::class.java)
            intent.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP or
Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
            context.startActivity(intent)

```

```

    }
    Log.d("internet=", isConnected.toString())
}
fun isconnect(context: Context): Boolean {
    val connectivityManager =
context.getSystemService(Context.CONNECTIVITY_SERVICE) as
ConnectivityManager
    val activeNetwork: NetworkInfo? =
connectivityManager.activeNetworkInfo
    val isConnected: Boolean = activeNetwork?.isConnected == true
    return isConnected
}
}

```

### 11.3 md5.kt

```

package com.unibba.traceralumni2019.util

import java.math.BigInteger
import java.security.MessageDigest

fun String.md5(): String {
    val md = MessageDigest.getInstance("MD5")
    return BigInteger(1, md.digest(toByteArray())).toString(16).padStart(32, '0')
}

```

### 11.4 MyDividerItemDecoration.kt

```

package com.unibba.traceralumni2019.util

import android.content.Context
import android.graphics.Canvas
import android.graphics.Rect
import android.graphics.drawable.Drawable
import android.util.TypedValue
import android.view.View
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView

class MyDividerItemDecoration(private val context: Context, orientation: Int,
private val margin: Int) :
    RecyclerView.ItemDecoration() {

    private val mDivider: Drawable?
    private var mOrientation: Int = 0

    init {
        val a = context.obtainStyledAttributes(ATTRS)
        mDivider = a.getDrawable(0)
        a.recycle()
    }
}

```



```

        setOrientation(orientation)
    }

    fun setOrientation(orientation: Int) {
        if (orientation != HORIZONTAL_LIST && orientation !=
VERTICAL_LIST) {
            throw IllegalArgumentException("invalid orientation")
        }
        mOrientation = orientation
    }

    override fun onDrawOver(c: Canvas, parent: RecyclerView, state:
RecyclerView.State) {
        if (mOrientation == VERTICAL_LIST) {
            drawVertical(c, parent)
        } else {
            drawHorizontal(c, parent)
        }
    }

    fun drawVertical(c: Canvas, parent: RecyclerView) {
        val left = parent.paddingLeft
        val right = parent.width - parent.paddingRight

        val childCount = parent.childCount
        for (i in 0 until childCount) {
            val child = parent.getChildAt(i)
            val params = child
                .layoutParams as RecyclerView.LayoutParams
            val top = child.bottom + params.bottomMargin
            val bottom = top + mDivider!!.intrinsicHeight
            mDivider.setBounds(left + dpToPx(margin), top, right, bottom)
            mDivider.draw(c)
        }
    }

    fun drawHorizontal(c: Canvas, parent: RecyclerView) {
        val top = parent.paddingTop
        val bottom = parent.height - parent.paddingBottom

        val childCount = parent.childCount
        for (i in 0 until childCount) {
            val child = parent.getChildAt(i)
            val params = child
                .layoutParams as RecyclerView.LayoutParams
            val left = child.right + params.rightMargin
            val right = left + mDivider!!.intrinsicHeight
            mDivider.setBounds(left, top + dpToPx(margin), right, bottom -

```

```

        dpToPx(margin))
            mDivider.draw(c)
        }
    }

    override fun getItemOffsets(outRect: Rect, view: View, parent:
RecyclerView, state: RecyclerView.State) {
        if (mOrientation == VERTICAL_LIST) {
            outRect.set(0, 0, 0, mDivider!!.intrinsicHeight)
        } else {
            outRect.set(0, 0, mDivider!!.intrinsicWidth, 0)
        }
    }

    private fun dpToPx(dp: Int): Int {
        val r = context.resources
        return
Math.round(TypedValue.applyDimension(TypedValue.COMPLEX_UNIT_DIP,
dp.toFloat(), r.displayMetrics))
    }

    companion object {

        private val ATTRS = intArrayOf(android.R.attr.listDivider)

        val HORIZONTAL_LIST = LinearLayoutManager.HORIZONTAL

        val VERTICAL_LIST = LinearLayoutManager.VERTICAL
    }
}

```

### 11.5 PageTransformer.kt

```

package com.unibba.traceralumni2019.util

import android.view.View
import androidx.viewpager.widget.ViewPager

class PageTransformer : ViewPager.PageTransformer {

    override fun transformPage(page: View, position: Float) {
        if (position < -1) { // [-Infinity,-1)
            // This page is way off-screen to the left.
            page.alpha = 0f
        } else if (position <= 1) { // [-1,1]
            page.scaleX = Math.max(MIN_SCALE, 1 - Math.abs(position))
            page.scaleY = Math.max(MIN_SCALE, 1 - Math.abs(position))
            page.alpha = Math.max(MIN_ALPHA, 1 - Math.abs(position))
        } else { // (1,+Infinity]

```

```

        // This page is way off-screen to the right.
        page.alpha = 0f
    }
}

companion object {
    private val MIN_SCALE = 0.9f
    private val MIN_ALPHA = 0.1f
}
}

```

### 11.6 Run.kt

```

package com.unibba.traceralumni2019.util

import android.os.Handler

class Run {
    companion object {
        fun after(delay: Long, process: () -> Unit) {
            Handler().postDelayed({
                process()
            }, delay)
        }
    }
}

```

### 11.7 SessionManager.kt

```

package com.unibba.traceralumni2019.util

import android.content.Context
import android.content.Intent
import android.content.SharedPreferences
import com.google.firebase.auth.FirebaseAuth
import com.unibba.traceralumni2019.activity.LoginActivity
import com.unibba.traceralumni2019.activity.Validasi0Activity

class SessionManager {

    var pref: SharedPreferences
    var editor: SharedPreferences.Editor
    var _context: Context
    var PRIVATE_MODE: Int = 0
    val PREF_NAME: String = "Tracer_Study_Alumni_Pref"
    val IS_VALID: String = "IsValidIn"
    val KEY_ID_VALID: String = "id_valid"
    val KEY_NIM_VALID: String = "nim_valid"
    val KEY_NAMA_VALID: String = "nama_valid"
    val KEY_EMAIL_VALID: String = "email_valid"
}

```

```

val IS_LOGIN:String = "IsLoggedIn"
val KEY_POSITION:String = "position"
val KEY_ID:String = "id"
val KEY_NIM:String = "nim"
val KEY_NAMA:String = "nama"
val KEY_EMAIL:String = "email"
val KEY_PRODI:String = "prodi"
val KEY_ANGKATAN:String = "angkatan"
val KEY_AKSES:String = "akses"
val KEY_COLOR:String = "color"
val KEY_IMAGE:String = "image"
val KEY_START:String = "start"

// Constructor
constructor(context:Context){
    this._context = context
    pref = _context.getSharedPreferences(PREF_NAME,
PRIVATE_MODE)
    editor = pref.edit()
}

fun setProdiAngkatan(prodi: String, angkatan: String){
    editor.putString(KEY_PRODI, prodi)
    editor.putString(KEY_ANGKATAN, angkatan)
    editor.commit()
}

fun getProdiAngkatan():HashMap<String, String> {
    val list : HashMap<String, String> = HashMap<String, String>()
    list.put(KEY_PRODI, pref.getString(KEY_PRODI, ""))!!
    list.put(KEY_ANGKATAN, pref.getString(KEY_ANGKATAN, ""))!!
    return list
}

fun setStart(start: String){
    editor.putString(KEY_START, start)
    editor.commit()
}

fun getStart():String{
    return pref.getString(KEY_START, "0")
}

fun setPosition(position: Int){
    editor.putInt(KEY_POSITION, position)
    editor.commit()
}

```

```

fun getPosition():Int{
    return pref.getInt(KEY_POSITION, 0)
}

fun setImage(image: String){
    editor.putString(KEY_IMAGE, image)
    editor.commit()
}

fun getImage():String{
    return pref.getString(KEY_IMAGE, "")!!
}

fun setValidasi(id:String, nim:String, nama:String, email:String){
    editor.putBoolean(IS_VALID, true)
    editor.putString(KEY_ID_VALID, id)
    editor.putString(KEY_NIM_VALID, nim)
    editor.putString(KEY_NAMA_VALID, nama)
    editor.putString(KEY_EMAIL_VALID, email)
    editor.commit()
}

fun setLogin(id:String, nim:String, nama:String, email:String, akses:String){
    editor.putBoolean(IS_LOGIN, true)
    editor.putString(KEY_ID, id)
    editor.putString(KEY_NIM, nim)
    editor.putString(KEY_NAMA, nama)
    editor.putString(KEY_EMAIL, email)
    editor.putString(KEY_AKSES, akses)
    editor.commit()
}

fun checkLogin(account: FirebaseUser?){
    if (account == null) {
        val i = Intent(_context, LoginActivity::class.java)
        i.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
        _context.startActivity(i)
    }
    if(this.isValid()){
        val i = Intent(_context, Validasi0Activity::class.java)
        i.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
        _context.startActivity(i)
    }
}

fun getValidasi():HashMap<String, String> {

```

```

        val user : HashMap<String, String> = HashMap<String, String>()
        user.put(KEY_ID_VALID, pref.getString(KEY_ID_VALID, ""))
        user.put(KEY_NIM_VALID, pref.getString(KEY_NIM_VALID, ""))
        user.put(KEY_NAMA_VALID, pref.getString(KEY_NAMA_VALID,
""))
        user.put(KEY_EMAIL_VALID, pref.getString(KEY_EMAIL_VALID,
""))
        return user
    }

    fun getLogin():HashMap<String, String> {
        val user : HashMap<String, String> = HashMap<String, String>()
        user.put(KEY_ID, pref.getString(KEY_ID, "0"))
        user.put(KEY_NIM, pref.getString(KEY_NIM, ""))
        user.put(KEY_NAMA, pref.getString(KEY_NAMA, ""))
        user.put(KEY_EMAIL, pref.getString(KEY_EMAIL, ""))
        user.put(KEY_AKSES, pref.getString(KEY_AKSES, "0"))
        user.put(KEY_COLOR, pref.getString(KEY_COLOR, ""))
        return user
    }

    fun isValid():Boolean{
        return pref.getBoolean(IS_VALID, false)
    }

    fun isLoggedIn():Boolean{
        return pref.getBoolean(IS_LOGIN, false)
    }

    fun clearvalidasi(){
        editor.putBoolean(IS_VALID, false)
        editor.putString(KEY_ID_VALID, "")
        editor.putString(KEY_NIM_VALID, "")
        editor.putString(KEY_EMAIL_VALID, "")
        editor.commit()
    }

    fun logoutUser(){
        editor.clear()
        editor.commit()
        val i = Intent(_context, LoginActivity::class.java)
        i.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK or
Intent.FLAG_ACTIVITY_CLEAR_TASK)
        _context.startActivity(i)
    }
}

```

## 12. Res Layout

### 12.1 activity\_admin.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/android_gridview_example"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <GridView
        android:id="@+id/gridview"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:columnWidth="165dp"
        android:horizontalSpacing="15dp"
        android:verticalSpacing="15dp"
        android:clickable="true"
        android:gravity="center"
        android:numColumns="auto_fit"/>

</LinearLayout>
```

### 12.2 activity\_admin\_gridview\_layout.xml

```
<?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"
    android:id="@+id/android_custom_gridview_layout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center_horizontal"
    android:orientation="vertical">

    <androidx.cardview.widget.CardView
        android:id="@+id/card_view1"
        android:layout_width="150dp"
        android:layout_height="180dp"
        android:gravity="center"
        app:cardElevation="2dp"
        app:cardCornerRadius="4dp"
        android:layout_marginTop="15dp"
        android:layout_marginBottom="15dp">
        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:gravity="center_horizontal"
            android:orientation="vertical">
            <ImageView
                android:id="@+id/grid_image"
```

```

        android:layout_width="140dp"
        android:layout_height="110dp"
        android:layout_gravity="center"
        android:layout_marginTop="10dp"/>

        <TextView
            android:id="@+id/grid_text"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:gravity="center"
            android:text=""
            android:textSize="18dp"/>
    </LinearLayout>
</androidx.cardview.widget.CardView>
</LinearLayout>

```

### 12.3 activity\_backup.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#FFFFFF"
    android:layout_marginBottom="60dp">
    <com.google.android.material.appbar.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <com.google.android.material.tabs.TabLayout
            android:id="@+id/tabs"
            app:tabTextColor="#FFFFFF"
            app:tabSelectedTextColor="#FFFFFF"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            android:background="@color/blue"
            app:tabIndicatorColor="@color/white"
            app:tabMode="fixed"
            app:tabGravity="fill"/>
    </com.google.android.material.appbar.AppBarLayout>
    <androidx.viewpager.widget.ViewPager
        android:id="@+id/viewpager"
        android:layout_width="match_parent"
        android:layout_height="match_parent"

        app:layout_behavior="@string/appbar_scrolling_view_behavior"/>
</androidx.coordinatorlayout.widget.CoordinatorLayout>

```



## 12.4 activity\_chat.xml

```
<?xml version="1.0" encoding="utf-8"?>

<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/root_view"
    android:background="@drawable/background_chat">

    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/appBarLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

        android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
            android:background="@color/colorPrimary">
            <include layout="@layout/toolbar_custom"/>
        </androidx.appcompat.widget.Toolbar>
    </com.google.android.material.appbar.AppBarLayout>

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="60dp">
        <androidx.recyclerview.widget.RecyclerView
            android:id="@+id/recycler_view"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_above="@+id/emoji_bar"/>

        <LinearLayout
            android:id="@+id/emoji_bar"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_alignParentBottom="true"
            android:background="@drawable/shapechat"
            android:gravity="center_vertical"
            android:orientation="horizontal"
            android:layout_marginBottom="5dp">
```

```

        android:padding="4dp">

        <ImageButton
            android:id="@+id/emojiButton"
            android:layout_width="48dp"
            android:layout_height="48dp"

            android:background="?attr/selectableItemBackgroundBorderless"
            android:padding="12dp"
            android:scaleType="centerCrop"

            app:srcCompat="@drawable/emoji_ios_category_smileysandpeople"
            tools:ignore="ContentDescription"/>

        <com.vanniktech.emoji.EmojiMultiAutoCompleteTextView
            android:id="@+id/editText"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:imeOptions="actionSend|flagNoExtractUi"
            android:inputType="textCapSentences|textMultiLine"
            android:maxLines="3"
            android:hint="Tulis pesan..."/>

        <ImageView
            android:id="@+id/send"
            android:layout_width="48dp"
            android:layout_height="48dp"
            android:background="@drawable/shapelogin"
            android:padding="12dp"
            android:scaleType="centerCrop"

            android:layout_gravity="center|center_horizontal|center_vertical"
            app:srcCompat="@drawable/ic_send_white_24dp"

            tools:ignore="ContentDescription,VectorDrawableCompat"/>

    </LinearLayout>
</RelativeLayout>

</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

### 12.5 activity\_chatkontak.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"

```

```

        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <com.google.android.material.appbar.AppBarLayout
            android:id="@+id/appBarLayout"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"

            android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

            <androidx.appcompat.widget.Toolbar
                android:id="@+id/toolbar"
                android:layout_width="match_parent"
                android:layout_height="?attr/actionBarSize"
                app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
                android:background="@color/colorPrimary"/>
        </com.google.android.material.appbar.AppBarLayout>

        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginTop="60dp">
            <TextView
                android:text="Total 0"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:gravity="center"
                android:id="@+id/texttotal"/>

            <androidx.recyclerview.widget.RecyclerView
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:id="@+id/recycler_view"
                android:layout_below="@+id/texttotal"/>
        </RelativeLayout>

        <ProgressBar
            android:id="@+id/pbLoading"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_centerInParent="true"
            android:layout_gravity="center"
            style="@style/AppTheme"/>
    </androidx.coordinatorlayout.widget.CoordinatorLayout>

```

## 12.6 activity\_connect.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout

```

```
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="@drawable/bggradient"
android:orientation="vertical"
android:scrollbarAlwaysDrawVerticalTrack="true">
```

<RelativeLayout

```
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:layout_marginTop="70dp"
    android:background="#fff"
    android:elevation="4dp"
    android:orientation="vertical"
    android:padding="20dp">
```

<LinearLayout

```
    android:id="@+id/linearlayout1"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:paddingTop="30dp">
```

<ImageButton

```
    android:id="@+id/user_profile_photo"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_gravity="center_horizontal"
    android:background="@drawable/disconnect"/>
```

<TextView

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"
    android:paddingTop="15dp"
    android:textColor="@color/black"
    android:textSize="@dimen/dp_30"
    android:text="Koneksi Gagal"/>
```

<TextView

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"
    android:textAlignment="center"
    android:paddingTop="25dp"
    android:textColor="@color/black"
```

```

        android:textSize="@dimen/dp_18"
        android:text="Tidak dapat terhubung ke
server.\nSilahkan periksa koneksi internet."/>
        <Button
            android:id="@+id/btnRetry"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="40dp"
            android:layout_marginLeft="50dp"
            android:layout_marginRight="50dp"
            android:background="@drawable/shapelogin"
            android:onClick="True"
            android:text="Coba Lagi"
            android:textAllCaps="false"
            android:textColor="#fff"
            android:textSize="18sp"/>
    </LinearLayout>
    <ProgressBar
        android:id="@+id/pbLoading"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:layout_gravity="center"
        style="@style/AppTheme"/>
</RelativeLayout>

</RelativeLayout>

```

### 12.7 activity\_daftar.xml

```

<?xml version="1.0" encoding="utf-8"?>
<ScrollView
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:orientation="vertical"
    android:scrollbarAlwaysDrawVerticalTrack="true"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:background="@drawable/bggradient"
            android:orientation="vertical"
            android:scrollbarAlwaysDrawVerticalTrack="true"

```

```
android:layout_marginBottom="70dp">
```

```
<RelativeLayout
```

```
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_marginLeft="30dp"  
    android:layout_marginRight="30dp"  
    android:layout_marginTop="70dp"  
    android:layout_marginBottom="70dp"  
    android:background="#fff"  
    android:elevation="4dp"  
    android:orientation="vertical"  
    android:padding="20dp">
```

```
<LinearLayout
```

```
    android:id="@+id/linearlayout1"  
    android:layout_width="fill_parent"  
    android:layout_height="wrap_content"  
    android:orientation="vertical"  
    android:paddingTop="30dp">
```

```
<com.google.android.material.textfield.TextInputLayout
```

```
    android:layout_width="match_parent"  
    android:layout_height="wrap_content">
```

```
<EditText
```

```
    android:id="@+id/inputNim"  
    android:layout_width="fill_parent"  
    android:layout_height="wrap_content"  
    android:drawableTint="#FF4081"  
    android:singleLine="true"  
    android:hint="Nim"
```

```
android:inputType="textCapCharacters|textCapSentences|textCapWords"/>
```

```
</com.google.android.material.textfield.TextInputLayout>
```

```
<com.google.android.material.textfield.TextInputLayout
```

```
    android:layout_width="match_parent"  
    android:layout_height="wrap_content">
```

```
<EditText
```

```
    android:id="@+id/inputNama"  
    android:layout_width="fill_parent"  
    android:layout_height="wrap_content"  
    android:drawableTint="#FF4081"  
    android:singleLine="true"  
    android:hint="Nama"
```

```

android:inputType="textCapCharacters|textCapSentences|textCapWords"/>

</com.google.android.material.textfield.TextInputLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <EditText
            android:id="@+id/inputEmail"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:drawableTint="#FF4081"
            android:singleLine="true"
            android:hint="Email"
            android:inputType="textEmailAddress"/>

    </com.google.android.material.textfield.TextInputLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:passwordToggleEnabled="true">

        <EditText
            android:id="@+id/inputPassword1"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="16dp"
            android:singleLine="true"
            android:drawableTint="#FF4081"
            android:hint="Password"
            android:inputType="textPassword"/>

    </com.google.android.material.textfield.TextInputLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:passwordToggleEnabled="true">

        <EditText
            android:id="@+id/inputPassword2"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="16dp"
            android:singleLine="true"

```

```

        android:drawableTint="#FF4081"
        android:hint="Ulangi Password"
        android:inputType="textPassword"/>
</com.google.android.material.textfield.TextInputLayout>

        <Button
            android:id="@+id/btnDaftar"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:layout_margin="22dp"
            android:background="@drawable/shapelogin"
            android:onClick="True"
            android:text="Daftar"
            android:textAllCaps="false"
            android:textColor="#fff"
            android:textSize="18sp"/>
    </LinearLayout>
    <RelativeLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/linearlayout1"
        android:layout_centerHorizontal="true">

        <TextView
            android:id="@+id/tpa"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Sudah punya akun?"
            android:layout_marginRight="10dp"/>

        <TextView
            android:id="@+id/tvLogin"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textColor="@color/colorPrimary"
            android:layout_toRightOf="@+id/tpa"
            android:text="Masuk"/>
    </RelativeLayout>
</RelativeLayout>

    <ImageButton
        android:id="@+id/user_profile_photo"
        android:layout_width="100dp"
        android:layout_height="100dp"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="16dp"
        android:background="@drawable/unibba_fti"
        android:elevation="4dp"/>

```



```
        </RelativeLayout>
    </LinearLayout>
</ScrollView>
```

## 12.8 activity\_fakultas.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:focusable="true"
    android:focusableInTouchMode="true">

    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/appBarLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

        android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
            android:background="@color/colorPrimary"/>
    </com.google.android.material.appbar.AppBarLayout>

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="60dp">

        <androidx.recyclerview.widget.RecyclerView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:id="@+id/recycler_view"/>
    </RelativeLayout>

    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|right"
        android:layout_margin="25dp"
        android:clickable="true"
```

```

        android:layout_above="@id/nav_view"
        android:src="@drawable/ic_add_white_24dp"
        app:backgroundTint="@color/blue"
        app:fabSize="mini"
        app:elevation="12dp"
        app:borderWidth="0dp"/>

<ProgressBar
    android:id="@+id/pbLoading"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_centerInParent="true"
    android:layout_gravity="center"
    style="@style/AppTheme"/>
</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

## 12.9 activity\_fakultas\_adapter.xml

```

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

    <androidx.cardview.widget.CardView
        android:id="@+id/card_view1"
        android:layout_width="match_parent"
        android:layout_margin="@dimen/row_padding"
        android:layout_height="wrap_content"
        android:padding="15dp"
        card_view:cardElevation="2dp"
        card_view:cardCornerRadius="4dp">

        <LinearLayout
            android:layout_margin="5dp"
            android:orientation="vertical"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">

            <RelativeLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content">

                <TextView
                    android:id="@+id/textNama"
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:layout_toLeftOf="@+id/imageedit"
                    android:fontFamily="sans-serif-medium"
                    android:textColor="@android:color/black"

```

```

        android:text="Fakultas Teknologi Informasi"/>

        <ImageView
            android:id="@+id/imageedit"
            android:layout_width="25dp"
            android:layout_height="25dp"
            android:layout_alignParentRight="true"
            android:scaleType="fitXY"
            android:layout_alignParentTop="true"
            android:layout_margin="@dimen/dp_4"

android:src="@drawable/ic_more_horiz_black_24dp"/>

        <TextView
            android:id="@+id/textlabelprodi"
            android:layout_width="100dp"
            android:layout_height="wrap_content"
            android:fontFamily="sans-serif-medium"
            android:layout_below="@+id/textNama"
            android:text="Program Studi"/>

        <TextView
            android:id="@+id/textProdi"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:fontFamily="sans-serif-medium"
            android:layout_below="@+id/textlabelprodi"
            android:layout_toLeftOf="@+id/imageedit"
            android:text="1. Teknik Informatika\n2. Sistem
Informasi"/>

    </RelativeLayout>
</LinearLayout>
</androidx.cardview.widget.CardView>
</RelativeLayout>

```

#### 12.10 activity\_forum.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/root_layout"
    android:focusable="true"
    android:focusableInTouchMode="true">

```

```

<com.google.android.material.appbar.AppBarLayout
    android:id="@+id/appBarLayout"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"

    android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

    <androidx.appcompat.widget.Toolbar
        android:id="@+id/toolbar"
        android:layout_width="match_parent"
        android:layout_height="?attr/actionBarSize"
        app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
        android:background="@color/colorPrimary"/>
</com.google.android.material.appbar.AppBarLayout>

<ScrollView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginTop="70dp">
    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <androidx.coordinatorlayout.widget.CoordinatorLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginBottom="10dp">

            <ImageView
                android:id="@+id/imageView"
                android:layout_width="150dp"
                android:layout_height="150dp"
                android:layout_alignParentTop="true"
                android:layout_centerHorizontal="true"
                android:layout_gravity="center"
                android:scaleType="fitXY"/>

        <com.google.android.material.floatingactionbutton.FloatingActionButton
            android:id="@+id/fab"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="bottom|right"
            android:layout_margin="5dp"
            android:clickable="true"

            android:src="@drawable/ic_camera_alt_white_24dp"
            app:backgroundTint="@color/blue"

```

```

        app:fabSize="mini"
        app:elevation="5dp"
        app:borderWidth="0dp"
        app:layout_anchorGravity="end|bottom"
        app:layout_anchor="@+id/imageView"/>

</androidx.coordinatorlayout.widget.CoordinatorLayout>

<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content">

    <com.google.android.material.textfield.TextInputEditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Tanggal Expired"
        android:id="@+id/inputExpired"/>
    </com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <com.google.android.material.textfield.TextInputEditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Judul"
            android:id="@+id/inputJudul"/>
        </com.google.android.material.textfield.TextInputLayout>
        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content">

            <com.google.android.material.textfield.TextInputEditText
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:hint="Deskripsi"
                android:id="@+id/inputDeskripsi"/>
            </com.google.android.material.textfield.TextInputLayout>

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="5dp">

        <ImageView
            android:id="@+id/imagelike"
            android:layout_width="20dp"
            android:layout_height="20dp"

```

```

        android:layout_alignParentLeft="true"
        android:scaleType="fitXY"
        android:layout_margin="@dimen/dp_4"
    android:src="@drawable/ic_thumb_up_black_24dp"/>

    <TextView
        android:text="0 Suka"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_toRightOf="@+id/imagelike"
        android:layout_margin="5dp"
        android:textColor="@color/black"
        android:id="@+id/textLike"/>

    <ImageView
        android:id="@+id/imagecomment"
        android:layout_width="20dp"
        android:layout_height="20dp"
        android:scaleType="fitXY"
        android:layout_margin="@dimen/dp_4"
        android:layout_toRightOf="@+id/textLike"
    android:src="@drawable/ic_comment_gray_24dp"/>

    <TextView
        android:text="0 Komentar"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_toRightOf="@+id/imagecomment"
        android:layout_margin="5dp"
        android:textColor="@color/black"
        android:id="@+id/textKomentar"/>

    <TextView
        android:text=""
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/imagelike"
        android:layout_marginBottom="5dp"
        android:textColor="@color/black"
        android:id="@+id/textLainnya"/>
</RelativeLayout>

<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/recycler_view"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>

```

```

        <LinearLayout
            android:id="@+id/emoji_bar"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_alignParentBottom="true"
            android:layout_marginTop="20dp"
            android:gravity="center_vertical"
            android:orientation="horizontal"
            android:padding="4dp">

            <ImageButton
                android:id="@+id/emojiButton"
                android:layout_width="48dp"
                android:layout_height="48dp"

                android:background="?attr/selectableItemBackgroundBorderless"
                android:padding="12dp"
                android:scaleType="centerCrop"

                app:srcCompat="@drawable/emoji_ios_category_smileysandpeople"
                tools:ignore="ContentDescription"/>

            <com.vanniktech.emoji.EmojiMultiAutoCompleteTextView
                android:id="@+id/editKomentar"
                android:layout_width="0dp"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:imeOptions="actionSend|flagNoExtractUi"

                android:inputType="textCapSentences|textMultiLine"
                android:maxLines="3"
                android:hint="Tulis komentar..."/>

            <ImageView
                android:id="@+id/btnKomentar"
                android:layout_width="48dp"
                android:layout_height="48dp"
                android:background="@drawable/shapelogin"
                android:padding="12dp"
                android:scaleType="centerCrop"

                android:layout_gravity="center|center_horizontal|center_vertical"

                app:srcCompat="@drawable/ic_comment_white_24dp"

                tools:ignore="ContentDescription,VectorDrawableCompat"/>

```

```

        </LinearLayout>
    </LinearLayout>
</ScrollView>

<ProgressBar
    android:id="@+id/pbLoading"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_centerInParent="true"
    android:layout_gravity="center"
    style="@style/AppTheme"/>
</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

### 12.11 activity\_forum\_komentar.xml

```

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

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/textKomentar"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Komentar"/>

    </com.google.android.material.textfield.TextInputLayout>
</LinearLayout>

```

### 12.12 activity\_imageview.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/black">

    <com.google.android.material.appbar.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

        android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

```



```

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            android:background="@color/black"

app:popupTheme="@style/ThemeOverlay.AppCompat.Light"/>

    </com.google.android.material.appbar.AppBarLayout>

    <com.github.chrisbanes.photoview.PhotoView
        android:id="@+id/imageView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="60dp"/>

    <ProgressBar
        android:id="@+id/pbLoading"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:layout_gravity="center"/>

</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

### 12.13 activity\_laporan\_data\_alumni.xml

```

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

    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/appBarLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
            android:background="@color/colorPrimary"/>

    </com.google.android.material.appbar.AppBarLayout>

```

```

<androidx.recyclerview.widget.RecyclerView
    android:layout_marginTop="60dp"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/recycler_view"/>

<com.google.android.material.floatingactionbutton.FloatingActionButton
    android:id="@+id/fab"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="bottom|right"
    android:layout_margin="25dp"
    android:clickable="true"
    android:layout_above="@id/nav_view"
    android:src="@drawable/ic_search_white_24dp"
    app:backgroundTint="@color/blue"
    app:fabSize="mini"
    app:elevation="12dp"
    app:borderWidth="0dp"/>

<ProgressBar
    android:id="@+id/pbLoading"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_centerInParent="true"
    android:layout_gravity="center"
    style="@style/AppTheme"/>
</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

#### 12.14 activity\_laporan\_rekap\_data\_tracer\_alumni.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:focusable="true"
    android:focusableInTouchMode="true">

    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/appBarLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

        android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

        <androidx.appcompat.widget.Toolbar

```

```

        android:id="@+id/toolbar"
        android:layout_width="match_parent"
        android:layout_height="?attr/actionBarSize"
        app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
        android:background="@color/colorPrimary"/>
</com.google.android.material.appbar.AppBarLayout>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view0"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="60dp"
    android:layout_marginBottom="10dp">
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_toLeftOf="@+id/btnfilter"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="5dp">

            <com.google.android.material.textfield.TextInputEditText
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:hint="Masukan Tahun"
                android:inputType="number"
                android:id="@+id/texttahun"/>
            </com.google.android.material.textfield.TextInputLayout>
            <Button
                android:text="Filter"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:background="@drawable/shapellogin"
                android:layout_centerVertical="true"
                android:layout_marginRight="5dp"
                android:textColor="@color/white"
                android:textStyle="bold"
                android:layout_alignParentRight="true"
                android:id="@+id/btnfilter"/>
            </RelativeLayout>
        </androidx.cardview.widget.CardView>
    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="125dp">

```

```

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

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="Pedoman Kemenristekdikti No.
471/B/SE/2017 tentang Pelaksanaan Tracer Study di Perguruan Tinggi"
        android:textSize="16dp"
        android:layout_margin="5dp"
        android:textColor="@color/black"
        android:textStyle="bold"
        android:visibility="visible"/>

    <androidx.cardview.widget.CardView
        android:id="@+id/card_view1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:layout_marginBottom="10dp"
        android:visibility="visible">

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

            <TextView
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:text="Informasi Tentang Responden ."
                android:textSize="16sp"
                android:layout_margin="5dp"
                android:textColor="@color/colorPrimary"
                android:textStyle="bold"/>

            <RelativeLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content">

                <TextView
                    android:text=" Keterangan tentang lulusan
"

                    android:gravity="center"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:layout_alignParentLeft="true"
                    android:layout_marginLeft="5dp"

```

```

        android:layout_marginTop="15dp"

        android:layout_toLeftOf="@+id/textView8"
        android:background="@drawable/border"
        android:id="@+id/textView7"/>
        <TextView
            android:text="Jumlah"
            android:gravity="center"
            android:layout_width="80dp"
            android:layout_height="wrap_content"

        android:layout_toLeftOf="@+id/textView9"

        android:layout_alignTop="@+id/textView7"

        android:layout_alignBottom="@+id/textView7"
        android:background="@drawable/border"
        android:id="@+id/textView8"/>
        <TextView
            android:text="Persentase"
            android:gravity="center"
            android:layout_marginRight="5dp"
            android:layout_width="80dp"
            android:layout_height="wrap_content"
            android:background="@drawable/border"

        android:layout_alignTop="@+id/textView7"

        android:layout_alignBottom="@+id/textView7"
        android:layout_alignParentRight="true"
        android:id="@+id/textView9"/>
    </RelativeLayout>

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/rv_responden"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginBottom="15dp"/>
    </LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:id="@+id/card_view2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
    android:layout_marginBottom="10dp"
    android:visibility="visible">

```

```

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

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="Informasi Masa Tunggu Kerja :"
        android:textSize="16sp"
        android:layout_margin="5dp"
        android:textColor="@color/colorPrimary"
        android:textStyle="bold"/>

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <TextView
            android:text="Pertanyaan"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:gravity="center"
            android:layout_marginLeft="5dp"
            android:layout_marginTop="15dp"
            android:background="@drawable/border"

android:layout_toLeftOf="@+id/textView11"
            android:id="@+id/textView10"/>
        <TextView
            android:text="Jawaban"
            android:layout_width="110dp"
            android:layout_height="wrap_content"
            android:background="@drawable/border"
            android:gravity="center"

android:layout_alignTop="@+id/textView10"
            android:layout_alignBottom="@+id/textView10"

android:layout_toLeftOf="@+id/textView12"
            android:id="@+id/textView11"/>
        <TextView
            android:text="Jumlah"
            android:layout_width="80dp"
            android:layout_height="wrap_content"
            android:gravity="center"

```

```

android:layout_alignTop="@+id/textView10"

android:layout_alignBottom="@+id/textView10"

android:layout_toLeftOf="@+id/textView13"
    android:background="@drawable/border"
    android:id="@+id/textView12"/>
    <TextView
        android:text="Persentase"
        android:layout_width="80dp"
        android:layout_height="wrap_content"
        android:layout_marginRight="5dp"
        android:gravity="center"
        android:layout_alignParentRight="true"
        android:background="@drawable/border"

android:layout_alignTop="@+id/textView10"

android:layout_alignBottom="@+id/textView10"
    android:id="@+id/textView13"/>
    <TextView
        android:text="Kapan anda mulai
bekerja?"

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:layout_marginLeft="5dp"
        android:background="@drawable/border"

android:layout_toLeftOf="@+id/textView11"

android:layout_below="@+id/textView10"

android:layout_alignBottom="@+id/rv_informasi_masa_tunggu_kerja"
    android:id="@+id/textView14"/>
    <androidx.recyclerview.widget.RecyclerView

android:id="@+id/rv_informasi_masa_tunggu_kerja"
    android:layout_width="match_parent"
    android:layout_height="match_parent"

android:layout_toRightOf="@+id/textView14"

android:layout_below="@+id/textView10"
    android:layout_marginRight="5dp"
    android:layout_marginBottom="15dp"/>
    </RelativeLayout>
</LinearLayout>

```

```

</androidx.cardview.widget.CardView>

<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:text="Pedoman Kemenristekdikti No.
471/B/SE/VII/2017 tentang Pelaksanaan Tracer Study di Perguruan Tinggi"
    android:textSize="16dp"
    android:layout_margin="5dp"
    android:textColor="@color/black"
    android:textStyle="bold"
    android:visibility="visible"/>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view3"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
    android:layout_marginBottom="10dp"
    android:visibility="visible">

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

        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:text="Daya Saing Lulusan"
            android:textSize="16sp"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:textStyle="bold"/>

        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:text="Jumlah lulusan yang
memberikan jawaban pada kegiatan studi penelusuran lulusan dalam 3 (tiga)
tahun, mulai TS-4 sampai dengan TS-2"
            android:layout_margin="5dp"/>

        <HorizontalScrollView
            android:id="@+id/horizontalScroll2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="15dp"
            android:animateLayoutChanges="true"
            android:scrollbars="none">

```



```

        <LinearLayout
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:orientation="vertical">
            <RelativeLayout

android:layout_width="wrap_content"
android:layout_height="wrap_content">

                <TextView
                    android:text="No"
                    android:layout_width="35dp"

android:layout_height="wrap_content"

                    android:gravity="center"

android:layout_marginLeft="5dp"
android:background="@drawable/border"
android:layout_alignParentTop="true"
android:layout_alignBottom="@+id/textViewdyl3"

android:id="@+id/textViewdyl1"/>
                <TextView
                    android:text="Program
Pendidikan"
                    android:layout_width="150dp"

android:layout_height="wrap_content"

                    android:gravity="center"

android:background="@drawable/border"
android:layout_toRightOf="@+id/textViewdyl1"
android:layout_alignParentTop="true"
android:layout_alignBottom="@+id/textViewdyl3"
android:id="@+id/textViewdyl2"/>
                <TextView
                    android:text="Jumlah Lulusan"

android:layout_width="match_parent"

```

```

android:layout_height="wrap_content"
                                android:gravity="center"

android:background="@drawable/border"

android:layout_toRightOf="@+id/textViewdyl2"

android:layout_alignRight="@+id/textViewdyl5"

android:layout_alignParentTop="true"

android:layout_alignBottom="@+id/textViewdyl678"

android:id="@+id/textViewdyl345"/>
                                <TextView
                                    android:text="TS-4"
                                    android:layout_width="80dp"

android:layout_height="wrap_content"

android:background="@drawable/border"
                                android:gravity="center"

android:layout_toRightOf="@+id/textViewdyl2"

android:layout_below="@+id/textViewdyl678"

android:id="@+id/textViewdyl3"/>
                                <TextView
                                    android:text="TS-3"
                                    android:layout_width="80dp"

android:layout_height="wrap_content"
                                android:gravity="center"

android:background="@drawable/border"

android:layout_below="@+id/textViewdyl678"

android:layout_toRightOf="@+id/textViewdyl3"

android:id="@+id/textViewdyl4"/>
                                <TextView
                                    android:text="TS-2"
                                    android:layout_width="80dp"

android:layout_height="wrap_content"

```

```

                                android:gravity="center"

android:background="@drawable/border"

android:layout_below="@+id/textViewdyl678"

android:layout_toRightOf="@+id/textViewdyl4"

android:id="@+id/textViewdyl5"/>
                                <TextView
                                    android:text="Jumlah Lulusan
yang memberikan Jawaban"
                                </TextView>

android:layout_width="match_parent"

android:layout_height="wrap_content"

                                android:gravity="center"

android:background="@drawable/border"

android:layout_toRightOf="@+id/textViewdyl5"

android:layout_alignRight="@+id/textViewdyl8"

android:id="@+id/textViewdyl678"/>
                                <TextView
                                    android:text="TS-4"
                                    android:layout_width="80dp"

                                </TextView>

                                android:gravity="center"

                                android:layout_height="wrap_content"

                                android:background="@drawable/border"

                                android:layout_below="@+id/textViewdyl678"

                                android:layout_toRightOf="@+id/textViewdyl5"

                                android:id="@+id/textViewdyl6"/>
                                    <TextView
                                        android:text="TS-3"
                                        android:layout_width="80dp"

                                    </TextView>

                                android:gravity="center"

                                android:layout_height="wrap_content"

                                android:background="@drawable/border"

```

```

android:layout_below="@+id/textViewdyl678"

android:layout_toRightOf="@+id/textViewdyl6"

android:id="@+id/textViewdyl7"/>
        <TextView
            android:text="TS-2"
            android:layout_width="80dp"

android:layout_height="wrap_content"

            android:gravity="center"

android:background="@drawable/border"

android:layout_below="@+id/textViewdyl678"

android:layout_toRightOf="@+id/textViewdyl7"

android:id="@+id/textViewdyl8"/>

        </RelativeLayout>
        <androidx.recyclerview.widget.RecyclerView

android:id="@+id/rv_daya_saing_lulusan"

android:layout_width="match_parent"

android:layout_height="match_parent"

            android:layout_marginLeft="5dp"

android:layout_marginBottom="15dp"/>

        </LinearLayout>
        </HorizontalScrollView>
        </LinearLayout>
        </androidx.cardview.widget.CardView>

        <androidx.cardview.widget.CardView
            android:id="@+id/card_view4"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="10dp"
            android:layout_marginBottom="10dp"
            android:visibility="visible">

            <LinearLayout
                android:orientation="vertical"
                android:layout_width="match_parent"

```

```

        android:layout_height="wrap_content">

        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:text="Waktu Tunggu Lulusan"
            android:textSize="16sp"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:textStyle="bold"/>

        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:text="Rata-rata masa tunggu lulusan
untuk mendapatkan pekerjaan pertama dalam 3 (tiga) tahun, mulai TS-4 sampai
dengan TS-2"
            android:layout_margin="5dp"/>

        <androidx.recyclerview.widget.RecyclerView
            android:id="@+id/rv_waktu_tunggu_lulusan"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginTop="15dp"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="5dp"
            android:layout_marginBottom="15dp"/>

    </LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view5"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
    android:layout_marginBottom="10dp"
    android:visibility="visible">

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

        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:text="Kesesuaian Bidang Kerja

```

Lulusan"

```
        android:textSize="16sp"
        android:layout_margin="5dp"
        android:textColor="@color/colorPrimary"
        android:textStyle="bold"/>
    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/rv_kesesuaian"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginBottom="15dp"/>
</LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view6"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
    android:layout_marginBottom="10dp"
    android:visibility="visible">

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

        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:text="Kinerja Lulusan"
            android:textSize="16sp"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:textStyle="bold"/>

        <androidx.recyclerview.widget.RecyclerView
            android:id="@+id/rv_kinerja_lulusan"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginBottom="15dp"/>

    </LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view7"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:visibility="visible"
    android:layout_marginTop="10dp"
```

```

        android:layout_marginBottom="10dp">

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

            <TextView
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:text="Kepuasan Pengguna Lulusan"
                android:textSize="16sp"
                android:layout_margin="5dp"
                android:textColor="@color/colorPrimary"
                android:textStyle="bold"/>

            <HorizontalScrollView
                android:id="@+id/horizontalScroll"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginTop="15dp"
                android:animateLayoutChanges="true"
                android:scrollbars="none">

                <LinearLayout
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:orientation="vertical">

                    <RelativeLayout

android:layout_width="wrap_content"

android:layout_height="wrap_content">

                                <TextView
                                    android:text="No"
                                    android:layout_width="35dp"

android:layout_height="wrap_content"

                                    android:gravity="center"

android:layout_marginLeft="5dp"

android:background="@drawable/border"

android:layout_alignParentTop="true"

android:layout_alignBottom="@+id/textViewkp3"

```

```

android:id="@+id/textViewkp1"/>
        <TextView
            android:text="Aspek Penilaian"
            android:layout_width="150dp"

android:layout_height="wrap_content"

            android:gravity="center"

android:background="@drawable/border"

android:layout_toRightOf="@+id/textViewkp1"

android:layout_alignParentTop="true"

android:layout_alignBottom="@+id/textViewkp3"

android:id="@+id/textViewkp2"/>
        <TextView
            android:text="Hasil Penilaian
(%)
"
            android:layout_width="match_parent"

android:layout_height="wrap_content"

            android:gravity="center"

android:background="@drawable/border"

android:layout_toRightOf="@+id/textViewkp2"

android:layout_alignRight="@+id/textViewkp6"

android:id="@+id/textViewkp3456"/>
        <TextView
            android:text="SangatBaik"
            android:layout_width="80dp"

android:layout_height="wrap_content"

android:background="@drawable/border"

            android:gravity="center"

android:layout_toRightOf="@+id/textViewkp2"

android:layout_below="@+id/textViewkp3456"

android:id="@+id/textViewkp3"/>
        <TextView

```



```

        android:text="Baik"
        android:layout_width="80dp"

    android:layout_height="wrap_content"

        android:gravity="center"

    android:background="@drawable/border"

    android:layout_below="@+id/textViewkp3456"

    android:layout_toRightOf="@+id/textViewkp3"

    android:id="@+id/textViewkp4"/>
        <TextView
            android:text="Cukup"
            android:layout_width="80dp"

        android:layout_height="wrap_content"

            android:gravity="center"

        android:background="@drawable/border"

        android:layout_below="@+id/textViewkp3456"

        android:layout_toRightOf="@+id/textViewkp4"

        android:id="@+id/textViewkp5"/>
            <TextView
                android:text="Kurang"
                android:layout_width="80dp"

            android:layout_height="wrap_content"

            android:layout_marginRight="5dp"

                android:gravity="center"

            android:background="@drawable/border"

            android:layout_below="@+id/textViewkp3456"

            android:layout_toRightOf="@+id/textViewkp5"

            android:id="@+id/textViewkp6"/>
        </RelativeLayout>
        <androidx.recyclerview.widget.RecyclerView

    android:id="@+id/rv_kepuasan_lulusan"

```

```

android:layout_width="match_parent"

android:layout_height="wrap_content"
                                android:layout_marginLeft="5dp"

android:layout_marginBottom="15dp"/>
                                </LinearLayout>
                                </HorizontalScrollView>
                                </LinearLayout>
                                </androidx.cardview.widget.CardView>
                                </LinearLayout>
                                </ScrollView>

</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

#### 12.15 activity\_laporan\_rekap\_data\_tracer\_alumni\_daya\_saing\_lulusan.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content">

    <TextView
        android:text="No"
        android:layout_width="35dp"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:background="@drawable/border"
        android:layout_alignParentTop="true"
        android:layout_alignBottom="@+id/textViewdy12"
        android:id="@+id/textViewdy11"/>

    <TextView
        android:text="Program Pendidikan"
        android:layout_width="150dp"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:background="@drawable/border"
        android:layout_toRightOf="@+id/textViewdy11"
        android:layout_alignParentTop="true"
        android:id="@+id/textViewdy12"/>

    <TextView
        android:text="TS-4"
        android:layout_width="80dp"
        android:layout_height="wrap_content"
        android:background="@drawable/border"
        android:gravity="center"
        android:layout_toRightOf="@+id/textViewdy12"
        android:layout_alignParentTop="true"

```

```

        android:layout_alignBottom="@+id/textViewdy12"
        android:id="@+id/textViewdy13"/>
<TextView
    android:text="TS-3"
    android:layout_width="80dp"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:background="@drawable/border"
    android:layout_toRightOf="@+id/textViewdy13"
    android:layout_alignParentTop="true"
    android:layout_alignBottom="@+id/textViewdy12"
    android:id="@+id/textViewdy14"/>
<TextView
    android:text="TS-2"
    android:layout_width="80dp"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:background="@drawable/border"
    android:layout_toRightOf="@+id/textViewdy14"
    android:layout_alignParentTop="true"
    android:layout_alignBottom="@+id/textViewdy12"
    android:id="@+id/textViewdy15"/>
<TextView
    android:text="TS-4"
    android:layout_width="80dp"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:background="@drawable/border"
    android:layout_toRightOf="@+id/textViewdy15"
    android:layout_alignParentTop="true"
    android:layout_alignBottom="@+id/textViewdy12"
    android:id="@+id/textViewdy16"/>
<TextView
    android:text="TS-3"
    android:layout_width="80dp"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:background="@drawable/border"
    android:layout_toRightOf="@+id/textViewdy16"
    android:layout_alignParentTop="true"
    android:layout_alignBottom="@+id/textViewdy12"
    android:id="@+id/textViewdy17"/>
<TextView
    android:text="TS-2"
    android:layout_width="80dp"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:background="@drawable/border"

```

```
        android:layout_toRightOf="@+id/textViewdy17"
        android:layout_alignParentTop="true"
        android:layout_alignBottom="@+id/textViewdy12"
        android:id="@+id/textViewdy18"/>
```

```
</RelativeLayout>
```

#### 12.16 activity\_laporan\_rekap\_tracer\_alumni\_info\_masa\_tunggu\_kerja.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:android="http://schemas.android.com/apk/res/android">

    <TextView
        android:text="Jawaban"
        android:layout_width="125dp"
        android:layout_height="wrap_content"
        android:background="@drawable/border"
        android:gravity="left"
        android:layout_toLeftOf="@+id/textjumlah"
        android:id="@+id/textjawaban"/>

    <TextView
        android:text="Jumlah"
        android:layout_width="80dp"
        android:layout_height="wrap_content"
        android:gravity="right"
        android:layout_toLeftOf="@+id/textpersentase"
        android:layout_alignTop="@+id/textjawaban"
        android:layout_alignBottom="@+id/textjawaban"
        android:background="@drawable/border"
        android:id="@+id/textjumlah"/>

    <TextView
        android:text="Persentase"
        android:layout_width="80dp"
        android:layout_height="wrap_content"
        android:gravity="right"
        android:layout_alignParentRight="true"
        android:layout_alignTop="@+id/textjawaban"
        android:layout_alignBottom="@+id/textjawaban"
        android:background="@drawable/border"
        android:id="@+id/textpersentase"/>

</RelativeLayout>
```

#### 12.17 activity\_laporan\_rekap\_tracer\_alumni\_kepuasan\_pengguna.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
```

```
<TextView
    android:text="No"
    android:layout_width="35dp"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:background="@drawable/border"
    android:layout_alignParentTop="true"
    android:layout_alignBottom="@+id/textNama"
    android:id="@+id/textNo"/>
```

```
<TextView
    android:text="Aspek Penilaian"
    android:layout_width="150dp"
    android:layout_height="wrap_content"
    android:gravity="left"
    android:background="@drawable/border"
    android:layout_toRightOf="@+id/textNo"
    android:layout_alignParentTop="true"
    android:id="@+id/textNama"/>
```

```
<TextView
    android:text="SangatBaik"
    android:layout_width="80dp"
    android:layout_height="wrap_content"
    android:background="@drawable/border"
    android:gravity="right"
    android:layout_alignParentTop="true"
    android:layout_toRightOf="@+id/textNama"
    android:layout_alignBottom="@+id/textNama"
    android:id="@+id/text1"/>
```

```
<TextView
    android:text="Baik"
    android:layout_width="80dp"
    android:layout_height="wrap_content"
    android:gravity="right"
    android:background="@drawable/border"
    android:layout_alignParentTop="true"
    android:layout_toRightOf="@+id/text1"
    android:layout_alignBottom="@+id/textNama"
    android:id="@+id/text2"/>
```

```
<TextView
    android:text="Cukup"
    android:layout_width="80dp"
    android:layout_height="wrap_content"
    android:gravity="right"
    android:background="@drawable/border"
    android:layout_alignParentTop="true"
```

```

        android:layout_toRightOf="@+id/text2"
        android:layout_alignBottom="@+id/textNama"
        android:id="@+id/text3"/>
    <TextView
        android:text="Kurang"
        android:layout_width="80dp"
        android:layout_height="wrap_content"
        android:gravity="right"
        android:background="@drawable/border"
        android:layout_alignParentTop="true"
        android:layout_toRightOf="@+id/text3"
        android:layout_alignBottom="@+id/textNama"
        android:id="@+id/text4"/>
</RelativeLayout>

```

#### 12.18 activity\_laporan\_rekap\_tracer\_alumni\_responden.xml

```

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

    <TextView
        android:text=" Keterangan tentang lulusan "
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_marginLeft="5dp"
        android:layout_toLeftOf="@+id/textjumlah"
        android:background="@drawable/border"
        android:id="@+id/textnama"/>

    <TextView
        android:text="82 "
        android:gravity="right"
        android:layout_width="80dp"
        android:layout_height="wrap_content"
        android:layout_toLeftOf="@+id/textpersentase"
        android:layout_alignTop="@+id/textnama"
        android:layout_alignBottom="@+id/textnama"
        android:background="@drawable/border"
        android:id="@+id/textjumlah"/>

    <TextView
        android:text="100% "
        android:gravity="right"
        android:layout_marginRight="5dp"
        android:layout_width="80dp"
        android:layout_height="wrap_content"
        android:layout_alignTop="@+id/textnama"

```

```

        android:layout_alignBottom="@+id/textnama"
        android:background="@drawable/border"
        android:layout_alignParentRight="true"
        android:id="@+id/textpersentase"/>
</RelativeLayout>

```

## 12.19 activity\_list\_alumni.xml

```

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

    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/appBarLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

        android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
            android:background="@color/colorPrimary"/>
    </com.google.android.material.appbar.AppBarLayout>
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="60dp">

        <TextView
            android:text="Total 0"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:gravity="center"
            android:id="@+id/texttotal"/>

        <androidx.recyclerview.widget.RecyclerView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:id="@+id/recycler_view"
            android:layout_below="@+id/texttotal"/>
    </RelativeLayout>

    <!--<com.google.android.material.floatingactionbutton.FloatingActionButton-->
        <!--android:id="@+id/fab"-->
        <!--android:layout_width="wrap_content"-->

```

```

<!--android:layout_height="wrap_content"-->
<!--android:layout_gravity="bottom|right"-->
<!--android:layout_margin="25dp"-->
<!--android:clickable="true"-->
<!--android:layout_above="@id/nav_view"-->
<!--android:src="@drawable/ic_search_white_24dp"-->
<!--app:backgroundTint="@color/blue"-->
<!--app:fabSize="mini"-->
<!--app:elevation="12dp"-->
<!--app:borderWidth="0dp"/>-->

<ProgressBar
    android:id="@+id/pbLoading"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_centerInParent="true"
    android:layout_gravity="center"
    style="@style/AppTheme"/>
</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

## 12.20 activity\_list\_alumni\_adapter.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="10dp"
    android:background="?attr/selectableItemBackground">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:layout_centerVertical="true"
        android:layout_alignParentTop="true"
        android:layout_marginTop="6dp"
        android:layout_marginRight="10dp"/>

    <TextView
        android:text="[C1A150029] DENI HIDAYAT"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="14dp"
        android:textColor="@color/black"
        android:layout_below="@+id/labelTanggal"
        android:layout_toRightOf="@+id/imageView"
        android:id="@+id/textNama"/>

```





```

        android:layout_height="wrap_content"
        android:drawableTint="#FF4081"
        android:singleLine="true"
        android:hint="Email"
        android:inputType="text"/>
</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    app:passwordToggleEnabled="true">

    <EditText
        android:id="@+id/inputPassword"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:singleLine="true"
        android:drawableTint="#FF4081"
        android:hint="Password"
        android:inputType="textPassword"/>
</com.google.android.material.textfield.TextInputLayout>

<TextView
    android:id="@+id/tvForgot"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="right"
    android:paddingTop="5dp"
    android:text="Forgot Password?"/>

<Button
    android:id="@+id/btnLogin"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_margin="22dp"
    android:background="@drawable/shapellogin"
    android:onClick="True"
    android:text="Login"
    android:textAllCaps="false"
    android:textColor="#fff"
    android:textSize="18sp"/>
</LinearLayout>
<RelativeLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/linearlayout1"
    android:layout_centerHorizontal="true">

```

```

        <TextView
            android:id="@+id/spa"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Belum punya akun?"
            android:layout_marginRight="10dp"/>
        <TextView
            android:id="@+id/tvDaftar"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textColor="@color/blue"
            android:layout_toRightOf="@+id/spa"
            android:text="Buat Akun"
            android:layout_marginTop="0dp" android:layout_alignParentTop="true"/>
    </RelativeLayout>
</RelativeLayout>

<ImageButton
    android:id="@+id/user_profile_photo"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="16dp"
    android:background="@drawable/unibba_fti"
    android:elevation="4dp"/>
</RelativeLayout>

```

## 12.22 activity\_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/container">

    <FrameLayout
        android:id="@+id/fl_container"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:layout_behavior="@string/appbar_scrolling_view_behavior"
    />

    <com.google.android.material.bottomnavigation.BottomNavigationView
        android:id="@+id/nav_view"
        android:layout_width="match_parent"
        android:layout_height="56dp"
    />

```

```

        android:layout_weight="1"
        android:layout_gravity="bottom"
        android:background="?android:attr/windowBackground"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"

app:itemTextAppearanceActive="@style/BottomNavigationView.Active"

app:itemTextAppearanceInactive="@style/BottomNavigationView"
    app:itemIconTint="@drawable/tab_selector"
    app:itemTextColor="@drawable/tab_selector"
    app:menu="@menu/bottom_nav_menu"
    app:labelVisibilityMode="labeled">

</com.google.android.material.bottomnavigation.BottomNavigationView>

    <com.google.android.material.floatingactionbutton.FloatingActionButton
android:id="@+id/fab"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="bottom|center"
    android:layout_margin="25dp"
    android:layout_above="@id/nav_view"
    android:src="@drawable/ic_notifications_black_24dp"
    app:backgroundTint="@color/white"

app:itemTextAppearanceActive="@style/BottomNavigationView.Active"

app:itemTextAppearanceInactive="@style/BottomNavigationView"
    app:fabSize="mini"
    app:elevation="12dp"
    app:borderWidth="0dp"/>
</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

### 12.23 activity\_pengelolaan\_users.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#FFFFFF">
    <com.google.android.material.appbar.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <com.google.android.material.tabs.TabLayout

```

```

        android:id="@+id/tabs"
        app:tabTextColor="#FFFFFF"
        app:tabSelectedTextColor="#FFFFFF"
        android:layout_width="match_parent"
        android:layout_height="?attr/actionBarSize"
        android:background="@color/blue"
        app:tabIndicatorColor="@color/white"
        app:tabMode="fixed"
        app:tabGravity="fill"/>
    </com.google.android.material.appbar.AppBarLayout>
    <androidx.viewpager.widget.ViewPager
        android:id="@+id/viewpager"
        android:layout_width="match_parent"
        android:layout_height="match_parent"

app:layout_behavior="@string/appbar_scrolling_view_behavior"/>
</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

#### 12.24 activity\_profil.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/root_layout"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

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

            <androidx.cardview.widget.CardView
                android:id="@+id/card_view1"
                android:layout_width="match_parent"
                android:layout_height="wrap_content">

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

                    <ImageView
                        android:id="@+id/imageView"
                        android:layout_width="150dp"

```

```
android:layout_height="150dp"
android:layout_alignParentTop="true"
android:layout_centerHorizontal="true"
android:layout_marginTop="10dp"
android:layout_marginBottom="25dp"
android:layout_gravity="center"
android:scaleType="fitXY"/>
```

```
<TextView
```

```
    android:text="DENI HIDAYAT"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16dp"
    android:textColor="@color/black"
    android:layout_gravity="center"
    android:gravity="center_horizontal"
    android:id="@+id/textNama"/>
```

```
<TextView
```

```
    android:text="bismilah terus berdoa, berjuang
```

dan semangat"

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="12dp"
    android:textColor="@color/black"
    android:layout_gravity="center"
    android:gravity="center_horizontal"
    android:layout_marginBottom="20dp"
    android:id="@+id/textTentang"/>
```

```
<TextView
```

```
    android:text="Angkatan"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="14dp"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/colorPrimary"
    android:id="@+id/labelangkatan"/>
```

```
<TextView
```

```
    android:text="2015"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16dp"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:id="@+id/textAngkatan"/>
```

```
<TextView
```

```

        android:text="Program Studi"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="14dp"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/colorPrimary"
        android:id="@+id/labelprodi"/>
<TextView
        android:text="Teknik Informatika"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="16dp"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:id="@+id/textProdi"/>
<TextView
        android:text="Fakultas"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="14dp"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/colorPrimary"
        android:id="@+id/labelfakultas"/>
<TextView
        android:text="Teknologi Informasi"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="16dp"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:id="@+id/textFakultas"/>
<TextView
        android:text="Last Seen"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="14dp"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/colorPrimary"
        android:id="@+id/labelLastseen"/>
<TextView
        android:text="2019-09-30 06:21:00"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

```

```

        android:textSize="16dp"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:layout_marginBottom="20dp"
        android:id="@+id/textLastseen"/>

    </LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view3"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <TextView
            android:text="Tempat Bekerja"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="16dp"
            android:textColor="@color/colorPrimary"
            android:textStyle="bold"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="5dp"
            android:layout_marginBottom="15dp"
            android:id="@+id/labeltempatbekerja"/>

        <TextView
            android:text="Nama"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="14dp"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="5dp"
            android:textColor="@color/colorPrimary"
            android:id="@+id/labelnamainstansi"/>

        <TextView
            android:text="2019-09-30 06:21:00"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="16dp"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="5dp"

```



```
        android:textColor="@color/black"
        android:id="@+id/textNamainstansi"/>
```

```
<TextView
    android:text="Alamat"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="14dp"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/colorPrimary"
    android:id="@+id/labelalamatinstansi"/>
```

```
<TextView
    android:text="2019-09-30 06:21:00"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16dp"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:id="@+id/textAlamatinstansi"/>
```

```
<TextView
    android:text="No Telepon"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="14dp"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/colorPrimary"
    android:id="@+id/labelnotlpinstansi"/>
```

```
<TextView
    android:text="022-5952147"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16dp"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:layout_marginBottom="20dp"
    android:id="@+id/textNotlpinstansi"/>
```

```
</LinearLayout>
</androidx.cardview.widget.CardView>
</LinearLayout>
</ScrollView>
```

```

        <com.google.android.material.floatingactionbutton.FloatingActionButton
            android:id="@+id/fab"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="bottom|right"
            android:layout_margin="25dp"
            android:clickable="true"
            android:layout_above="@id/nav_view"
            android:src="@drawable/ic_message"
            app:backgroundTint="@color/blue"
            app:fabSize="normal"
            app:elevation="12dp"
            app:borderWidth="0dp"/>
    </androidx.coordinatorlayout.widget.CoordinatorLayout>

```

## 12.25 activity\_profile\_password.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/root_layout"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <LinearLayout
            android:orientation="vertical"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="22dp">
            <!--<com.google.android.material.textfield.TextInputLayout-->
                <!--android:layout_width="match_parent"-->
                <!--android:layout_height="wrap_content"-->
                <!--app:passwordToggleEnabled="true"-->

                <!--<EditText-->
                    <!--android:id="@+id/inputPassword1"-->
                    <!--android:layout_width="fill_parent"-->
                    <!--android:layout_height="wrap_content"-->
                    <!--android:layout_marginTop="16dp"-->
                    <!--android:singleLine="true"-->
                    <!--android:drawableTint="#FF4081"-->
                    <!--android:hint="Password Lama"-->
                    <!--android:inputType="textPassword"/>-->
            <!--</com.google.android.material.textfield.TextInputLayout-->
            <com.google.android.material.textfield.TextInputLayout

```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:passwordToggleEnabled="true">

        <EditText
            android:id="@+id/inputPassword2"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="16dp"
            android:singleLine="true"
            android:drawableTint="#FF4081"
            android:hint="Password Baru"
            android:inputType="textPassword"/>
    </com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:passwordToggleEnabled="true">

        <EditText
            android:id="@+id/inputPassword3"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="16dp"
            android:singleLine="true"
            android:drawableTint="#FF4081"
            android:hint="Ulangi Password Baru"
            android:inputType="textPassword"/>
    </com.google.android.material.textfield.TextInputLayout>
    <Button
        android:id="@+id/btnSimpan"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_margin="22dp"
        android:background="@drawable/shapelogin"
        android:onClick="True"
        android:text="Simpan"
        android:textAllCaps="false"
        android:textColor="#fff"
        android:textSize="18sp"/>

    </LinearLayout>
</ScrollView>
</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

#### 12.26 activity\_reset.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"

```

```
android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="@drawable/bggradient"
android:orientation="vertical"
android:scrollbarAlwaysDrawVerticalTrack="true">
```

```
<RelativeLayout
```

```
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:layout_marginTop="70dp"
    android:background="#fff"
    android:elevation="4dp"
    android:orientation="vertical"
    android:padding="20dp">
```

```
<LinearLayout
```

```
    android:id="@+id/linearlayout1"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">
```

```
<TextView
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Reset Password"
    android:gravity="center"
    android:textSize="18dp"
    android:layout_marginBottom="10dp"/>
```

```
<com.google.android.material.textfield.TextInputLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
```

```
<EditText
```

```
    android:id="@+id/inputEmail"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:drawableTint="#FF4081"
    android:singleLine="true"
    android:hint="Email"
    android:inputType="textEmailAddress"/>
```

```
</com.google.android.material.textfield.TextInputLayout>
```

```
<Button
```

```
    android:id="@+id/btnReset"
    android:layout_width="fill_parent"
```

```

        android:layout_height="wrap_content"
        android:layout_margin="22dp"
        android:background="@drawable/shapelogin"
        android:onClick="True"
        android:text="Reset"
        android:textAllCaps="false"
        android:textColor="#fff"
        android:textSize="18sp"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:text="Klik reset, dan tunggu email
konfirmasi\nreset password"
        android:layout_marginRight="10dp"/>
</LinearLayout>
</RelativeLayout>
</RelativeLayout>

```

#### 12.27 activity\_tracerstudy0.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bggradient"
    android:orientation="vertical"
    android:scrollbarAlwaysDrawVerticalTrack="true"
    android:id="@+id/root_layout">

    <RelativeLayout
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_margin="15dp"
        android:background="#fff"
        android:elevation="4dp"
        android:orientation="vertical"
        android:padding="5dp">

        <ScrollView
            android:layout_width="match_parent"
            android:layout_height="match_parent">
            <LinearLayout
                android:id="@+id/linearLayout1"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:orientation="vertical"
                android:paddingTop="20dp">

```

```

<ImageView
    android:layout_width="64dp"
    android:layout_height="64dp"
    android:layout_gravity="center_horizontal"
    android:background="@drawable/tracerstudy"
    android:layout_marginBottom="10dp"
    android:id="@+id/image_tracer"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textSize="18dp"
    android:layout_marginBottom="10dp"
    android:textColor="@color/black"
    android:gravity="center_horizontal"
    android:text="INFORMASI PENGISIAN
DATA\nTRACER STUDY ALUMNI"
    android:id="@+id/label_tracer"/>

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

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:clickable="true"
        android:layout_margin="5dp"

        android:background="?attr/selectableItemBackground"
        android:id="@+id/rl1">
        <TextView
            android:id="@+id/text1"
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:gravity="center"
            android:layout_centerVertical="true"
            android:layout_alignParentLeft="true"

            android:background="@drawable/shapelogin"
            android:layout_marginLeft="5dp"
            android:textSize="16dp"
            android:text="1"
            android:textStyle="bold"

```

```

        android:textColor="@color/white"/>

        <TextView
            android:text="Data Pribadi"
            android:layout_width="match_parent"
            android:layout_height="40dp"
            android:gravity="center_vertical"
            android:layout_centerHorizontal="true"
            android:layout_centerVertical="true"
            android:textColor="@color/black"
            android:textSize="16dp"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="5dp"
            android:layout_marginBottom="5dp"
            android:layout_toRightOf="@id/text1"

android:layout_toLeftOf="@+id/check1"/>
        <ImageView
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:layout_centerVertical="true"
            android:layout_alignParentRight="true"

android:src="@drawable/ic_check_gray_24dp"
            android:id="@+id/check1"/>
    </RelativeLayout>
    <View
        android:layout_width="match_parent"
        android:layout_height="0.5dp"
        android:background="@color/gray"/>
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:clickable="true"
        android:layout_margin="5dp"

android:background="?attr/selectableItemBackground"
        android:id="@+id/rl2">
        <TextView
            android:id="@+id/text2"
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:gravity="center"
            android:layout_centerVertical="true"
            android:layout_alignParentLeft="true"

android:background="@drawable/shapelogin"

```

```

        android:layout_marginLeft="5dp"
        android:textSize="16dp"
        android:text="2"
        android:textStyle="bold"
        android:textColor="@color/white"/>

        <TextView
            android:text="Pengalaman Metode

Penekanan Pembelajaran"

            android:layout_width="match_parent"
            android:layout_height="40dp"
            android:gravity="center_vertical"
            android:layout_centerHorizontal="true"
            android:layout_centerVertical="true"
            android:textColor="@color/black"
            android:textSize="16dp"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="5dp"
            android:layout_marginBottom="5dp"
            android:layout_toRightOf="@id/text2"

android:layout_toLeftOf="@+id/check2"/>
        <ImageView
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:layout_centerVertical="true"
            android:layout_alignParentRight="true"

android:src="@drawable/ic_check_gray_24dp"
            android:id="@+id/check2"/>
    </RelativeLayout>
    <View
        android:layout_width="match_parent"
        android:layout_height="0.5dp"
        android:background="@color/gray"/>
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:clickable="true"
        android:layout_margin="5dp"

android:background="?attr/selectableItemBackground"
        android:id="@+id/rl3">
        <TextView
            android:id="@+id/text3"
            android:layout_width="32dp"
            android:layout_height="32dp"

```



```

        android:gravity="center"
        android:layout_centerVertical="true"
        android:layout_alignParentLeft="true"

        android:background="@drawable/shapelogin"
        android:layout_marginLeft="5dp"
        android:textSize="16dp"
        android:text="3"
        android:textStyle="bold"
        android:textColor="@color/white"/>

        <TextView
            android:text="Kepuasan Pengguna

Lulusan"

            android:layout_width="match_parent"
            android:layout_height="40dp"
            android:gravity="center_vertical"
            android:layout_centerHorizontal="true"
            android:layout_centerVertical="true"
            android:textColor="@color/black"
            android:textSize="16dp"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="5dp"
            android:layout_marginBottom="5dp"
            android:layout_toRightOf="@id/text3"

        android:layout_toLeftOf="@+id/check3"/>
        <ImageView
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:layout_alignParentRight="true"

        android:src="@drawable/ic_check_gray_24dp"
            android:id="@+id/check3"
        android:layout_alignParentBottom="true"
            android:layout_marginBottom="7dp"/>
    </RelativeLayout>
    <View
        android:layout_width="match_parent"
        android:layout_height="0.5dp"
        android:background="@color/gray"/>
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:clickable="true"
        android:layout_margin="5dp"

```

```

android:background="?attr/selectableItemBackground"
        android:id="@+id/rl4">
        <TextView
            android:id="@+id/text4"
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:gravity="center"
            android:layout_centerVertical="true"
            android:layout_alignParentLeft="true"

android:background="@drawable/shapeloin"
        android:layout_marginLeft="5dp"
        android:textSize="16dp"
        android:text="4"
        android:textStyle="bold"
        android:textColor="@color/white"/>

        <TextView
            android:text="Riwayat Pekerjaan"
            android:layout_width="match_parent"
            android:layout_height="40dp"
            android:gravity="center_vertical"
            android:layout_centerHorizontal="true"
            android:layout_centerVertical="true"
            android:textColor="@color/black"
            android:textSize="16dp"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="5dp"
            android:layout_marginBottom="5dp"
            android:layout_toRightOf="@id/text4"

android:layout_toLeftOf="@+id/check4"/>
        <ImageView
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:layout_centerVertical="true"
            android:layout_alignParentRight="true"

android:src="@drawable/ic_check_gray_24dp"
        android:id="@+id/check4"/>
    </RelativeLayout>
</LinearLayout>
<TextView
    android:text="Catatan:\n*Pada Tahap ke 4 bagi
yang sudah bekerja"

    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center_vertical"

```

```

        android:textColor="@color/black"
        android:textSize="16dp"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:layout_marginTop="10dp"/>
    <Button
        android:id="@+id/btnSimpan"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"
        android:layout_marginBottom="40dp"
        android:background="@drawable/shapellogin"
        android:onClick="True"
        android:text="Simpan"
        android:textAllCaps="false"
        android:textColor="#fff"
        android:textSize="18sp"/>
</LinearLayout>
</ScrollView>
</RelativeLayout>

</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

#### 12.28 activity\_tracerstudy1.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bggradient"
    android:orientation="vertical"
    android:scrollbarAlwaysDrawVerticalTrack="true">

    <RelativeLayout
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_margin="15dp"
        android:background="#fff"
        android:elevation="4dp"
        android:orientation="vertical"
        android:padding="5dp">

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

```

```

<LinearLayout
    android:id="@+id/linearlayout1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:paddingTop="20dp">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:textSize="22dp"
        android:layout_marginBottom="10dp"
        android:textColor="@color/black"
        android:gravity="center_horizontal"
        android:text="Data Pribadi"
        android:id="@+id/label_tracer"/>

    <androidx.cardview.widget.CardView
        android:layout_width="match_parent"
        android:layout_margin="5dp"
        android:layout_height="wrap_content"
        android:padding="15dp"
        card_view:cardElevation="2dp"
        card_view:cardCornerRadius="4dp"
        android:id="@+id/card_view1">

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

            <com.google.android.material.textfield.TextInputLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="5dp">

                <EditText
                    android:id="@+id/inputNim"
                    android:layout_width="fill_parent"

            android:layout_height="wrap_content"

                    android:drawableTint="#FF4081"
                    android:singleLine="true"
                    android:hint="Nim"
                    android:inputType="text"
                    android:enabled="false"/>

```

```

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp">

    <EditText
        android:id="@+id/inputNama"
        android:layout_width="fill_parent"

android:layout_height="wrap_content"

        android:drawableTint="#FF4081"
        android:singleLine="true"
        android:hint="Nama"

android:inputType="textCapWords|textCapSentences|textCapCharacters"/>
</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp">

    <EditText
        android:id="@+id/inputEmail"
        android:layout_width="fill_parent"

android:layout_height="wrap_content"

        android:drawableTint="#FF4081"
        android:singleLine="true"
        android:hint="Email"

android:inputType="textEmailAddress"/>
</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp">

    <EditText
        android:id="@+id/inputNohp"
        android:layout_width="fill_parent"

android:layout_height="wrap_content"

```

```

        android:drawableTint="#FF4081"
        android:singleLine="true"
        android:hint="No Telepon / HP"
        android:inputType="phone"/>

</com.google.android.material.textfield.TextInputLayout>

        <TextView
            android:text="Program Studi"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="5dp"/>

<com.toptoeche.searchablespinnerlibrary.SearchableSpinner
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/prodi"
    android:layout_weight="1"/>

<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp">

        <EditText
            android:id="@+id/inputAngkatan"
            android:layout_width="fill_parent"

android:layout_height="wrap_content"

            android:drawableTint="#FF4081"
            android:singleLine="true"
            android:hint="Angkatan"
            android:inputType="number"/>

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp">

        <EditText
            android:id="@+id/inputAlamat"
            android:layout_width="fill_parent"

android:layout_height="wrap_content"

```

```

        android:drawableTint="#FF4081"
        android:singleLine="true"
        android:hint="Alamat"

        android:inputType="text|textMultiLine"/>
    </com.google.android.material.textfield.TextInputLayout>

    </LinearLayout>
</androidx.cardview.widget.CardView>

<Button
    android:id="@+id/btnSimpan"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:layout_marginLeft="20dp"
    android:layout_marginRight="20dp"
    android:layout_marginBottom="40dp"
    android:background="@drawable/shapelogin"
    android:onClick="True"
    android:text="Simpan"
    android:textAllCaps="false"
    android:textColor="#fff"
    android:textSize="18sp"/>
</LinearLayout>
</ScrollView>
<ProgressBar
    android:id="@+id/pbLoading"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_centerInParent="true"
    android:layout_gravity="center"
    style="@style/AppTheme"/>
</RelativeLayout>

</RelativeLayout>

```

#### 12.29 activity\_tracerstudy2.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:id="@+id/root_layout"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <RelativeLayout
        android:layout_width="match_parent"

```

```
android:layout_height="match_parent"
android:background="@drawable/bggradient"
android:orientation="vertical"
android:scrollbarAlwaysDrawVerticalTrack="true">
```

```
<RelativeLayout
```

```
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_margin="15dp"
    android:background="#fff"
    android:elevation="4dp"
    android:orientation="vertical"
    android:padding="5dp">
```

```
<TextView
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="10dp"
    android:textSize="22dp"
    android:textColor="@color/black"
    android:gravity="center_horizontal"
    android:text="Metode Pembelajaran"
    android:id="@+id/label_tracer1"/>
```

```
<TextView
```

```
    android:text="Menurut anda seberapa besar penekanan pada
metode pembelajaran di bawah ini dilaksanakan di program studi anda?\n\n*
Wajib diisi"
```

```
    android:textColor="@color/black"
    android:layout_marginLeft="10dp"
    android:layout_marginRight="10dp"
    android:layout_marginBottom="10dp"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/label_tracer2"
    android:layout_below="@+id/label_tracer1"/>
```

```
<ScrollView
```

```
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/scrollView1"
    android:layout_below="@+id/label_tracer2">
```

```
<LinearLayout
```

```
    android:id="@+id/linearlayout1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:paddingTop="10dp">
```



```

<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view1">

```

```

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

```

```

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:layout_marginBottom="10dp"
        android:textColor="@color/black"
        android:text="Diskusi *"
        android:id="@+id/label_1"/>

```

```

    <RadioGroup
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:id="@+id/rg1">

```

```

        <TextView

```

```

            android:layout_width="wrap_content"

```

```

            android:layout_height="wrap_content"

```

```

                android:layout_marginLeft="5dp"

```

```

            android:layout_marginBottom="10dp"

```

```

            android:layout_gravity="center_vertical"

```

```

                android:textColor="@color/black"

```

```

                android:text="Tidak\nSama sekali"/>

```

```

            <RadioButton

```

```

                android:text="1"

```

```

                android:button="@null"

```

```

            android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

```

```

            android:gravity="center_horizontal|bottom"

```



```

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg1rb5"
                                android:layout_weight="1"/>
<TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_gravity="center_vertical"

                                android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

                                android:textColor="@color/black"
                                android:text="Sangat Besar"/>
</RadioGroup>
</LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view2">

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

        <TextView

            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:layout_marginBottom="10dp"
            android:textColor="@color/black"
            android:text="Demonstrasi *"
            android:id="@+id/label_2"/>

        <RadioGroup
            android:layout_width="match_parent"

```

```

                                android:layout_height="wrap_content"
                                android:orientation="horizontal"
                                android:id="@+id/rg2">
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
                                android:layout_marginLeft="5dp"
    android:layout_marginBottom="10dp"
    android:layout_gravity="center_vertical"
                                android:textColor="@color/black"
                                android:text="Tidak\nSama sekali"/>
<RadioButton
    android:text="1"
    android:button="@null"
    android:drawableBottom="?android:attr/listChoiceIndicatorSingle"
    android:gravity="center_horizontal|bottom"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
                                android:id="@+id/rg2rb1"
                                android:layout_weight="1"/>
<RadioButton
    android:text="2"
    android:button="@null"
    android:drawableBottom="?android:attr/listChoiceIndicatorSingle"
    android:gravity="center_horizontal|bottom"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
                                android:id="@+id/rg2rb2"
                                android:layout_weight="1"/>
<RadioButton
    android:text="3"
    android:button="@null"
    android:drawableBottom="?android:attr/listChoiceIndicatorSingle"
    android:gravity="center_horizontal|bottom"

```

```

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg2rb3"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="4"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg2rb4"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="5"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg2rb5"
                                android:layout_weight="1"/>
                                <TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_gravity="center_vertical"
                                android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"
                                android:textColor="@color/black"
                                android:text="Sangat Besar"/>
                                </RadioGroup>
                                </LinearLayout>
                                </androidx.cardview.widget.CardView>

```

```
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view3">
```

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

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:layout_marginBottom="10dp"
    android:textColor="@color/black"
    android:text="Kerja Lapangan *"
    android:id="@+id/label_3"/>
```

```
<RadioGroup
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:id="@+id/rg3">
```

```
<TextView
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
        android:layout_marginLeft="5dp"
```

```
    android:layout_marginBottom="10dp"
```

```
    android:layout_gravity="center_vertical"
```

```
        android:textColor="@color/black"
```

```
        android:text="Tidak\nSama sekali"/>
```

```
        <RadioButton
```

```
            android:text="1"
```

```
            android:button="@null"
```

```
    android:drawableBottom="?android:attr/listChoiceIndicatorSingle"
```

```
    android:gravity="center_horizontal|bottom"
```

```
    android:layout_width="wrap_content"
```

```

android:layout_height="wrap_content"
                                android:id="@+id/rg3rb1"
                                android:layout_weight="1"/>
        <RadioButton
            android:text="2"
            android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg3rb2"
                                android:layout_weight="1"/>
        <RadioButton
            android:text="3"
            android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg3rb3"
                                android:layout_weight="1"/>
        <RadioButton
            android:text="4"
            android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg3rb4"
                                android:layout_weight="1"/>
        <RadioButton
            android:text="5"
            android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

```





```

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:layout_marginBottom="10dp"
    android:layout_gravity="center_vertical"
    android:textColor="@color/black"
    android:text="Tidak\nSama sekali"/>
    <RadioButton
        android:text="1"
        android:button="@null"
        android:drawableBottom="?android:attr/listChoiceIndicatorSingle"
        android:gravity="center_horizontal|bottom"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/rg4rb1"
        android:layout_weight="1"/>
        <RadioButton
            android:text="2"
            android:button="@null"
            android:drawableBottom="?android:attr/listChoiceIndicatorSingle"
            android:gravity="center_horizontal|bottom"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/rg4rb2"
            android:layout_weight="1"/>
            <RadioButton
                android:text="3"
                android:button="@null"
                android:drawableBottom="?android:attr/listChoiceIndicatorSingle"
                android:gravity="center_horizontal|bottom"
                android:layout_width="wrap_content"

```

```

android:layout_height="wrap_content"
                                android:id="@+id/rg4rb3"
                                android:layout_weight="1"/>
                                <RadioButton
                                    android:text="4"
                                    android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg4rb4"
                                android:layout_weight="1"/>
                                <RadioButton
                                    android:text="5"
                                    android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg4rb5"
                                android:layout_weight="1"/>
                                <TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_gravity="center_vertical"
                                android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"
                                android:textColor="@color/black"
                                android:text="Sangat Besar"/>
                                </RadioButton>
                                </LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"

```

```
android:padding="15dp"
card_view:cardElevation="2dp"
card_view:cardCornerRadius="4dp"
android:id="@+id/card_view5">
```

```
<LinearLayout
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:layout_marginBottom="10dp"
        android:textColor="@color/black"
        android:text="Praktikum *"
        android:id="@+id/label_5"/>
    <RadioGroup
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:id="@+id/rg5">
        <TextView
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:layout_marginLeft="5dp"
```

```
android:layout_marginBottom="10dp"
```

```
android:layout_gravity="center_vertical"
```

```
android:textColor="@color/black"
```

```
android:text="Tidak\nSama sekali"/>
```

```
<RadioButton
```

```
android:text="1"
```

```
android:button="@null"
```

```
android:drawableBottom="?android:attr/listChoiceIndicatorSingle"
```

```
android:gravity="center_horizontal|bottom"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:id="@+id/rg5rb1"
```

```
android:layout_weight="1"/>
```

```
<RadioButton
```

```

                                android:text="2"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg5rb2"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="3"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg5rb3"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="4"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg5rb4"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="5"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

```

```

android:layout_height="wrap_content"
                                android:id="@+id/rg5rb5"
                                android:layout_weight="1"/>
                                <TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_gravity="center_vertical"
                                android:layout_marginLeft="5dp"
android:layout_marginBottom="10dp"
                                android:textColor="@color/black"
                                android:text="Sangat Besar"/>
                                </RadioGroup>
                                </LinearLayout>
                                </androidx.cardview.widget.CardView>
                                <androidx.cardview.widget.CardView
                                android:layout_width="match_parent"
                                android:layout_margin="5dp"
                                android:layout_height="wrap_content"
                                android:padding="15dp"
                                card_view:cardElevation="2dp"
                                card_view:cardCornerRadius="4dp"
                                android:id="@+id/card_view6">
                                <LinearLayout
                                android:orientation="vertical"
                                android:layout_width="match_parent"
                                android:layout_height="wrap_content">
                                <TextView
                                android:layout_width="match_parent"
                                android:layout_height="wrap_content"
                                android:layout_marginLeft="5dp"
                                android:layout_marginBottom="10dp"
                                android:textColor="@color/black"
                                android:text="Perkuliahahan *"
                                android:id="@+id/label_6"/>
                                <RadioGroup
                                android:layout_width="match_parent"
                                android:layout_height="wrap_content"
                                android:orientation="horizontal"
                                android:id="@+id/rg6">
                                <TextView
android:layout_width="wrap_content"

```

```

android:layout_height="wrap_content"
                                android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

android:layout_gravity="center_vertical"
                                android:textColor="@color/black"
                                android:text="Tidak\nSama sekali"/>
                                <RadioButton
                                android:text="1"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg6rb1"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="2"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg6rb2"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="3"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg6rb3"
                                android:layout_weight="1"/>
                                <RadioButton

```

```

        android:text="4"
        android:button="@null"

    android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

    android:gravity="center_horizontal|bottom"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

        android:id="@+id/rg6rb4"
        android:layout_weight="1"/>
    <RadioButton
        android:text="5"
        android:button="@null"

    android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

    android:gravity="center_horizontal|bottom"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

        android:id="@+id/rg6rb5"
        android:layout_weight="1"/>
    <TextView

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:layout_gravity="center_vertical"

        android:layout_marginLeft="5dp"

    android:layout_marginBottom="10dp"

        android:textColor="@color/black"
        android:text="Sangat Besar"/>
    </RadioGroup>
</LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view7">

```

```

        <LinearLayout
            android:orientation="vertical"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="5dp"
                android:layout_marginBottom="10dp"
                android:textColor="@color/black"
                android:text="Partisipasi dalam proyek
riset *"
                android:id="@+id/label_7"/>
            <RadioGroup
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:orientation="horizontal"
                android:id="@+id/rg7">
                <TextView
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:layout_marginLeft="5dp"
                    android:layout_marginBottom="10dp"
                    android:layout_gravity="center_vertical"
                    android:textColor="@color/black"
                    android:text="Tidak\nSama sekali"/>
                <RadioButton
                    android:text="1"
                    android:button="@null"
                    android:drawableBottom="?android:attr/listChoiceIndicatorSingle"
                    android:gravity="center_horizontal|bottom"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:id="@+id/rg7rb1"
                    android:layout_weight="1"/>
                <RadioButton
                    android:text="2"
                    android:button="@null"

```



```
android:drawableBottom="?android:attr/listChoiceIndicatorSingle"  
android:gravity="center_horizontal|bottom"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
  
                android:id="@+id/rg7rb2"  
                android:layout_weight="1"/>  
        <RadioButton  
            android:text="3"  
            android:button="@null"  
  
            android:drawableBottom="?android:attr/listChoiceIndicatorSingle"  
            android:gravity="center_horizontal|bottom"  
            android:layout_width="wrap_content"  
            android:layout_height="wrap_content"  
  
                    android:id="@+id/rg7rb3"  
                    android:layout_weight="1"/>  
    <RadioButton  
        android:text="4"  
        android:button="@null"  
  
        android:drawableBottom="?android:attr/listChoiceIndicatorSingle"  
        android:gravity="center_horizontal|bottom"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
  
                android:id="@+id/rg7rb4"  
                android:layout_weight="1"/>  
    <RadioButton  
        android:text="5"  
        android:button="@null"  
  
        android:drawableBottom="?android:attr/listChoiceIndicatorSingle"  
        android:gravity="center_horizontal|bottom"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
  
                android:id="@+id/rg7rb5"  
                android:layout_weight="1"/>
```

```

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center_vertical"
            android:layout_marginLeft="5dp"
            android:layout_marginBottom="10dp"
            android:textColor="@color/black"
            android:text="Sangat Besar"/>
        </RadioGroup>
    </LinearLayout>
</androidx.cardview.widget.CardView>
<Button
    android:id="@+id/btnSimpan"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:layout_marginLeft="20dp"
    android:layout_marginRight="20dp"
    android:layout_marginBottom="40dp"
    android:background="@drawable/shapelogin"
    android:onClick="True"
    android:text="Simpan"
    android:textAllCaps="false"
    android:textColor="#fff"
    android:textSize="18sp"/>
</LinearLayout>
</ScrollView>
<ProgressBar
    android:id="@+id/pbLoading"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_centerInParent="true"
    android:layout_gravity="center"
    style="@style/AppTheme"/>
</RelativeLayout>
</RelativeLayout>
</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

### 12.30 activity\_tracerstudy3.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:id="@+id/root_layout"

```

```

        android:layout_width="match_parent"
        android:layout_height="match_parent">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bggradient"
    android:orientation="vertical"
    android:scrollbarAlwaysDrawVerticalTrack="true">

    <RelativeLayout
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="15dp"
        android:layout_marginRight="15dp"
        android:layout_marginTop="15dp"
        android:background="#fff"
        android:elevation="4dp"
        android:orientation="vertical"
        android:padding="5dp"
        android:layout_marginBottom="60dp">

        <RadioButton
            android:id="@+id/radio0"
            android:layout_width="0dp"
            android:layout_height="match_parent"
            android:layout_weight="1"
            android:button="@null"

            android:drawableBottom="?android:attr/listChoiceIndicatorSingle"
            android:gravity="center_horizontal|bottom"
            android:text="5"/>

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:textSize="22dp"
            android:layout_marginBottom="10dp"
            android:textColor="@color/black"
            android:gravity="center_horizontal"
            android:text="Kepuasan Pengguna Lulusan"
            android:id="@+id/label_tracer"/>

        <ScrollView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:id="@+id/scrollView1"
            android:layout_below="@+id/label_tracer">

```

```

<LinearLayout
    android:id="@+id/linearlayout1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:paddingTop="10dp">

    <androidx.cardview.widget.CardView
        android:layout_width="match_parent"
        android:layout_margin="5dp"
        android:layout_height="wrap_content"
        android:padding="15dp"
        card_view:cardElevation="2dp"
        card_view:cardCornerRadius="4dp"
        android:id="@+id/card_view1">

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

```

```

    android:layout_width="match_parent"

```

```

    android:layout_height="wrap_content"

```

```

        android:layout_marginLeft="5dp"

```

```

    android:layout_marginBottom="10dp"

```

```

        android:textColor="@color/black"

```

```

        android:text="Etika *"

```

```

        android:id="@+id/label_1"/>

```

```

    <RadioGroup

```

```

    android:layout_width="match_parent"

```

```

    android:layout_height="wrap_content"

```

```

        android:orientation="horizontal"

```

```

        android:id="@+id/rg1">

```

```

    <TextView

```

```

    android:layout_width="wrap_content"

```

```

    android:layout_height="wrap_content"

```

```

    android:layout_marginLeft="5dp"

```

```

    android:layout_marginBottom="10dp"

```



[illegible]

```

android:layout_marginBottom="10dp"
                                android:textColor="@color/black"
                                android:text="Keahlian pada bidang
ilmu (kompetensi utama) *"
                                android:id="@+id/label_2"/>
<RadioGroup
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
                                android:orientation="horizontal"
                                android:id="@+id/rg2">
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:layout_marginBottom="10dp"
    android:layout_gravity="center_vertical"
    android:textColor="@color/black"
                                android:text="Kurang"/>
<RadioButton
    android:text="1"
    android:button="@null"
    android:drawableBottom="?android:attr/listChoiceIndicatorSingle"
    android:gravity="center_horizontal|bottom"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
                                android:id="@+id/rg2rb1"
                                android:layout_weight="1"/>
<RadioButton
    android:text="2"
    android:button="@null"
    android:drawableBottom="?android:attr/listChoiceIndicatorSingle"
    android:gravity="center_horizontal|bottom"
    android:layout_width="wrap_content"

```

```

android:layout_height="wrap_content"
                                android:id="@+id/rg2rb2"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="3"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg2rb3"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="4"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg2rb4"
                                android:layout_weight="1"/>
                                <TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_gravity="center_vertical"

android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

android:textColor="@color/black"
                                android:text="Sangat Baik"/>
                                </RadioGroup>
                                </LinearLayout>
                                </androidx.cardview.widget.CardView>

```



```

        <androidx.cardview.widget.CardView
            android:layout_width="match_parent"
            android:layout_margin="5dp"
            android:layout_height="wrap_content"
            android:padding="15dp"
            card_view:cardElevation="2dp"
            card_view:cardCornerRadius="4dp"
            android:id="@+id/card_view3">

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

android:layout_width="match_parent"

android:layout_height="wrap_content"

                                android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

                                android:textColor="@color/black"
                                android:text="Kemampuan

berbahasa asing *"

                                android:id="@+id/label_3"/>
                <RadioGroup

android:layout_width="match_parent"

android:layout_height="wrap_content"

                                android:orientation="horizontal"
                                android:id="@+id/rg3">
                <TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

android:layout_gravity="center_vertical"

android:textColor="@color/black"

                                android:text="Kurang"/>
                <RadioButton
                    android:text="1"

```

```

                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg3rb1"
                                android:layout_weight="1"/>
<RadioButton
                                android:text="2"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg3rb2"
                                android:layout_weight="1"/>
<RadioButton
                                android:text="3"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg3rb3"
                                android:layout_weight="1"/>
<RadioButton
                                android:text="4"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

```

```

        android:id="@+id/rg3rb4"
        android:layout_weight="1"/>

        <TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_gravity="center_vertical"

android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

android:textColor="@color/black"

        android:text="Sangat Baik"/>
    </RadioGroup>
</LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view4">

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

android:layout_width="match_parent"

android:layout_height="wrap_content"

        android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

        android:textColor="@color/black"
        android:text="Penggunaan Teknologi

Informasi *"

        android:id="@+id/label_4"/>
    </RadioGroup

android:layout_width="match_parent"

```



```

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg4rb3"
                                android:layout_weight="1"/>
<RadioButton
                                android:text="4"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg4rb4"
                                android:layout_weight="1"/>
<TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_gravity="center_vertical"

android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

android:textColor="@color/black"

                                android:text="Sangat Baik"/>
</RadioGroup>
</LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view5">

```

```

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

android:layout_width="match_parent"

android:layout_height="wrap_content"

                                android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

                                android:textColor="@color/black"
                                android:text="Kemampuan
berkomunikasi *"

                                android:id="@+id/label_5"/>
            <RadioGroup

android:layout_width="match_parent"

android:layout_height="wrap_content"

                                android:orientation="horizontal"
                                android:id="@+id/rg5">
            <TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

android:layout_gravity="center_vertical"

android:textColor="@color/black"

                                android:text="Kurang"/>
            <RadioButton
                android:text="1"
                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

```

```

        android:id="@+id/rg5rb1"
        android:layout_weight="1"/>
    <RadioButton
        android:text="2"
        android:button="@null"

    android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

    android:gravity="center_horizontal|bottom"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

        android:id="@+id/rg5rb2"
        android:layout_weight="1"/>
    <RadioButton
        android:text="3"
        android:button="@null"

    android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

    android:gravity="center_horizontal|bottom"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

        android:id="@+id/rg5rb3"
        android:layout_weight="1"/>
    <RadioButton
        android:text="4"
        android:button="@null"

    android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

    android:gravity="center_horizontal|bottom"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

        android:id="@+id/rg5rb4"
        android:layout_weight="1"/>
    <TextView

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:layout_gravity="center_vertical"

```

```

android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

android:textColor="@color/black"
                                android:text="Sangat Baik"/>
                                </RadioGroup>
                                </LinearLayout>
                                </androidx.cardview.widget.CardView>
                                <androidx.cardview.widget.CardView
                                    android:layout_width="match_parent"
                                    android:layout_margin="5dp"
                                    android:layout_height="wrap_content"
                                    android:padding="15dp"
                                    card_view:cardElevation="2dp"
                                    card_view:cardCornerRadius="4dp"
                                    android:id="@+id/card_view6">

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

android:layout_width="match_parent"

android:layout_height="wrap_content"
                                android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"
                                android:textColor="@color/black"
                                android:text="Kerjasama *"
                                android:id="@+id/label_6"/>
                                <RadioGroup

android:layout_width="match_parent"

android:layout_height="wrap_content"
                                android:orientation="horizontal"
                                android:id="@+id/rg6">
                                <TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginLeft="5dp"

```



```

android:layout_marginBottom="10dp"

android:layout_gravity="center_vertical"

android:textColor="@color/black"

                                android:text="Kurang"/>
                                <RadioButton
                                android:text="1"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg6rb1"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="2"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg6rb2"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="3"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg6rb3"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="4"

```

```

        android:button="@null"

        android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

        android:gravity="center_horizontal|bottom"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:id="@+id/rg6rb4"
        android:layout_weight="1"/>
    <TextView

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_gravity="center_vertical"

        android:layout_marginLeft="5dp"

        android:layout_marginBottom="10dp"

        android:textColor="@color/black"

        android:text="Sangat Baik"/>
    </RadioGroup>
</LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view7">

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

        <TextView

            android:layout_width="match_parent"

            android:layout_height="wrap_content"

            android:layout_marginLeft="5dp"

```

```

android:layout_marginBottom="10dp"
                                android:textColor="@color/black"
                                android:text="Pengembangan diri *"
                                android:id="@+id/label_7"/>
                                <RadioGroup

android:layout_width="match_parent"

android:layout_height="wrap_content"
                                android:orientation="horizontal"
                                android:id="@+id/rg7">
                                <TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

android:layout_gravity="center_vertical"

android:textColor="@color/black"
                                android:text="Kurang"/>
                                <RadioButton
                                android:text="1"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg7rb1"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="2"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

```

```
android:layout_height="wrap_content"
                                android:id="@+id/rg7rb2"
                                android:layout_weight="1"/>
<RadioButton
    android:text="3"
    android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg7rb3"
                                android:layout_weight="1"/>
<RadioButton
    android:text="4"
    android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rg7rb4"
                                android:layout_weight="1"/>
<TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_gravity="center_vertical"

android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

android:textColor="@color/black"
                                android:text="Sangat Baik"/>
</RadioGroup>
</LinearLayout>
</androidx.cardview.widget.CardView>
<Button
    android:id="@+id/btnSimpan"
```

```

        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"
        android:layout_marginBottom="40dp"
        android:background="@drawable/shapellogin"
        android:onClick="True"
        android:text="Simpan"
        android:textAllCaps="false"
        android:textColor="#fff"
        android:textSize="18sp"/>
    </LinearLayout>
</ScrollView>
<ProgressBar
    android:id="@+id/pbLoading"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_centerInParent="true"
    android:layout_gravity="center"
    style="@style/AppTheme"/>
</RelativeLayout>
</RelativeLayout>
</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

### 12.31 activity\_tracerstudy4.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bggradient"
    android:orientation="vertical"
    android:scrollbarAlwaysDrawVerticalTrack="true"
    android:id="@+id/root_layout">

    <RelativeLayout
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_margin="15dp"
        android:background="#fff"
        android:elevation="4dp"
        android:orientation="vertical"
        android:padding="5dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"

```

```
        android:layout_margin="10dp"
        android:textSize="22dp"
        android:textColor="@color/black"
        android:gravity="center_horizontal"
        android:text="Pekerjaan"
        android:id="@+id/label_tracer1"/>
```

```
<TextView
```

```
    android:text="* Wajib diisi"
    android:textColor="@color/black"
    android:layout_marginLeft="10dp"
    android:layout_marginRight="10dp"
    android:layout_marginBottom="10dp"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/label_tracer2"
    android:layout_below="@+id/label_tracer1"/>
```

```
<ScrollView
```

```
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/scrollView1"
    android:layout_below="@id/label_tracer2">
```

```
<LinearLayout
```

```
    android:id="@+id/linearlayout1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:paddingTop="10dp">
```

```
<androidx.cardview.widget.CardView
```

```
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view1">
```

```
<LinearLayout
```

```
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="10dp">
```

```
<TextView
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:layout_marginBottom="10dp"
```

```

                                android:textColor="@color/black"
                                android:text="F3: Kapan anda mulai
mencari pekerjaan? Mohon pekerjaan sambilan tidak dimasukkan *"
                                android:id="@+id/label_1"/>
                                <RadioGroup
                                android:layout_width="match_parent"
                                android:layout_height="match_parent"
                                android:id="@+id/rgf3">
                                <RadioButton
                                android:text="Sebelum lulus S/D. 2
bulan setelah Lulus"
                                android:layout_width="wrap_content"
                                android:layout_height="wrap_content"
                                android:id="@+id/rgf3rb1"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="3 - 8 bulan setelah
lulus"
                                android:layout_width="wrap_content"
                                android:layout_height="wrap_content"
                                android:id="@+id/rgf3rb2"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Diatas 8 bulan setelah
lulus"
                                android:layout_width="wrap_content"
                                android:layout_height="wrap_content"
                                android:id="@+id/rgf3rb3"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Saya tidak mencari
kerja (langsung ke F8)"
                                android:layout_width="wrap_content"
                                android:layout_height="wrap_content"
                                android:id="@+id/rgf3rb4"
                                android:layout_weight="1"/>
                                </RadioGroup>
                                </LinearLayout>
</androidx.cardview.widget.CardView>

```

```

<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view2">

```

```

<LinearLayout
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="10dp">

```

```

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:layout_marginBottom="10dp"
    android:textColor="@color/black"
    android:text="F4: Bagaimana anda
mencari pekerjaan tersebut? Jawaban bisa lebih dari satu *"
    android:id="@+id/label_2"/>

```

```

<CheckBox
    android:text="Melalui iklan di

```

koran/majalah, brosur"

```

    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/f4_1"/>

```

```

<CheckBox
    android:text="Melamar ke perusahaan

```

tanpa mengetahui lowongan yang ada"

```

    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/f4_2"/>

```

```

<CheckBox
    android:text="Pergi ke bursa/pameran

```

kerja"

```

    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/f4_3"/>

```

```

<CheckBox
    android:text="Mencari lewat

```

internet/iklan online/milis"

```

    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/f4_4"/>

```



|   |   |
|---|---|
| perusahaan"   | <CheckBox<br>android:text="Dihubungi oleh<br><br>android:layout_width="match_parent"<br>android:layout_height="wrap_content"<br>android:id="@+id/f4_5"/>          |
| Kemenakertrans"                                       | <CheckBox<br>android:text="Menghubungi<br><br>android:layout_width="match_parent"<br>android:layout_height="wrap_content"<br>android:id="@+id/f4_6"/>             |
| kerja komersial/swasta"                               | <CheckBox<br>android:text="Menghubungi agen tenaga<br><br>android:layout_width="match_parent"<br>android:layout_height="wrap_content"<br>android:id="@+id/f4_7"/> |
| pusat/kantor pengembangan karir fakultas/universitas" | <CheckBox<br>android:text="Memeroleh informasi dari<br>android:layout_width="match_parent"<br>android:layout_height="wrap_content"<br>android:id="@+id/f4_8"/>    |
| kemahasiswaan/hubungan alumni"                        | <CheckBox<br>android:text="Menghubungi kantor<br><br>android:layout_width="match_parent"<br>android:layout_height="wrap_content"<br>android:id="@+id/f4_9"/>      |
| (network) sejak masih kuliah"                         | <CheckBox<br>android:text="Membangun jejaring<br><br>android:layout_width="match_parent"<br>android:layout_height="wrap_content"<br>android:id="@+id/f4_10"/>     |
| dosen, orang tua, saudara, teman, dll.)"              | <CheckBox<br>android:text="Melalui relasi (misalnya<br>android:layout_width="match_parent"<br>android:layout_height="wrap_content"<br>android:id="@+id/f4_11"/>   |
|   | <CheckBox<br>android:text="Membangun bisnis sendiri"<br>android:layout_width="match_parent"<br>android:layout_height="wrap_content"<br>android:id="@+id/f4_12"/>  |
|   | <CheckBox   |

atau magang"

android:text="Melalui penempatan kerja

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/f4\_13"/>

<CheckBox

sama dengan tempat kerja semasa kuliah"

android:text="Bekerja di tempat yang

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/f4\_14"/>

<CheckBox

android:text="Other"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/f4\_15"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="text"

android:ems="10"

android:id="@+id/f4\_15\_other"/>

</LinearLayout>

</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView

android:layout\_width="match\_parent"

android:layout\_margin="5dp"

android:layout\_height="wrap\_content"

android:padding="15dp"

card\_view:cardElevation="2dp"

card\_view:cardCornerRadius="4dp"

android:id="@+id/card\_view3">

<LinearLayout

android:orientation="vertical"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="10dp">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="5dp"

android:layout\_marginBottom="10dp"

android:textColor="@color/black"

android:text="F5: Berapa bulan waktu

yang dihabiskan (sebelum dan sesudah kelulusan) untuk memperoleh pekerjaan pertama?"

```

        android:id="@+id/label_3"/>
    <RadioGroup
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/rgf5">
        <RadioButton
            android:text="Kira-kira 3 bulan
sebelum lulus ujian"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/rgf5rb1"
            android:layout_weight="1"/>
        <RadioButton
            android:text="Kira-kira 3 bulan
setelah lulus ujian"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/rgf5rb2"
            android:layout_weight="1"/>
    </RadioGroup>
</LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view4">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:layout_marginBottom="10dp"
            android:textColor="@color/black"
            android:text="F6: Berapa
perusahaan/instansi/institusi yang sudah anda lamar (lewat surat atau e-mail)

```

sebelum anda memperoleh pekerjaan pertama?"

```
        android:id="@+id/label_4"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="number"
        android:ems="10"
        android:id="@+id/f6"/>
    </LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view5">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:layout_marginBottom="10dp"
            android:textColor="@color/black"
            android:text="F7: Berapa banyak
perusahaan/instansi/institusi yang merespons lamaran anda? *"
            android:id="@+id/label_5"/>
        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:inputType="number"
            android:ems="10"
            android:id="@+id/f7"/>

    </LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
```

```

card_view:cardCornerRadius="4dp"
android:id="@+id/card_view6">

<LinearLayout
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="10dp">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:layout_marginBottom="10dp"
        android:textColor="@color/black"
        android:text="F7a: Berapa banyak
perusahaan/instansi/institusi yang mengundang anda untuk wawancara?"
        android:id="@+id/label_6"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="number"
        android:ems="10"
        android:id="@+id/f7a"/>
    </LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view7">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:layout_marginBottom="10dp"
            android:textColor="@color/black"
            android:text="F8: Apakah anda bekerja
saat ini (termasuk kerja sambilan dan wirausaha)? *"

```

```

        android:id="@+id/label_7"/>
    <RadioGroup
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/rgf8">
        <RadioButton
            android:text="Ya (Jika ya, lanjutkan
ke F11)"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/rgf8rb1"
            android:layout_weight="1"/>
        <RadioButton
            android:text="Tidak"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/rgf8rb2"
            android:layout_weight="1"/>
    </RadioGroup>
</LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view8">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:layout_marginBottom="10dp"
            android:textColor="@color/black"
            android:text="F9: Bagaimana anda
menggambarkan situasi anda saat ini? Jawaban bisa lebih dari satu *"

```

```

        android:id="@+id/label_8"/>
        <CheckBox
            android:text="Saya masih
belajar/melanjutkan kuliah profesi atau pascasarjana"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/f9_1"/>
        <CheckBox
            android:text="Saya Menikah"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/f9_2"/>
        <CheckBox
            android:text="Saya sibuk dengan keluarga
dan anak-anak"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/f9_3"/>
        <CheckBox
            android:text="Saya sekarang sedang
mencari pekerjaan"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/f9_4"/>
        <CheckBox
            android:text="Other"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/f9_5"/>
        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:inputType="text"
            android:ems="10"
            android:id="@+id/f9_5_other"/>
    </LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view9">

    <LinearLayout

```

```

        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp">
<TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:layout_marginBottom="10dp"
        android:textColor="@color/black"
        android:text="F10: Apakah anda aktif
mencari pekerjaan dalam 4 minggu terakhir? Pilihlah Satu Jawaban. KEMUDIAN
LANJUT KE F17"
        android:id="@+id/label_9"/>
<RadioGroup
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/rgf10">
    <RadioButton
        android:text="Tidak"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

        android:id="@+id/rgf10rb1"
        android:layout_weight="1"/>
    <RadioButton
        android:text="Tidak, tapi saya
sedang menunggu hasil lamaran kerja"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

        android:id="@+id/rgf10rb2"
        android:layout_weight="1"/>
    <RadioButton
        android:text="Ya, saya akan mulai
bekerja dalam 2 minggu ke depan"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

        android:id="@+id/rgf10rb3"
        android:layout_weight="1"/>
    <RadioButton
        android:text="Ya, tapi saya belum
pasti akan bekerja dalam 2 minggu ke depan"

```



```
android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
        android:id="@+id/r_gf_l0rb4"  
        android:layout_weight="1"/>  
    <RadioButton  
        android:text="Other"  
  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
        android:id="@+id/r_gf_l0rb5"  
        android:layout_weight="1"/>  
    <EditText  
  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
        android:inputType="text"  
        android:ems="10"  
        android:id="@+id/f_l0_5_other"/>  
    </RadioGroup>  
</LinearLayout>  
</androidx.cardview.widget.CardView>  
  
<androidx.cardview.widget.CardView  
    android:layout_width="match_parent"  
    android:layout_margin="5dp"  
    android:layout_height="wrap_content"  
    android:padding="15dp"  
    card_view:cardElevation="2dp"  
    card_view:cardCornerRadius="4dp"  
    android:id="@+id/card_view10">  
    <LinearLayout  
        android:orientation="vertical"  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content"  
        android:layout_marginBottom="10dp">  
        <TextView  
            android:layout_width="match_parent"  
            android:layout_height="wrap_content"  
            android:layout_marginLeft="5dp"  
            android:layout_marginBottom="10dp"  
            android:textColor="@color/black"  
            android:text="F11: Apa jenis perusahaan/institusi tempat anda bekerja sekarang?"  
            android:id="@+id/label_12"/>
```

|  |   |
|--|---|
| (termasuk BUMN)"                       | <pre> &lt;CheckBox     android:text="Instansi pemerintah      android:layout_width="match_parent"     android:layout_height="wrap_content"     android:id="@+id/f11_1"/&gt; </pre>  |
| non-profit/Lembaga Swadaya Masyarakat" | <pre> &lt;CheckBox     android:text="Organisasi      android:layout_width="match_parent"     android:layout_height="wrap_content"     android:id="@+id/f11_2"/&gt; </pre>   |
| sendiri"                               | <pre> &lt;CheckBox     android:text="Perusahaan swasta"     android:layout_width="match_parent"     android:layout_height="wrap_content"     android:id="@+id/f11_3"/&gt;  &lt;CheckBox     android:text="Wiraswasta/perusahaan      android:layout_width="match_parent"     android:layout_height="wrap_content"     android:id="@+id/f11_4"/&gt;  &lt;CheckBox     android:text="Other"     android:layout_width="match_parent"     android:layout_height="wrap_content"     android:id="@+id/f11_5"/&gt;  &lt;EditText     android:layout_width="match_parent"     android:layout_height="wrap_content"     android:inputType="text"     android:ems="10"     android:id="@+id/f11_5_other"/&gt;  &lt;TextView     android:layout_width="match_parent"     android:layout_height="wrap_content"     android:layout_marginLeft="5dp"     android:layout_marginBottom="10dp"     android:textColor="@color/black"     android:text="Instansi / Perusahaan (Bagi      android:id="@+id/label_13"/&gt;  &lt;EditText     android:layout_width="match_parent"     android:layout_height="wrap_content" </pre> |
| yang sudah bekerja)"                   |   |

Perusahaan"

```
        android:inputType="text"
        android:ems="10"
        android:id="@+id/f11_6"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:layout_marginBottom="10dp"
        android:textColor="@color/black"
        android:text="Alamat Instansi /

        android:id="@+id/label_14"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="text"
        android:ems="10"
        android:id="@+id/f11_7"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:layout_marginBottom="10dp"
        android:textColor="@color/black"
        android:text="Nomor Telepon Kantor"
        android:id="@+id/label_15"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="text"
        android:ems="10"
        android:id="@+id/f11_8"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:layout_marginBottom="10dp"
        android:textColor="@color/black"
        android:text="Jabatan"
        android:id="@+id/label_16"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="text"
        android:ems="10"
        android:id="@+id/f11_9"/>
</LinearLayout>
</androidx.cardview.widget.CardView>
```

```

<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view11">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:layout_marginBottom="10dp"
            android:textColor="@color/black"
            android:text="F13: Kira-kira berapa
pendapatan anda setiap bulannya?"
            android:id="@+id/label_17"/>
        <RadioGroup
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:id="@+id/rgf13">
            <RadioButton

android:text="@string/rp_1_000_000"

android:layout_width="match_parent"

android:layout_height="wrap_content"

            android:id="@+id/rgf13rb1"
            android:layout_weight="1"/>
            <RadioButton

android:text="@string/rp_1_000_000_rp_3_000_000"

android:layout_width="match_parent"

android:layout_height="wrap_content"

            android:id="@+id/rgf13rb2"
            android:layout_weight="1"/>
            <RadioButton

```

```

android:text="@string/rp_3_000_000_rp_5_000_000"

android:layout_width="match_parent"

android:layout_height="wrap_content"
                                android:id="@+id/rgf13rb3"
                                android:layout_weight="1"/>
                                <RadioButton

android:text="@string/rp_5_000_000_rp_7_500_000"

android:layout_width="match_parent"

android:layout_height="wrap_content"
                                android:id="@+id/rgf13rb4"
                                android:layout_weight="1"/>
                                <RadioButton

android:text="@string/rp_7_500_000_rp_10_000_000"

android:layout_width="match_parent"

android:layout_height="wrap_content"
                                android:id="@+id/rgf13rb5"
                                android:layout_weight="1"/>
                                <RadioButton

android:text="@string/rp_10_000_000_rp_12_500_000"

android:layout_width="match_parent"

android:layout_height="wrap_content"
                                android:id="@+id/rgf13rb6"
                                android:layout_weight="1"/>
                                <RadioButton

android:text="@string/rp_12_500_000_rp_15_000_000"

android:layout_width="match_parent"

android:layout_height="wrap_content"
                                android:id="@+id/rgf13rb7"
                                android:layout_weight="1"/>
                                <RadioButton

android:text="@string/rp_15_000_000"

android:layout_width="match_parent"

```

```

android:layout_height="wrap_content"
                                android:id="@+id/rgf13rb8"
                                android:layout_weight="1"/>
        </RadioGroup>
    </LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view12">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:layout_marginBottom="10dp"
            android:textColor="@color/black"
            android:text="F14: Seberapa erat
hubungan antara bidang studi dengan pekerjaan anda?"
            android:id="@+id/label_18"/>
        <RadioGroup
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal"
            android:id="@+id/rgf14">
            <TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:layout_marginLeft="5dp"

android:layout_marginBottom="10dp"

android:layout_gravity="center_vertical"
                                android:textColor="@color/black"
                                android:text="Tidak\nSama sekali"/>
        <RadioButton

```

```

                                android:text="1"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg1rb1"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="2"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg1rb2"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="3"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rg1rb3"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="4"
                                android:button="@null"

android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

android:gravity="center_horizontal|bottom"

android:layout_width="wrap_content"

```

```

        android:layout_height="wrap_content"
                                android:id="@+id/rg1rb4"
                                android:layout_weight="1"/>
        <RadioButton
            android:text="5"
            android:button="@null"

        android:drawableBottom="?android:attr/listChoiceIndicatorSingle"

        android:gravity="center_horizontal|bottom"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"
                                android:id="@+id/rg1rb5"
                                android:layout_weight="1"/>
        <TextView

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_gravity="center_vertical"
                                android:layout_marginLeft="5dp"

        android:layout_marginBottom="10dp"
                                android:textColor="@color/black"
                                android:text="Sangat Erat"/>
        </RadioGroup>
    </LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view13">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"

```



```

        android:layout_marginLeft="5dp"
        android:layout_marginBottom="10dp"
        android:textColor="@color/black"
        android:text="F15: Tingkat pendidikan
apa yang paling tepat/sesuai untuk pekerjaan anda saat ini?"
        android:id="@+id/label_19"/>
    <Spinner
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/f15"
        android:entries="@array/f15_array"/>

</LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view14">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:layout_marginBottom="10dp"
            android:textColor="@color/black"
            android:text="F16: Jika menurut anda
pekerjaan anda saat ini tidak sesuai dengan pendidikan anda, mengapa anda
mengambilnya? Jawaban bisa lebih dari satu"
            android:id="@+id/label_20"/>
        <CheckBox
            android:text="Pertanyaan tidak sesuai,
pekerjaan saya sekarang sudah sesuai dengan pendidikan saya"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/f16_1"
            android:layout_weight="1"/>
        <CheckBox
            android:text="Di pekerjaan ini saya
memperoleh prospek karir yang baik"

```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/fl16_2"
        android:layout_weight="1"/>
<CheckBox
    android:text="Saya lebih suka bekerja di
area pekerjaan yang tidak ada hubungannya dengan pendidikan saya"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/fl16_3"
    android:layout_weight="1"/>
<CheckBox
    android:text="Saya dipromosikan ke
posisi yang kurang berhubungan dengan pendidikan saya dibanding posisi
sebelumnya"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/fl16_4"
    android:layout_weight="1"/>
<CheckBox
    android:text="Saya dapat memperoleh
pendapatan yang lebih tinggi di pekerjaan ini"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/fl16_5"
    android:layout_weight="1"/>
<CheckBox
    android:text="Pekerjaan saya saat ini
lebih aman/terjamin/secure"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/fl16_6"
    android:layout_weight="1"/>
<CheckBox
    android:text="Pekerjaan saya saat ini
lebih menarik"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/fl16_7"
    android:layout_weight="1"/>
<CheckBox
    android:text="Pekerjaan saya saat ini
lebih memungkinkan saya mengambil pekerjaan tambahan/jadwal yang fleksibel,
dll."
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/fl16_8"
    android:layout_weight="1"/>

```

```

<CheckBox
    android:text="Pekerjaan saya saat ini
lokasinya lebih dekat dari rumah saya"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/fl6_9"
    android:layout_weight="1"/>
<CheckBox
    android:text="Pekerjaan saya saat ini
dapat lebih menjadmin kebutuhan keluarga saya"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/fl6_10"
    android:layout_weight="1"/>
<CheckBox
    android:text="Pada awal meniti karir ini,
saya harus menerima pekerjaan yang tidak berhubungan dengan pendidikan saya"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/fl6_11"
    android:layout_weight="1"/>
<CheckBox
    android:text="Other"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/fl6_12"
    android:layout_weight="1"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:inputType="text"
    android:ems="10"
    android:id="@+id/fl6_12_other"/>
</LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view15">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"

```

```

        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:layout_marginBottom="10dp"
            android:textColor="@color/black"
            android:text="F17-1: Pada saat lulus, pada
tingkat mana kompetensi di bawah ini anda kuasai? (A)"
            android:id="@+id/label_10"/>
        <RadioGroup
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:id="@+id/rgf17_1">
            <RadioButton
                android:text="Pengetahuan di bidang
atau disiplin ilmu anda"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:id="@+id/rgf17_1rb1"
                android:layout_weight="1"/>
            <RadioButton
                android:text="Pengetahuan di luar
bidang atau disiplin ilmu anda"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:id="@+id/rgf17_1rb2"
                android:layout_weight="1"/>
            <RadioButton
                android:text="Pengetahuan umum"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:id="@+id/rgf17_1rb3"
                android:layout_weight="1"/>
            <RadioButton
                android:text="Bahasa Inggris"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:id="@+id/rgf17_1rb4"

```

```

                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Keterampilan internet"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rgf17_1rb5"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Berpikir kritis"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rgf17_1rb6"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Keterampilan riset"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rgf17_1rb7"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Kemampuan belajar"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rgf17_1rb8"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Kemampuan
berkomunikasi"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rgf17_1rb9"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Bekerja di bawah
tekanan"

android:layout_width="wrap_content"

```

```

android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb10"
                                android:layout_weight="1"/>
                                <RadioButton
                                    android:text="Manajemen waktu"
                                >
                                </RadioButton>
                                android:layout_width="wrap_content"
                                android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb11"
                                android:layout_weight="1"/>
                                <RadioButton
                                    android:text="Bekerja secara
mandiri"
                                >
                                </RadioButton>
                                android:layout_width="wrap_content"
                                android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb12"
                                android:layout_weight="1"/>
                                <RadioButton
                                    android:text="Bekerja dalam
tim/bekerjasama dengan orang lain"
                                >
                                </RadioButton>
                                android:layout_width="wrap_content"
                                android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb13"
                                android:layout_weight="1"/>
                                <RadioButton
                                    android:text="Kemampuan dalam
memecahkan masalah"
                                >
                                </RadioButton>
                                android:layout_width="wrap_content"
                                android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb14"
                                android:layout_weight="1"/>
                                <RadioButton
                                    android:text="Negosiasi"
                                >
                                </RadioButton>
                                android:layout_width="wrap_content"
                                android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb15"
                                android:layout_weight="1"/>
                                <RadioButton
                                    android:text="Kemampuan analisis"
                                >
                                </RadioButton>

```

```

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb16"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Toleransi"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb17"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Kemampuan adaptasi"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb18"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Loyalitas"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb19"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Integritas"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb20"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Bekerja dengan orang
yang berbeda budaya maupun latar belakang"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb21"
                                android:layout_weight="1"/>
                                <RadioButton

```

|  |                               |
|--|-------------------------------|
|  | android:text="Kepemimpinan"   |
| android:layout_width="wrap_content"    |                               |
| android:layout_height="wrap_content"   |                               |
|  | android:id="@+id/rgf17_1rb22" |
|  | android:layout_weight="1"/>   |
|  | <RadioButton                  |
|  | android:text="Kemampuan dalam |
| memegang tanggung jawab"               |                               |
| android:layout_width="wrap_content"    |                               |
| android:layout_height="wrap_content"   |                               |
|  | android:id="@+id/rgf17_1rb23" |
|  | android:layout_weight="1"/>   |
|  | <RadioButton                  |
|  | android:text="Inisiatif"      |
| android:layout_width="wrap_content"    |                               |
| android:layout_height="wrap_content"   |                               |
|  | android:id="@+id/rgf17_1rb24" |
|  | android:layout_weight="1"/>   |
|  | <RadioButton                  |
|  | android:text="Manajemen       |
| proyek/program"                        |                               |
| android:layout_width="wrap_content"    |                               |
| android:layout_height="wrap_content"   |                               |
|  | android:id="@+id/rgf17_1rb25" |
|  | android:layout_weight="1"/>   |
|  | <RadioButton                  |
|  | android:text="Kemampuan untuk |
| memrepresentasikan ide/produk/laporan" |                               |
| android:layout_width="wrap_content"    |                               |
| android:layout_height="wrap_content"   |                               |
|  | android:id="@+id/rgf17_1rb26" |
|  | android:layout_weight="1"/>   |
|  | <RadioButton                  |
|  | android:text="Kemampuan dalam |
| menulis laporan, memo dan dokumen"     |                               |
| android:layout_width="wrap_content"    |                               |



```

android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb27"
                                android:layout_weight="1"/>
        <RadioButton
                                android:text="Kemampuan untuk
terus belajar sepanjang hayat"
                                android:layout_width="wrap_content"
                                android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb28"
                                android:layout_weight="1"/>
        <RadioButton
                                android:text="Saya tidak mencari
kerja (langsung ke F8)"
                                android:layout_width="wrap_content"
                                android:layout_height="wrap_content"
                                android:id="@+id/rgf17_1rb29"
                                android:layout_weight="1"/>
    </RadioGroup>
</LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_margin="5dp"
    android:layout_height="wrap_content"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp"
    android:id="@+id/card_view16">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:layout_marginBottom="10dp"
            android:textColor="@color/black"
            android:text="F17-2: Pada saat ini, pada
tingkat mana kompetensi di bawah ini diperlukan dalam pekerjaan? (B)"
            android:id="@+id/label_11"/>

```

```

<RadioGroup
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/rgf17_2">
    <RadioButton
        android:text="Pengetahuan di bidang
atau disiplin ilmu anda"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/rgf17_2rb1"
        android:layout_weight="1"/>
    <RadioButton
        android:text="Pengetahuan di luar
bidang atau disiplin ilmu anda"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/rgf17_2rb2"
        android:layout_weight="1"/>
    <RadioButton
        android:text="Pengetahuan umum"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/rgf17_2rb3"
        android:layout_weight="1"/>
    <RadioButton
        android:text="Bahasa Inggris"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/rgf17_2rb4"
        android:layout_weight="1"/>
    <RadioButton
        android:text="Keterampilan internet"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/rgf17_2rb5"
        android:layout_weight="1"/>
    <RadioButton
        android:text="Keterampilan

```

android:id="@+id/rgf17\_2rb11"

```

                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Manajemen waktu"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rgf17_2rb12"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Bekerja secara
mandiri"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rgf17_2rb13"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Bekerja dalam
tim/bekerjasama dengan orang lain"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rgf17_2rb14"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Kemampuan dalam
memecahkan masalah"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rgf17_2rb15"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Negosiasi"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

                                android:id="@+id/rgf17_2rb16"
                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Kemampuan analisis"

android:layout_width="wrap_content"

```



```
android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
  
        android:id="@+id/rgef17_2rb23"  
        android:layout_weight="1"/>  
        <RadioButton  
            android:text="Kemampuan dalam  
memegang tanggungjawab"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
  
        android:id="@+id/rgef17_2rb24"  
        android:layout_weight="1"/>  
        <RadioButton  
            android:text="Inisiatif"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
  
        android:id="@+id/rgef17_2rb25"  
        android:layout_weight="1"/>  
        <RadioButton  
            android:text="Manajemen  
proyek/program"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
  
        android:id="@+id/rgef17_2rb26"  
        android:layout_weight="1"/>  
        <RadioButton  
            android:text="Kemampuan untuk  
memrepresentasikan ide/produk/laporan"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
  
        android:id="@+id/rgef17_2rb27"  
        android:layout_weight="1"/>  
        <RadioButton  
            android:text="Kemampuan dalam  
menulis laporan, memo dan dokumen"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"
```

```

                                android:layout_weight="1"/>
                                <RadioButton
                                android:text="Kemampuan untuk
terus belajar sepanjang hayat"
                                android:layout_width="wrap_content"
                                android:layout_height="wrap_content"
                                android:id="@+id/rgf17_2rb29"
                                android:layout_weight="1"/>
                                </RadioButton>
                                </LinearLayout>
                                </androidx.cardview.widget.CardView>

                                <Button
                                android:id="@+id/btnSimpan"
                                android:layout_width="fill_parent"
                                android:layout_height="wrap_content"
                                android:layout_marginTop="20dp"
                                android:layout_marginLeft="20dp"
                                android:layout_marginRight="20dp"
                                android:layout_marginBottom="40dp"
                                android:background="@drawable/shapelogin"
                                android:onClick="True"
                                android:text="Simpan"
                                android:textAllCaps="false"
                                android:textColor="#fff"
                                android:textSize="18sp"/>
                                </LinearLayout>
                                </ScrollView>
                                <ProgressBar
                                android:id="@+id/pbLoading"
                                android:layout_width="100dp"
                                android:layout_height="100dp"
                                android:layout_centerInParent="true"
                                android:layout_gravity="center"
                                style="@style/AppTheme"/>
                                </RelativeLayout>
                                </androidx.coordinatorlayout.widget.CoordinatorLayout>

```

### 12.32 activity\_validasi0.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bggradient"

```

```
android:orientation="vertical"
android:scrollbarAlwaysDrawVerticalTrack="true">
```

```
<RelativeLayout
```

```
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:layout_marginTop="70dp"
    android:background="#fff"
    android:elevation="4dp"
    android:orientation="vertical"
    android:padding="20dp">
```

```
<LinearLayout
```

```
    android:id="@+id/linearlayout1"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:paddingTop="30dp">
```

```
<ImageButton
```

```
    android:id="@+id/user_profile_photo"
    android:layout_width="64dp"
    android:layout_height="64dp"
    android:layout_gravity="center_horizontal"
    android:background="@drawable/validasi"/>
```

```
<TextView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"
    android:paddingTop="15dp"
    android:textColor="@color/black"
    android:textSize="@dimen/dp_30"
    android:text="Validasi"/>
```

```
<TextView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"
    android:textAlignment="center"
    android:paddingTop="25dp"
    android:textColor="@color/black"
    android:textSize="@dimen/dp_18"
    android:text="Akun anda dalam proses
```

```
validasi,nsilahkan tunggu paling lama\n1x24 jam\nsetelah anda mendaftar"/>
```

```
<Button
```



```

        android:id="@+id/btnTutup"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:layout_marginLeft="60dp"
        android:layout_marginRight="60dp"
        android:background="@drawable/shapellogin"
        android:onClick="True"
        android:text="Tutup"
        android:textAllCaps="false"
        android:textColor="#fff"
        android:textSize="18sp"/>
    </LinearLayout>
</RelativeLayout>

</RelativeLayout>

```

### 12.33 activity\_validasi1.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bggradient"
    android:orientation="vertical"
    android:scrollbarAlwaysDrawVerticalTrack="true">

    <RelativeLayout
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="30dp"
        android:layout_marginRight="30dp"
        android:layout_marginTop="70dp"
        android:background="#fff"
        android:elevation="4dp"
        android:orientation="vertical"
        android:padding="20dp">

        <LinearLayout
            android:id="@+id/linearlayout1"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical"
            android:paddingTop="30dp">

            <ImageButton
                android:id="@+id/user_profile_photo"
                android:layout_width="64dp"

```

```

        android:layout_height="64dp"
        android:layout_gravity="center_horizontal"
        android:background="@drawable/checked"/>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"
    android:paddingTop="15dp"
    android:textColor="@color/black"
    android:textSize="@dimen/dp_30"
    android:text="Berhasil"/>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"
    android:textAlignment="center"
    android:paddingTop="25dp"
    android:textColor="@color/black"
    android:textSize="@dimen/dp_18"
    android:text="Akun anda sudah validasi,\nsilahkan untuk
melakukan\ntracer study"/>
<Button
    android:id="@+id/btnMulai"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:layout_marginLeft="60dp"
    android:layout_marginRight="60dp"
    android:background="@drawable/shapelogin"
    android:onClick="True"
    android:text="Memulai"
    android:textAllCaps="false"
    android:textColor="#fff"
    android:textSize="18sp"/>
</LinearLayout>
</RelativeLayout>
</RelativeLayout>

```

#### 12.34 activity\_validasi2.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bggradient"

```

```
android:orientation="vertical"
android:scrollbarAlwaysDrawVerticalTrack="true">
```

```
<RelativeLayout
```

```
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:layout_marginTop="70dp"
    android:background="#fff"
    android:elevation="4dp"
    android:orientation="vertical"
    android:padding="20dp">
```

```
<LinearLayout
```

```
    android:id="@+id/linearlayout1"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:paddingTop="30dp">
```

```
<ImageButton
```

```
    android:id="@+id/user_profile_photo"
    android:layout_width="64dp"
    android:layout_height="64dp"
    android:layout_gravity="center_horizontal"
    android:background="@drawable/cancel"/>
```

```
<TextView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"
    android:paddingTop="15dp"
    android:textColor="@color/black"
    android:textSize="@dimen/dp_30"
    android:text="Gagal"/>
```

```
<TextView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"
    android:textAlignment="center"
    android:paddingTop="25dp"
    android:textColor="@color/black"
    android:textSize="@dimen/dp_18"
    android:text="Akun anda gagal divalidasi,nsilahkan isi
```

```
sesuai\ndengan nim yang benar"/>
```

```
<Button
```

```
    android:id="@+id/btnRegister"
    android:layout_width="fill_parent"
```

```

        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:layout_marginLeft="40dp"
        android:layout_marginRight="40dp"
        android:background="@drawable/shapelogin"
        android:onClick="True"
        android:text="Registrasi Kembali"
        android:textAllCaps="false"
        android:textColor="#fff"
        android:textSize="18sp"/>
    <Button
        android:id="@+id/btnTutup"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:layout_marginLeft="40dp"
        android:layout_marginRight="40dp"
        android:background="@drawable/shapelogin"
        android:onClick="True"
        android:text="Tutup"
        android:textAllCaps="false"
        android:textColor="#fff"
        android:textSize="18sp"/>
</LinearLayout>
</RelativeLayout>
</RelativeLayout>

```

### 12.35 dialog\_about.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <TextView
        android:text="X"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="15dp"
        android:layout_gravity="right"
        android:textSize="24dp"
        android:gravity="right"
        android:id="@+id/textClose"/>
    <ImageView
        android:id="@+id/image_profil"
        android:layout_width="100dp"
        android:layout_height="100dp"

```

```

        android:layout_gravity="center_horizontal"
        android:src="@drawable/unibba_fti"
        android:layout_margin="10dp"/>
    <TextView
        android:text="Tracer Alumni FTI\nUniversitas Bale Bandung"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:textSize="24dp"
        android:gravity="center_horizontal"
        android:textColor="@color/black"
        android:textStyle="bold"
        android:id="@+id/textNim"/>
    <TextView
        android:text=""
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:gravity="center_horizontal"
        android:id="@+id/textVersion"/>
    <TextView
        android:text="Aplikasi ini dikembangkan untuk\nmenghubungkan
kembali komunikasi\nantara alumni dengan civitas Universitas Bale Bandung"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:gravity="center_horizontal"
        android:id="@+id/textProdi"
        android:textColor="@color/black"
        android:layout_marginTop="15dp"
        android:layout_marginBottom="15dp"/>
    <Button
        android:text="Help Desk FTI Unibba"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center_horizontal"
        android:gravity="center_horizontal|center_vertical"
        android:background="@color/blue"
        android:textColor="@color/white"
        android:textSize="18dp"
        android:id="@+id/btnHelp"/>
</LinearLayout>

```

### 12.36 dialog\_angkatan\_search.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">

    <TextView
        android:text="Program Studi"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:id="@+id/textView2"/>

    <Spinner
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="5dp"
        android:entries="@array/prodi_array"
        android:id="@+id/prodi"/>

    <TextView
        android:text="Nim / Nama"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:id="@+id/textView3"/>

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp">
        <Spinner
            android:layout_width="150dp"
            android:layout_height="wrap_content"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="10dp"
            android:entries="@array/cari_nim_nama_array"
            android:id="@+id/nim_nama"/>
        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:inputType="text"
            android:hint="Cari..."
            android:ems="10"
            android:id="@+id/textCari"
            android:layout_toRightOf="@+id/nim_nama"
            android:layout_alignTop="@+id/nim_nama"/>
    </RelativeLayout>
</LinearLayout>
```

### 12.37 dialog\_chat\_showdate.xml

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

    <TextView
        android:text=" Delivery"
        android:drawableLeft="@drawable/ic_done_all_gray_24dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:textSize="18dp"
        android:textColor="@color/black"/>

    <TextView
        android:text="2019-02-01 00:00:00"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:textColor="@color/black"
        android:id="@+id/textdelivery"/>

    <TextView
        android:text=" Read"
        android:drawableLeft="@drawable/ic_done_all_green_24dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:textSize="18dp"
        android:textColor="@color/black"/>

    <TextView
        android:text="2019-02-01 00:00:00"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:textColor="@color/black"
        android:id="@+id/textread"/>

</LinearLayout>
```

### 12.38 dialog\_fakultas\_prodi.xml

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

            <Button
                android:id="@+id/btnTambah"
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:layout_margin="22dp"
                android:background="@drawable/shapelogin"
                android:onClick="True"
                android:text="Tambah Program Studi"
                android:textAllCaps="false"
                android:textColor="#fff"
                android:textSize="18sp"/>

            <androidx.recyclerview.widget.RecyclerView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="10dp"
                android:id="@+id/recycler_view"/>

        </LinearLayout>
    </ScrollView>
</LinearLayout>
```

### 12.39 dialog\_fakultas\_prodi\_adapter.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp">

    <TextView
        android:id="@+id/textNama"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_toLeftOf="@+id/imageedit"
        android:layout_centerVertical="true"
```



```

        android:fontFamily="sans-serif-medium"
        android:textColor="@android:color/black"
        android:text="Fakultas Teknologi Informasi"/>

<ImageView
    android:id="@+id/imageedit"
    android:layout_width="25dp"
    android:layout_height="25dp"
    android:layout_alignParentRight="true"
    android:scaleType="fitXY"
    android:layout_alignParentTop="true"
    android:layout_margin="@dimen/dp_4"
    android:src="@drawable/ic_more_horiz_black_24dp"/>
</RelativeLayout>

```

### 12.30 dialog\_fakultas\_prodi\_edit.xml

```

<?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"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

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

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

            <com.google.android.material.textfield.TextInputLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginTop="10dp"
                android:layout_marginLeft="10dp"
                android:layout_marginRight="10dp"
                app:passwordToggleEnabled="true"
                android:id="@+id/textInputLayout1">

                <EditText
                    android:id="@+id/inputId"
                    android:layout_width="fill_parent"
                    android:layout_height="wrap_content"
                    android:layout_marginTop="16dp"
                    android:singleLine="true"
                    android:drawableTint="#FF4081"
                    android:hint="ID"
                    android:inputType="text"/>

            </com.google.android.material.textfield.TextInputLayout>

```

```

        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginLeft="10dp"
            android:layout_marginRight="10dp"
            android:id="@+id/textInputLayout2">

            <com.google.android.material.textfield.TextInputEditText
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:hint="Nama"
                android:id="@+id/inputNama"/>

        </com.google.android.material.textfield.TextInputLayout>

        <Button
            android:id="@+id/btnSimpan"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:layout_margin="22dp"
            android:background="@drawable/shapellogin"
            android:onClick="True"
            android:text="Simpan"
            android:textAllCaps="false"
            android:textColor="#fff"
            android:textSize="18sp"/>

    </LinearLayout>
</ScrollView>
</LinearLayout>

```

### 12.31 dialog\_lainnya.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/recycler_view"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="10dp"/>
</LinearLayout>

```

### 12.32 dialog\_pengelolaan\_user.xml

```

<?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"
    android:orientation="vertical"

```

```

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

        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginTop="10dp"
            android:layout_marginLeft="10dp"
            android:layout_marginRight="10dp"
            android:id="@+id/textInputLayout">

            <com.google.android.material.textfield.TextInputEditText
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:hint="Nim"
                android:id="@+id/textNim"/>
            </com.google.android.material.textfield.TextInputLayout>

            <com.google.android.material.textfield.TextInputLayout
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:layout_marginTop="10dp"
                android:layout_marginLeft="10dp"
                android:layout_marginRight="10dp"
                android:id="@+id/textInputLayout2">

                <com.google.android.material.textfield.TextInputEditText
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:hint="Nama"
                    android:id="@+id/textNama"/>
                </com.google.android.material.textfield.TextInputLayout>

                <com.google.android.material.textfield.TextInputLayout
                    android:layout_width="match_parent"
                    android:layout_height="match_parent"
                    android:layout_marginTop="10dp"
                    android:layout_marginLeft="10dp"
                    android:layout_marginRight="10dp"
                    android:id="@+id/textInputLayout3">

                    <com.google.android.material.textfield.TextInputEditText

```

```
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Email"
        android:id="@+id/textEmail"/>
</com.google.android.material.textfield.TextInputLayout>
```

```
<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="10dp"
    android:layout_marginRight="10dp"
    app:passwordToggleEnabled="true"
    android:id="@+id/pass1layout">
```

```
<EditText
```

```
    android:id="@+id/inputPassword1"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="16dp"
    android:singleLine="true"
    android:drawableTint="#FF4081"
    android:hint="Password"
    android:inputType="textPassword"/>
```

```
</com.google.android.material.textfield.TextInputLayout>
```

```
<com.google.android.material.textfield.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="10dp"
    android:layout_marginRight="10dp"
    app:passwordToggleEnabled="true"
    android:id="@+id/pass2layout">
```

```
<EditText
```

```
    android:id="@+id/inputPassword2"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="16dp"
    android:singleLine="true"
    android:drawableTint="#FF4081"
    android:hint="Ulangi Password"
    android:inputType="textPassword"/>
```

```
</com.google.android.material.textfield.TextInputLayout>
```

```
<TextView
```

```
    android:text="Hak Akses"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/label_hak_akses"
```

```

        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"/>
    <Spinner
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="10dp"
        android:entries="@array/hak_akses_array"
        android:id="@+id/hak_akses"/>
    <Button
        android:id="@+id/btnSimpan"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_margin="22dp"
        android:background="@drawable/shapellogin"
        android:onClick="True"
        android:text="Simpan"
        android:textAllCaps="false"
        android:textColor="#fff"
        android:textSize="18sp"/>
</LinearLayout>
</ScrollView>
</LinearLayout>

```

### 12.33 dialog\_prodi\_angkatan\_search.xml

```

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

    <TextView
        android:text="Program Studi"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="5dp"

        android:id="@+id/textView2"/>
    <com.toptoeche.searchablespinnerlibrary.SearchableSpinner
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="5dp"
        android:id="@+id/prodi"/>
    <TextView
        android:text="Tahun"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="5dp"
        android:id="@+id/textView3"/>

```

```

<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="5dp">

    <RadioGroup
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:id="@+id/radioGroup1"
        android:layout_margin="5dp">
        <RadioButton
            android:text="Semua"
            android:layout_width="30dp"
            android:layout_height="wrap_content"
            android:id="@+id/radioButton1"
            android:layout_weight="1"
            android:textSize="10dp"
            android:checked="true"/>
        <RadioButton
            android:text="Tahun"
            android:layout_width="30dp"
            android:layout_height="wrap_content"
            android:id="@+id/radioButton2"
            android:textSize="10dp"
            android:layout_weight="1"/>
        <RadioButton
            android:text="Tahun s/d Tahun"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/radioButton3"
            android:textSize="10dp"
            android:layout_weight="1"/>
    </RadioGroup>
    <EditText
        android:layout_width="150dp"
        android:layout_height="wrap_content"
        android:inputType="number"
        android:hint="Tahun"
        android:layout_marginTop="10dp"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="10dp"
        android:ems="10"
        android:id="@+id/textTahun1"
        android:layout_below="@+id/radioGroup1"/>
    <EditText
        android:layout_width="150dp"

```

```

        android:layout_height="wrap_content"
        android:inputType="number"
        android:hint="Tahun"
        android:ems="10"
        android:id="@+id/textTahun2"
        android:layout_toRightOf="@+id/textTahun1"
        android:layout_alignTop="@+id/textTahun1"/>
    </RelativeLayout>
</LinearLayout>

```

#### 12.34 dialog profil edit.xml

```

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

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="10dp"
        android:id="@+id/textInputLayout">

        <com.google.android.material.textfield.TextInputEditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="hint"
            android:id="@+id/textInput"/>
    </com.google.android.material.textfield.TextInputLayout>

    <com.toptoeche.searchablespinnerlibrary.SearchableSpinner
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="10dp"
        android:id="@+id/fakultas" />
    <com.toptoeche.searchablespinnerlibrary.SearchableSpinner
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="10dp"
        android:id="@+id/prodi" />

</LinearLayout>

```

#### 12.35 dialog profil lokasi.xml

```

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

```

```

<ScrollView
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <LinearLayout android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <com.google.android.gms.maps.MapView
            android:layout_width="match_parent"
            android:layout_height="200dp"
            android:layout_margin="10dp"
            android:id="@+id/mapView"/>
        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="10dp"
            android:id="@+id/textInputLayout">

            <com.google.android.material.textfield.TextInputEditText
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:hint="hint"
                android:id="@+id/textInput"/>
        </com.google.android.material.textfield.TextInputLayout>
        <TextView
            android:text="Catatan :\n* Pastikan saat set lokasi
sedang berada di rumah"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="10dp"
            android:id="@+id/textView5"/>
        <Button
            android:text=" Set Lokasi "
            android:drawableLeft="@drawable/ic_edit_location_white_24dp"
            android:background="@drawable/shapelogin"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center_horizontal"
            android:layout_marginTop="10dp"
            android:layout_marginBottom="25dp"
            android:textColor="@color/white"
            android:textStyle="bold"
            android:id="@+id/btnSetLokasi"/>
    </LinearLayout>
</ScrollView>
</LinearLayout>

```



### 12.36 dialog\_userinfo.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <LinearLayout android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">
            <ImageView
                android:id="@+id/image_profil"
                android:layout_width="150dp"
                android:layout_height="150dp"
                android:layout_gravity="center_horizontal"
                android:layout_margin="10dp"/>
            <TextView
                android:text="Nim"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="10dp"
                android:layout_marginRight="10dp"
                android:id="@+id/textNim"/>
            <TextView
                android:text="Nama"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="10dp"
                android:layout_marginRight="10dp"
                android:id="@+id/textNama"/>
            <TextView
                android:text="Program Studi"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="10dp"
                android:layout_marginRight="10dp"
                android:id="@+id/textProdi"/>
            <TextView
                android:text="Angkatan"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="10dp"
                android:layout_marginRight="10dp"
                android:id="@+id/textAngkatan"/>
            <ImageView
                android:id="@+id/kirim_pesan"
```

```

        android:layout_width="40dp"
        android:layout_height="40dp"
        android:src="@drawable/ic_mail_outline_24dp"
        android:layout_gravity="center_horizontal"
        android:layout_marginTop="10dp"/>
    <TextView
        android:text="Kirim Pesan"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center_horizontal"
        android:id="@+id/textKirimpesan"
        android:layout_marginBottom="10dp"/>
    </LinearLayout>
</ScrollView>
</LinearLayout>

```

### 12.37 fragment\_backup.xml

```

<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:focusable="true"
    android:focusableInTouchMode="true">

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="10dp">
        <LinearLayout android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">

            <TextView
                android:text="Backup Data\nPilihan backup data sesuai
yang dichecklist"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="5dp"
                android:id="@+id/textView14"/>

            <CheckBox
                android:text="Alumni"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginLeft="5dp"
                android:checked="true"
                android:id="@+id/cb1"/>
            <CheckBox

```

```

        android:text="Tracer Study"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:checked="true"
        android:id="@+id/cb2"/>
<CheckBox
    android:text="Chat"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="true"
    android:id="@+id/cb3"/>
<CheckBox
    android:text="Forum"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="true"
    android:id="@+id/cb4"/>
<CheckBox
    android:text="Loker"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="true"
    android:id="@+id/cb5"/>
<CheckBox
    android:text="Pengumuman"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="true"
    android:id="@+id/cb6"/>
<Button
    android:text="Backup data"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textColor="@color/white"
    android:textStyle="bold"
    android:layout_margin="10dp"
    android:clickable="true"
    android:background="@drawable/shaperectangle"
    android:id="@+id/button1"/>
<TextView
    android:text="Hapus Data Kadaluarsa\nPilihan hapus
data sesuai yang dichecklist"
    android:layout_width="match_parent"

```

```
        android:layout_height="wrap_content"
        android:layout_margin="5dp"
        android:id="@+id/textView15"/>
```

```
<CheckBox
    android:text="Chat"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="false"
    android:id="@+id/cb7"/>
```

```
<CheckBox
    android:text="Forum"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="false"
    android:id="@+id/cb8"/>
```

```
<CheckBox
    android:text="Loker"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="false"
    android:id="@+id/cb9"/>
```

```
<CheckBox
    android:text="Pengumuman"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="false"
    android:id="@+id/cb10"/>
```

```
<Button
    android:text="Hapus Data"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textColor="@color/white"
    android:textStyle="bold"
    android:layout_margin="10dp"
    android:clickable="true"
    android:background="@drawable/shaperectangle"
    android:id="@+id/button2"/>
```

```
<TextView
    android:text="Hapus Semua Data Lainnya\nPilihan
hapus semua data sesuai yang dichecklist"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp"
```

```

        android:id="@+id/textView16"/>
<CheckBox
    android:text="Alumni"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="false"
    android:id="@+id/cb11"/>
<CheckBox
    android:text="Tracer Study"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="false"
    android:id="@+id/cb12"/>
<CheckBox
    android:text="Chat"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="false"
    android:id="@+id/cb13"/>
<CheckBox
    android:text="Forum"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="false"
    android:id="@+id/cb14"/>
<CheckBox
    android:text="Loker"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="false"
    android:id="@+id/cb15"/>
<CheckBox
    android:text="Pengumuman"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:checked="false"
    android:id="@+id/cb16"/>
<Button
    android:text="Hapus Semua Data"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textColor="@color/white"

```

```

        android:textStyle="bold"
        android:layout_margin="10dp"
        android:clickable="true"
        android:background="@drawable/shaperectangle"
        android:id="@+id/button3"/>
    </LinearLayout>
</ScrollView>

<ProgressBar
    android:id="@+id/pbLoading"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_centerInParent="true"
    android:layout_gravity="center"
    style="@style/AppTheme"/>

</FrameLayout>

```

### 12.38 fragment\_chat.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginBottom="60dp">

    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/appBarLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

        android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
            android:background="@color/colorPrimary"/>
        </com.google.android.material.appbar.AppBarLayout>

    <androidx.recyclerview.widget.RecyclerView
        android:layout_marginTop="60dp"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/recycler_view"/>

```

```

<com.google.android.material.floatingactionbutton.FloatingActionButton
    android:id="@+id/fab"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="bottom|right"
    android:layout_margin="25dp"
    android:clickable="true"
    android:layout_above="@id/nav_view"
    android:src="@drawable/ic_perm_contact_calendar_white_24dp"
    app:backgroundTint="@color/blue"
    app:fabSize="mini"
    app:elevation="12dp"
    app:borderWidth="0dp"/>

<ProgressBar
    android:id="@+id/pbLoading"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerInParent="true"
    android:layout_gravity="center"
    style="@style/AppTheme"/>

<TextView
    android:text="Obrolan Kosong\nAnda belum memulai
obrolan\nsilahkan cari alumni dan mulai obrolan"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/textKosong"
    android:layout_gravity="center"
    android:gravity="center"/>
</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

### 12.39 fragment\_chat\_adapter.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="10dp">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:layout_centerVertical="true"
        android:layout_alignParentTop="true"
        android:layout_marginTop="6dp"
        android:layout_marginRight="10dp"/>

```

```

<TextView
    android:text="2019-01-01 00:00:00"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="10dp"
    android:textColor="@color/black"
    android:gravity="right"
    android:layout_toRightOf="@+id/imageView"
    android:id="@+id/labelTanggal"/>

<TextView
    android:text="[C1A150029] DENI HIDAYAT"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="14dp"
    android:textColor="@color/black"
    android:layout_below="@+id/labelTanggal"
    android:layout_toRightOf="@+id/imageView"
    android:id="@+id/labelNama"/>

<com.vanniktech.emoji.EmojiTextView
    android:text="pesan"
    android:layout_width="match_parent"
    android:layout_height="20dp"
    android:textColor="@color/black"
    android:layout_below="@+id/labelNama"
    android:layout_toRightOf="@+id/imageView"
    android:layout_toLeftOf="@+id/labelCount"
    android:id="@+id/labelPesan"/>

<TextView
    android:text="7"
    android:layout_width="20dp"
    android:layout_height="20dp"
    android:gravity="center"
    android:textSize="10dp"
    android:textColor="@android:color/white"
    android:background="@drawable/bg_circle"
    android:layout_below="@+id/labelNama"
    android:layout_alignParentRight="true"
    android:id="@+id/labelCount"/>

```

```

</RelativeLayout>

```

#### 12.40 fragment\_chat\_message\_adapter.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"

```



```
android:id="@+id/ll_parent"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:gravity="end"
android:orientation="horizontal">
```

```
<LinearLayout
```

```
    android:id="@+id/ll_child"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_margin="8dp"
    android:background="@drawable/chat_background_sender"
    android:orientation="vertical">
```

```
<RelativeLayout
```

```
    android:id="@+id/rl_name"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerVertical="true"
    android:layout_margin="5dp">
```

```
<com.vanniktech.emoji.EmojiTextView
```

```
    android:id="@+id/textnama"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerVertical="true"
    android:layout_marginLeft="5dp"
    android:gravity="start"
    android:text="SkyTreasure"
    android:textColor="@color/black"
    android:textSize="12sp"/>
```

```
<com.vanniktech.emoji.EmojiTextView
```

```
    android:id="@+id/texttanggal"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="8dp"
    android:layout_marginStart="16dp"
    android:layout_toEndOf="@+id/textnama"
    android:gravity="end"
    android:text="12:30 PM"
    android:textSize="10sp"
    android:textColor="@color/black"
    android:layout_toRightOf="@+id/textnama"
    android:layout_alignParentTop="true"
    android:layout_alignParentRight="true"
    android:layout_marginLeft="16dp"
```

```

        android:layout_marginRight="8dp"/>
    </RelativeLayout>

    <com.vanniktech.emoji.EmojiTextView
        android:id="@+id/textpesan"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom"
        android:layout_marginTop="5dp"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:text="Hello, How are you"
        android:textColor="@color/black"
        android:textSize="14sp"/>

    <ImageView
        android:id="@+id/imageread"
        android:layout_width="20dp"
        android:layout_height="20dp"
        android:layout_gravity="right"
        android:layout_marginRight="10dp"
        android:layout_marginBottom="5dp"/>
</LinearLayout>
</LinearLayout>

```

#### 12.41 fragment\_dashboard.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginBottom="60dp"
    android:focusable="true"
    android:focusableInTouchMode="true">

    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/appBarLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

        android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            app:popupTheme="@style/ThemeOverlay.AppCompat.Light"

```

```

        android:background="@color/colorPrimary"
        app:titleTextAppearance="@style/ToolbarTitleTheme"

app:subtitleTextAppearance="@style/ToolbarSubtitleTheme"/>
</com.google.android.material.appbar.AppBarLayout>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view1"
    android:layout_width="match_parent"
    android:layout_marginLeft="@dimen/row_padding"
    android:layout_marginRight="@dimen/row_padding"
    android:layout_height="wrap_content"
    android:padding="15dp"
    app:cardElevation="2dp"
    app:cardCornerRadius="4dp"
    android:layout_marginTop="60dp">
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Status Pengguna"
            android:layout_marginTop="5dp"
            android:textSize="12dp"
            android:layout_marginLeft="@dimen/row_padding"
            android:id="@+id/tv_status_pengguna"/>
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Alumni"
            android:textColor="@color/colorPrimary"
            android:textStyle="bold"
            android:textSize="12dp"
            android:id="@+id/tv_status_user"
            android:layout_toRightOf="@+id/tv_status_pengguna"
            android:layout_toLeftOf="@+id/tv_online"
            android:layout_marginTop="5dp"
            android:layout_marginLeft="@dimen/row_padding"
            android:layout_marginBottom="5dp"/>
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Online"
            android:textColor="@color/white"
            android:background="@drawable/shapelogin"
            android:layout_alignParentRight="true"

```

```

        android:layout_alignParentTop="true"
        android:layout_marginRight="5dp"
        android:layout_marginTop="5dp"
        android:id="@+id/tv_online"/>
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@+id/tv_online">
    <ImageView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

android:background="@drawable/ic_search_grey_24dp"
        android:layout_centerVertical="true"
        android:layout_alignParentLeft="true"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:id="@+id/ImageView1"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textSize="12dp"

android:layout_toRightOf="@+id/ImageView1"
        android:layout_toLeftOf="@+id/imageCari"
        android:hint="Cari Alumni"
        android:id="@+id/textCari"/>
    <ImageView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

android:background="@drawable/ic_arrow_forward_grey_24dp"
        android:layout_centerVertical="true"
        android:layout_alignParentRight="true"
        android:clickable="true"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:id="@+id/imageCari"/>
    </RelativeLayout>

</RelativeLayout>
</androidx.cardview.widget.CardView>

<include layout="@layout/fragment_dashboard_admin"/>
<include layout="@layout/fragment_dashboard_alumni"/>

```



```

        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:clickable="true"

        android:background="?attr/selectableItemBackground"
        android:id="@+id/rl1">
        <ImageView
            android:id="@+id/imageView1"
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:layout_centerVertical="true"
            android:layout_alignParentLeft="true"
            android:src="@drawable/profil"
            android:layout_marginLeft="5dp"/>

        <TextView
            android:text="Total registrasi belum
validasi"

            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="12dp"
            android:layout_marginTop="5dp"
            android:layout_marginLeft="10dp"
            android:layout_marginRight="10dp"

            android:layout_toRightOf="@id/imageView1"

            android:layout_toEndOf="@id/imageView1"
            android:id="@+id/labelregistrasi"/>

        <TextView
            android:text="0"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textColor="@color/black"
            android:layout_marginLeft="10dp"
            android:layout_marginRight="10dp"
            android:layout_marginBottom="5dp"

            android:layout_below="@id/labelregistrasi"

            android:layout_toRightOf="@id/imageView1"

            android:layout_toEndOf="@id/imageView1"
            android:id="@+id/textRegistrasi"/>

    </RelativeLayout>
</View>

```

```

        android:layout_width="match_parent"
        android:layout_height="0.5dp"
        android:background="@color/gray"/>
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:clickable="true"

android:background="?attr/selectableItemBackground"
        android:id="@+id/rl2">
        <ImageView
            android:id="@+id/imageView2"
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:layout_centerVertical="true"
            android:layout_alignParentLeft="true"
            android:src="@drawable/profil"
            android:layout_marginLeft="5dp"/>

        <TextView
            android:text="Total pengguna belum
mengisi tracer alumni"

            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="12dp"
            android:layout_marginTop="5dp"
            android:layout_marginLeft="10dp"
            android:layout_marginRight="10dp"

android:layout_toRightOf="@id/imageView2"

android:layout_toEndOf="@id/imageView2"
            android:id="@+id/labelbelumtracer"/>

        <TextView
            android:text="0"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textColor="@color/black"
            android:layout_marginLeft="10dp"
            android:layout_marginRight="10dp"
            android:layout_marginBottom="5dp"

android:layout_below="@id/labelbelumtracer"

android:layout_toRightOf="@id/imageView2"

```

```

android:layout_toEndOf="@id/imageView2"
        android:id="@+id/textBelumTracer"/>

</RelativeLayout>
<View
        android:layout_width="match_parent"
        android:layout_height="0.5dp"
        android:background="@color/gray"/>
<RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:clickable="true"

android:background="?attr/selectableItemBackground"
        android:id="@+id/r13">
    <ImageView
        android:id="@+id/imageView3"
        android:layout_width="32dp"
        android:layout_height="32dp"
        android:layout_centerVertical="true"
        android:layout_alignParentLeft="true"
        android:src="@drawable/profil"
        android:layout_marginLeft="5dp"/>

    <TextView
        android:text="Total pengguna admin"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="12dp"
        android:layout_marginTop="5dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"

android:layout_toRightOf="@id/imageView3"

android:layout_toEndOf="@id/imageView3"
        android:id="@+id/labeladmin"/>

    <TextView
        android:text="0"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textColor="@color/black"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:layout_marginBottom="5dp"
        android:layout_below="@id/labeladmin"

```



```

android:layout_toRightOf="@id/imageView3"

android:layout_toEndOf="@id/imageView3"
    android:id="@+id/textAdmin"/>

</RelativeLayout>
<View
    android:layout_width="match_parent"
    android:layout_height="0.5dp"
    android:background="@color/gray"/>
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:clickable="true"

android:background="?attr/selectableItemBackground"
    android:id="@+id/rl4">
    <ImageView
        android:id="@+id/imageView4"
        android:layout_width="32dp"
        android:layout_height="32dp"
        android:layout_centerVertical="true"
        android:layout_alignParentLeft="true"
        android:src="@drawable/profil"
        android:layout_marginLeft="5dp"/>

    <TextView
        android:text="Total pengguna alumni"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="12dp"
        android:layout_marginTop="5dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"

android:layout_toRightOf="@id/imageView4"

android:layout_toEndOf="@id/imageView4"
    android:id="@+id/labeluser"/>

    <TextView
        android:text="0"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textColor="@color/black"
        android:layout_marginLeft="10dp"

```

```

        android:layout_marginRight="10dp"
        android:layout_marginBottom="5dp"
        android:layout_below="@id/labeluser"

    android:layout_toRightOf="@id/imageView4"

    android:layout_toEndOf="@id/imageView4"
        android:id="@+id/textUser"/>

    </RelativeLayout>
</LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:id="@+id/card_view_ps"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="@dimen/row_padding"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp">

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

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="16sp"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:textStyle="bold"
            android:text="Program Studi"/>
        <com.github.mikephil.charting.charts.BarChart
            android:id="@+id/barchart_f2_ps"
            android:layout_width="match_parent"
            android:layout_height="300dp"
            android:layout_marginBottom="10dp"/>

    </LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
xmlns:card_view="http://schemas.android.com/apk/res-auto"

```

```
android:id="@+id/card_view_akt"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_margin="@dimen/row_padding"
android:padding="15dp"
card_view:cardElevation="2dp"
card_view:cardCornerRadius="4dp">
```

```
<LinearLayout
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="16sp"
        android:layout_margin="5dp"
        android:textColor="@color/colorPrimary"
        android:textStyle="bold"
        android:text="Angkatan"/>
    <com.github.mikephil.charting.charts.BarChart
        android:id="@+id/barchart_f2_akt"
        android:layout_width="match_parent"
        android:layout_height="300dp"
        android:layout_marginBottom="10dp"/>
</LinearLayout>
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
```

```
xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:id="@+id/card_view31"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="@dimen/row_padding"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp">
```

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

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="5dp"
```

Lulusan"/>

```
android:textColor="@color/colorPrimary"
android:text="F2: Kepuasan Pengguna
```

```
<TextView
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="1. Etika"/>
```

```
<com.github.mikephil.charting.charts.BarChart
```

```
    android:id="@+id/barchart_f2_8"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_marginBottom="10dp"/>
```

```
<TextView
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="2. Keahlian Pada Bidang Ilmu
```

(Kompetensi Utama)/>

```
<com.github.mikephil.charting.charts.BarChart
```

```
    android:id="@+id/barchart_f2_9"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_marginBottom="10dp"/>
```

```
<TextView
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="3. Kemampuan Berbahasa
```

Asing"/>

```
<com.github.mikephil.charting.charts.BarChart
```

```
    android:id="@+id/barchart_f2_10"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_marginBottom="10dp"/>
```

```
<TextView
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="4. Penggunaan Teknologi
```

Informasi"/>

```
<com.github.mikephil.charting.charts.BarChart
    android:id="@+id/barchart_f2_11"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_marginBottom="10dp"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="5. Kemampuan
```

Berkomunikasi"/>

```
<com.github.mikephil.charting.charts.BarChart
    android:id="@+id/barchart_f2_12"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_marginBottom="10dp"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="6. Kerjasama"/>
<com.github.mikephil.charting.charts.BarChart
    android:id="@+id/barchart_f2_13"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_marginBottom="10dp"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="7. Pengembangan Diri"/>
<com.github.mikephil.charting.charts.BarChart
    android:id="@+id/barchart_f2_14"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_marginBottom="10dp"/>
```

</LinearLayout>

</androidx.cardview.widget.CardView>

```

<androidx.cardview.widget.CardView
xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:id="@+id/card_view3"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="@dimen/row_padding"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp">

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

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:text="F2: Menurut anda seberapa
besar penekanan pada metode pembelajaran di bawah ini dilaksanakan di program
studi"/>

            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="5dp"
                android:textColor="@color/black"
                android:textSize="12dp"
                android:text="1. Diskusi"/>

            <com.github.mikephil.charting.charts.BarChart
                android:id="@+id/barchart_f2_1"
                android:layout_width="match_parent"
                android:layout_height="300dp"
                android:layout_marginBottom="10dp"/>

            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="5dp"
                android:textColor="@color/black"
                android:textSize="12dp"
                android:text="2. Demonstrasi"/>

            <com.github.mikephil.charting.charts.BarChart
                android:id="@+id/barchart_f2_2"
                android:layout_width="match_parent"
                android:layout_height="300dp"
                android:layout_marginBottom="10dp"/>

```

```

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="3. Kerja Lapangan"/>
<com.github.mikephil.charting.charts.BarChart
    android:id="@+id/barchart_f2_3"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_marginBottom="10dp"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="4. Magang"/>
<com.github.mikephil.charting.charts.BarChart
    android:id="@+id/barchart_f2_4"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_marginBottom="10dp"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="5. Praktikum"/>
<com.github.mikephil.charting.charts.BarChart
    android:id="@+id/barchart_f2_5"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_marginBottom="10dp"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="6. Perkuliahan"/>
<com.github.mikephil.charting.charts.BarChart
    android:id="@+id/barchart_f2_6"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_marginBottom="10dp"/>

```

```

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="7. Partisipasi dalam proyek dan
riset"/>

<com.github.mikephil.charting.charts.BarChart
    android:id="@+id/barchart_f2_7"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_marginBottom="10dp"/>

</LinearLayout>

</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:id="@+id/card_view4"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="@dimen/row_padding"
    android:padding="15dp"
    card_view:cardElevation="2dp"
    card_view:cardCornerRadius="4dp">

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

        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:text="F3: Kapan anda mulai mencari
pekerjaan? Mohon pekerjaan sambilan tidak dimasukkan"/>
        <com.github.mikephil.charting.charts.BarChart
            android:id="@+id/barchart_f3"
            android:layout_width="match_parent"
            android:layout_height="300dp"
            android:layout_marginBottom="10dp"/>
        <TextView
            android:layout_width="match_parent"

```



```

        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:text="F3 Deskripsi :"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="1. Sebelum lulus S/D. 2 bulan
setelah Lulus"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="2. 3 - 8 bulan setelah lulus"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="3. Diatas 8 bulan setelah lulus"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="4. Saya tidak mencari kerja
(langsung ke F8)"
    android:layout_marginBottom="10dp"/>

</LinearLayout>

</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view5"
    android:layout_width="match_parent"

```

```

        android:layout_margin="@dimen/row_padding"
        android:layout_height="match_parent"
        android:padding="15dp"
        app:cardElevation="2dp"
        app:cardCornerRadius="4dp">

```

```

<LinearLayout
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp"
        android:textColor="@color/colorPrimary"
        android:text="F4: Bagaimana anda mencari

```

pekerjaan tersebut? Jawaban bisa lebih dari satu \*"/>

```

    <com.github.mikephil.charting.charts.BarChart
        android:id="@+id/barchart_f4"
        android:layout_width="match_parent"
        android:layout_height="300dp"
        android:layout_marginBottom="10dp"/>

```

```

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:text="F4 Deskripsi :"/>

```

```

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="1. Melalui iklan di

```

koran/majalah, brosur"/>

```

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="2. Melamar ke perusahaan tanpa

```

mengetahui lowongan yang ada"/>

```

<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="3. Pergi ke bursa/pameran
kerja"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="4. Mencari lewat internet/iklan
online/milis"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="5. Dihubungi oleh perusahaan"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="6. Menghubungi
Kemenakertrans"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="7. Menghubungi agen tenaga
kerja komersial/swasta"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"

```

```

        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="8. Memeroleh informasi dari
pusat/kantor pengembangan karir fakultas/universitas"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="9. Menghubungi kantor
kemahasiswaan/hubungan alumni"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="10. Membangun jejaring
(network) sejak masih kuliah"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="11. Melalui relasi (misalnya
dosen, orang tua, saudara, teman, dll.)"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="12. Membangun bisnis
sendiri"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"

```

```

        android:text="13. Melalui penempatan kerja
atau magang"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="14. Bekerja di tempat yang sama
dengan tempat kerja semasa kuliah"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="15. Other"/>
</LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view6"
    android:layout_width="match_parent"
    android:layout_margin="@dimen/row_padding"
    android:layout_height="match_parent"
    android:padding="15dp"
    app:cardElevation="2dp"
    app:cardCornerRadius="4dp">

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

        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:text="F5: Berapa bulan waktu yang
dihabiskan (sebelum dan sesudah kelulusan) untuk memperoleh pekerjaan
pertama?"/>

            <com.github.mikephil.charting.charts.PieChart
                android:id="@+id/piechart_f5"
                android:layout_width="match_parent"
                android:layout_height="300dp"

```

```
android:layout_marginBottom="10dp"/>
```

```
</LinearLayout>
```

```
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
    android:id="@+id/card_view7"
    android:layout_width="match_parent"
    android:layout_margin="@dimen/row_padding"
    android:layout_height="match_parent"
    android:padding="15dp"
    app:cardElevation="2dp"
    app:cardCornerRadius="4dp">
```

```
<LinearLayout
```

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

```
<TextView
```

```
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="5dp"
    android:textColor="@color/colorPrimary"
    android:text="F6: Berapa
```

```
perusahaan/instansi/institusi yang sudah anda lamar (lewat surat atau e-mail)
sebelum anda memperoleh pekerjaan pertama?"/>
```

```
<com.github.mikephil.charting.charts.BarChart
    android:id="@+id/barchart_f6"
    android:layout_width="match_parent"
    android:layout_height="300dp"/>
```

```
</LinearLayout>
```

```
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
    android:id="@+id/card_view8"
    android:layout_width="match_parent"
    android:layout_margin="@dimen/row_padding"
    android:layout_height="match_parent"
    android:padding="15dp"
    app:cardElevation="2dp"
    app:cardCornerRadius="4dp">
```

```
<LinearLayout
```

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

```

        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:text="F7: Berapa banyak
perusahaan/instansi/institusi yang merespons lamaran anda? *"/>

        <com.github.mikephil.charting.charts.BarChart
            android:id="@+id/barchart_f7"
            android:layout_width="match_parent"
            android:layout_height="300dp"/>

    </LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view9"
    android:layout_width="match_parent"
    android:layout_margin="@dimen/row_padding"
    android:layout_height="match_parent"
    android:padding="15dp"
    app:cardElevation="2dp"
    app:cardCornerRadius="4dp">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:text="F7a: Berapa banyak
perusahaan/instansi/institusi yang mengundang anda untuk wawancara?"/>
        <com.github.mikephil.charting.charts.BarChart
            android:id="@+id/barchart_f7a"
            android:layout_width="match_parent"
            android:layout_height="300dp"/>

    </LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view10"
    android:layout_width="match_parent"
    android:layout_margin="@dimen/row_padding"

```

```

        android:layout_height="match_parent"
        android:padding="15dp"
        app:cardElevation="2dp"
        app:cardCornerRadius="4dp">

        <LinearLayout
            android:orientation="vertical"
            android:layout_width="match_parent"
            android:layout_height="match_parent">
            <TextView
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:layout_margin="5dp"
                android:textColor="@color/colorPrimary"
                android:text="F8: Apakah anda bekerja saat ini
(termasuk kerja sambilan dan wirausaha)? */>

                <com.github.mikephil.charting.charts.PieChart
                    android:id="@+id/piechart_f8"
                    android:layout_width="match_parent"
                    android:layout_height="300dp"
                    android:layout_marginBottom="10dp"/>

            </LinearLayout>
        </androidx.cardview.widget.CardView>

        <androidx.cardview.widget.CardView
            android:id="@+id/card_view11"
            android:layout_width="match_parent"
            android:layout_margin="@dimen/row_padding"
            android:layout_height="match_parent"
            android:padding="15dp"
            app:cardElevation="2dp"
            app:cardCornerRadius="4dp">

            <LinearLayout
                android:orientation="vertical"
                android:layout_width="match_parent"
                android:layout_height="match_parent">
                <TextView
                    android:layout_width="match_parent"
                    android:layout_height="match_parent"
                    android:layout_margin="5dp"
                    android:textColor="@color/colorPrimary"
                    android:text="F9: Bagaimana anda
menggambarkan situasi anda saat ini? Jawaban bisa lebih dari satu */>

                    <com.github.mikephil.charting.charts.BarChart

```



```

        android:id="@+id/barchart_f9"
        android:layout_width="match_parent"
        android:layout_height="300dp"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:text="F9 Deskripsi :"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="1. Saya masih
belajar/melanjutkan kuliah profesi atau pascasarjana"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="2. Saya Menikah"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="3. Saya sibuk dengan keluarga
dan anak-anak"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
    android:textColor="@color/black"
    android:textSize="12dp"
    android:text="4. Saya sekarang sedang mencari
pekerjaan"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"

```

```

        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="5. Other"/>

    </LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view12"
    android:layout_width="match_parent"
    android:layout_margin="@dimen/row_padding"
    android:layout_height="match_parent"
    android:padding="15dp"
    app:cardElevation="2dp"
    app:cardCornerRadius="4dp">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:text="F10: Apakah anda aktif mencari
pekerjaan dalam 4 minggu terakhir? Pilihlah Satu Jawaban. KEMUDIAN
LANJUT KE F17"/>

        <com.github.mikephil.charting.charts.BarChart
            android:id="@+id/barchart_f10"
            android:layout_width="match_parent"
            android:layout_height="300dp"/>

        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="5dp"
            android:textColor="@color/black"
            android:text="F10 Deskripsi :"/>

        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="5dp"

```

```

        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="1. Tidak"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="2. Tidak, tapi saya sedang
menunggu hasil lamaran kerja"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="3. Ya, saya akan mulai bekerja
dalam 2 minggu ke depan"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="4. Ya, tapi saya belum pasti akan
bekerja dalam 2 minggu ke depan"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="5. Other"/>
</LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view13"
    android:layout_width="match_parent"
    android:layout_margin="@dimen/row_padding"
    android:layout_height="match_parent"
    android:padding="15dp"
    app:cardElevation="2dp"

```

```

app:cardCornerRadius="4dp">

<LinearLayout
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp"
        android:textColor="@color/colorPrimary"
        android:text="F11: Apa jenis
perusahaan/instansi/institusi tempat anda bekerja sekarang?"/>

    <com.github.mikephil.charting.charts.BarChart
        android:id="@+id/barchart_f11"
        android:layout_width="match_parent"
        android:layout_height="300dp"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:text="F11 Deskripsi :"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="1. Instansi pemerintah (termasuk
BUMN)"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="2. Organisasi
non-profit/Lembaga Swadaya Masyarakat"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"

```

```

        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="3. Perusahaan swasta"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="4. Wiraswasta/perusahaan
sendiri"/>

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="5. Other"/>

</LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view14"
    android:layout_width="match_parent"
    android:layout_margin="@dimen/row_padding"
    android:layout_height="match_parent"
    android:padding="15dp"
    app:cardElevation="2dp"
    app:cardCornerRadius="4dp">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:text="F13: Kira-kira berapa
pendapatan anda setiap bulannya?"/>

        <com.github.mikephil.charting.charts.BarChart
            android:id="@+id/barchart_f13"
            android:layout_width="match_parent"

```

```

        android:layout_height="300dp"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="@string/f13_deskripsi"/>

</LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view15"
    android:layout_width="match_parent"
    android:layout_margin="@dimen/row_padding"
    android:layout_height="match_parent"
    android:padding="15dp"
    app:cardElevation="2dp"
    app:cardCornerRadius="4dp">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:text="F14: Seberapa erat hubungan
antara bidang studi dengan pekerjaan anda?"/>

            <com.github.mikephil.charting.charts.BarChart
                android:id="@+id/barchart_f14"
                android:layout_width="match_parent"
                android:layout_height="300dp"/>

        </LinearLayout>
    </androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view16"
    android:layout_width="match_parent"
    android:layout_margin="@dimen/row_padding"
    android:layout_height="match_parent"
    android:padding="15dp"

```

```
app:cardElevation="2dp"
app:cardCornerRadius="4dp">
```

```
<LinearLayout
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp"
        android:textColor="@color/colorPrimary"
        android:text="F15: Tingkat pendidikan apa
yang paling tepat/sesuai untuk pekerjaan anda saat ini?"/>
    <com.github.mikephil.charting.charts.BarChart
        android:id="@+id/barchart_f15"
        android:layout_width="match_parent"
        android:layout_height="300dp"/>
```

```
</LinearLayout>
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
    android:id="@+id/card_view17"
    android:layout_width="match_parent"
    android:layout_margin="@dimen/row_padding"
    android:layout_height="match_parent"
    android:padding="15dp"
    app:cardElevation="2dp"
    app:cardCornerRadius="4dp">
```

```
<LinearLayout
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp"
        android:textColor="@color/colorPrimary"
        android:text="F16: Jika menurut anda
pekerjaan anda saat ini tidak sesuai dengan pendidikan anda, mengapa anda
mengambilnya? Jawaban bisa lebih dari satu"/>
    <com.github.mikephil.charting.charts.BarChart
        android:id="@+id/barchart_f16"
        android:layout_width="match_parent"
        android:layout_height="300dp"/>
```

```
<TextView
```

```

        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginLeft="5dp"
        android:layout_marginRight="5dp"
        android:textColor="@color/black"
        android:textSize="12dp"
        android:text="@string/f16_deskripsi"/>
    </LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view18"
    android:layout_width="match_parent"
    android:layout_margin="@dimen/row_padding"
    android:layout_height="match_parent"
    android:padding="15dp"
    app:cardElevation="2dp"
    app:cardCornerRadius="4dp">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:text="F17-1: Pada saat lulus, pada
tingkat mana kompetensi di bawah ini anda kuasai? (A)"/>

            <com.github.mikephil.charting.charts.BarChart
                android:id="@+id/barchart_f17_1"
                android:layout_width="match_parent"
                android:layout_height="300dp"/>
            <TextView
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:layout_marginLeft="5dp"
                android:layout_marginRight="5dp"
                android:textColor="@color/black"
                android:textSize="12dp"
                android:text="@string/f171_deskripsi"/>
        </LinearLayout>
    </androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view19"

```



```

        android:layout_width="match_parent"
        android:layout_margin="@dimen/row_padding"
        android:layout_height="match_parent"
        android:padding="15dp"
        app:cardElevation="2dp"
        app:cardCornerRadius="4dp">

        <LinearLayout
            android:orientation="vertical"
            android:layout_width="match_parent"
            android:layout_height="match_parent">
            <TextView
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:layout_margin="5dp"
                android:textColor="@color/colorPrimary"
                android:text="F17-2: Pada saat ini, pada
tingkat mana kompetensi di bawah ini diperlukan dalam pekerjaan? (B)"/>

                <com.github.mikephil.charting.charts.BarChart
                    android:id="@+id/barchart_f17_2"
                    android:layout_width="match_parent"
                    android:layout_height="300dp"/>
                <TextView
                    android:layout_width="match_parent"
                    android:layout_height="match_parent"
                    android:layout_marginLeft="5dp"
                    android:layout_marginRight="5dp"
                    android:textColor="@color/black"
                    android:textSize="12dp"
                    android:text="@string/f172_deskripsi"/>
            </LinearLayout>
        </androidx.cardview.widget.CardView>

    </LinearLayout>
</ScrollView>
</FrameLayout>

```

#### 12.43 fragment\_dashboard\_alumni.xml

```

<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:focusable="true"
    android:focusableInTouchMode="true"
    android:id="@+id/alumni"
    android:layout_marginTop="120dp">

```

```

<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/recycler_view"
    android:layout_width="match_parent"
    android:layout_height="match_parent"/>

<ProgressBar
    android:id="@+id/pbLoading"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_centerInParent="true"
    android:layout_gravity="center"
    style="@style/AppTheme"/>

</FrameLayout>

```

#### 12.44 fragment info.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#FFFFFF"
    android:layout_marginBottom="60dp">
    <com.google.android.material.appbar.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <com.google.android.material.tabs.TabLayout
            android:id="@+id/tabs"
            app:tabTextColor="#FFFFFF"
            app:tabSelectedTextColor="#FFFFFF"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            android:background="@color/blue"
            app:tabIndicatorColor="@color/white"
            app:tabMode="scrollable"
            app:tabGravity="fill"/>
        </com.google.android.material.appbar.AppBarLayout>
    <androidx.viewpager.widget.ViewPager
        android:id="@+id/viewpager"
        android:layout_width="match_parent"
        android:layout_height="match_parent"

        app:layout_behavior="@string/appbar_scrolling_view_behavior"/>
    </androidx.coordinatorlayout.widget.CoordinatorLayout>

```

#### 12.45 fragment\_info\_flp.xml

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:focusable="true"
    android:focusableInTouchMode="true">
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <EditText
            android:id="@+id/textsearch"
            android:layout_width="match_parent"
            android:layout_height="40dp"
            android:layout_marginTop="10dp"
            android:layout_marginLeft="10dp"
            android:layout_marginRight="10dp"
            android:inputType="text"
            android:ems="10"
            android:hint=" Cari..."
            android:background="@drawable/login_edittext"

            android:drawableLeft="@drawable/ic_search_grey_24dp"/>

        <TextView
            android:text="Total 0"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:gravity="center"
            android:id="@+id/texttotal"
            android:layout_below="@+id/textsearch"/>

        <androidx.recyclerview.widget.RecyclerView
            android:id="@+id/recycler_view"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_below="@+id/texttotal"/>

    </RelativeLayout>

    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|right"
        android:layout_margin="25dp"
```



```

        android:layout_alignParentTop="true"

android:layout_marginRight="@dimen/row_padding"/>

<TextView
    android:id="@+id/textnama"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_toLeftOf="@id/imageedit"
    android:layout_toRightOf="@id/thumbnail"
    android:fontFamily="sans-serif-medium"
    android:textSize="@dimen/contact_number"
    android:textColor="@android:color/black"
    android:text="DENI HIDAYAT"/>

<ImageView
    android:id="@+id/imageedit"
    android:layout_width="25dp"
    android:layout_height="25dp"
    android:layout_alignParentRight="true"
    android:scaleType="fitXY"
    android:layout_centerVertical="true"
    android:layout_centerHorizontal="true"
    android:layout_margin="@dimen/dp_4"

android:src="@drawable/ic_more_horiz_black_24dp"/>

<TextView
    android:id="@+id/texttanggal"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:fontFamily="sans-serif-medium"
    android:layout_below="@+id/textnama"
    android:layout_toLeftOf="@id/imageedit"
    android:layout_toRightOf="@id/thumbnail"
    android:textSize="10dp"
    android:textColor="@android:color/black"
    android:text="29-01-2019 01:01:01"/>
</RelativeLayout>

<ImageView
    android:id="@+id/imageView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:scaleType="fitXY"/>

<TextView
    android:text="TextView"

```

```
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="@dimen/dp_16"
        android:textColor="@color/black"
        android:id="@+id/textJudul"/>
```

```
<TextView
```

```
    android:text="TextView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="@dimen/dp_12"
    android:textColor="@color/black"
    android:id="@+id/textDeskripsi"/>
```

```
<RelativeLayout
```

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

```
    <ImageView
```

```
        android:id="@+id/imagelike"
        android:layout_width="20dp"
        android:layout_height="20dp"
        android:layout_alignParentLeft="true"
        android:scaleType="fitXY"
        android:layout_margin="@dimen/dp_4"
```

```
        android:src="@drawable/ic_thumb_up_black_24dp"/>
```

```
    <TextView
```

```
        android:text="0 Suka"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_toRightOf="@+id/imagelike"
        android:layout_margin="5dp"
        android:textColor="@color/black"
        android:id="@+id/textLike"/>
```

```
    <ImageView
```

```
        android:id="@+id/imagecomment"
        android:layout_width="20dp"
        android:layout_height="20dp"
        android:scaleType="fitXY"
        android:layout_margin="@dimen/dp_4"
        android:layout_toRightOf="@+id/textLike"
```

```
        android:src="@drawable/ic_comment_gray_24dp"/>
```

```
<TextView
```

```

        android:text="0 Komentar"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_toRightOf="@+id/imagecomment"
        android:layout_margin="5dp"
        android:textColor="@color/black"
        android:id="@+id/textKomentar"/>

<TextView
    android:text="Lihat 0 Menyukai ini"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/imagelike"
    android:layout_marginBottom="5dp"
    android:textColor="@color/black"
    android:id="@+id/textLainnya"/>

</RelativeLayout>

</LinearLayout>
</androidx.cardview.widget.CardView>
</RelativeLayout>

```

#### 12.47 fragment\_info\_flp\_adapter\_komentar.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="?attr/selectableItemBackground"
    android:clickable="true"
    android:paddingBottom="@dimen/row_padding"
    android:paddingLeft="@dimen/activity_margin"
    android:paddingRight="@dimen/activity_margin"
    android:paddingTop="@dimen/row_padding">

    <TextView
        android:id="@+id/tvtanggal"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:fontFamily="sans-serif-medium"
        android:layout_alignParentRight="true"
        android:textSize="10dp"
        android:textColor="@android:color/black"
        android:gravity="right"
        android:text="29-01-2019 01:01:01"/>

    <ImageView
        android:id="@+id/thumbnail"

```

```

        android:layout_width="@dimen/thumbnail"
        android:layout_height="@dimen/thumbnail"
        android:layout_below="@+id/tvtanggal"
        android:layout_marginRight="@dimen/row_padding"/>

        <TextView
            android:id="@+id/tvnama"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_toRightOf="@id/thumbnail"
            android:layout_below="@+id/tvtanggal"
            android:fontFamily="sans-serif-medium"
            android:textColor="@color/blue"
            android:textStyle="bold"
            android:text="DENI HIDAYAT"/>

        <com.vanniktech.emoji.EmojiTextView
            android:id="@+id/tvkomentar"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:fontFamily="sans-serif-medium"
            android:layout_below="@+id/tvnama"
            android:layout_toRightOf="@id/thumbnail"
            android:textColor="@android:color/black"
            android:text="Komentar..."/>

    </RelativeLayout>

```

#### 12.48 fragment\_info\_list\_alumni.xml

```

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

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <androidx.recyclerview.widget.RecyclerView
            android:id="@+id/recycler_view"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_below="@+id/textsearch"/>

    </RelativeLayout>

    <ProgressBar

```



```
        android:id="@+id/pbLoading"
        android:layout_width="100dp"
        android:layout_height="100dp"
        android:layout_centerInParent="true"
        android:layout_gravity="center"
        style="@style/AppTheme"/>
```

```
</FrameLayout>
```

#### 12.49 fragment\_info\_list\_alumni\_adapter.xml

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<RelativeLayout
```

```
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp"
    android:background="?attr/selectableItemBackground">
```

```
    <TextView
```

```
        android:text="ANGKATAN TAHUN : 2019"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="5dp"
        android:textSize="16dp"
        android:textColor="@color/black"
        android:layout_toLeftOf="@+id/imageView"
        android:id="@+id/textAngkatan"/>
```

```
    <TextView
```

```
        android:text="100 Orang"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textColor="@color/black"
        android:layout_below="@+id/textAngkatan"
        android:layout_toLeftOf="@+id/imageView"
        android:id="@+id/textJumlah"/>
```

```
    <ImageView
```

```
        android:layout_width="32dp"
        android:layout_height="32dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:layout_alignParentRight="true"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:src="@drawable/ic_folder_shared_grey_24dp"
        android:id="@+id/imageView"/>
```

```
</RelativeLayout>
```

#### 12.50 fragment\_lokasi.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginBottom="60dp">

    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/appBarLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

        android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
            android:background="@color/colorPrimary"/>
    </com.google.android.material.appbar.AppBarLayout>

    <com.google.android.gms.maps.MapView
        android:id="@+id/mapView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="60dp"/>
</androidx.coordinatorlayout.widget.CoordinatorLayout>
```

#### 12.51 fragment\_pengelolaan\_user.xml

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

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <EditText
            android:id="@+id/textsearch"
            android:layout_width="match_parent"
            android:layout_height="40dp"
            android:layout_marginTop="10dp"
```

```
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:ems="10"
        android:hint=" Cari..."
        android:background="@drawable/login_edittext"
        android:drawableLeft="@drawable/ic_search_grey_24dp"/>
```

```
<TextView
    android:text="Total 0"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:id="@+id/texttotal"
    android:layout_below="@+id/textsearch"/>
```

```
<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/recycler_view"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_below="@+id/texttotal"/>
```

```
</RelativeLayout>
```

```
<com.google.android.material.floatingactionbutton.FloatingActionButton
    android:id="@+id/fab"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="bottom|right"
    android:layout_margin="25dp"
    android:clickable="true"
    android:layout_above="@id/nav_view"
    android:src="@drawable/ic_add_white_24dp"
    app:backgroundTint="@color/blue"
    app:fabSize="mini"
    app:elevation="12dp"
    app:borderWidth="0dp"/>
```

```
<ProgressBar
    android:id="@+id/pbLoading"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerInParent="true"
    android:layout_gravity="center"
    style="@style/AppTheme"
    android:visibility="gone"/>
```

```
</FrameLayout>
```

## 12.52 fragment\_pengelolaan\_users\_adapter.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:background="?attr/selectableItemBackground">
    <androidx.cardview.widget.CardView
        android:id="@+id/card_view2"
        android:layout_width="match_parent"
        android:layout_margin="@dimen/row_padding"
        android:layout_height="wrap_content"
        android:padding="15dp"
        card_view:cardElevation="2dp"
        card_view:cardCornerRadius="4dp">

        <RelativeLayout
            android:layout_margin="10dp"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">

            <ImageView
                android:id="@+id/imageedit"
                android:layout_width="25dp"
                android:layout_height="25dp"
                android:layout_alignParentRight="true"
                android:scaleType="fitXY"
                android:layout_alignParentTop="true"
                android:layout_margin="@dimen/dp_4"
                android:src="@drawable/ic_more_horiz_black_24dp"/>

            <ImageView
                android:id="@+id/imageView"
                android:layout_width="40dp"
                android:layout_height="40dp"
                android:layout_alignLeft="@+id/textAkses"
                android:layout_alignRight="@+id/textAkses"
                android:layout_centerVertical="true"
                android:layout_alignParentTop="true"
                android:layout_marginTop="6dp"/>

            <TextView
                android:text="[Nim] Nama"
                android:layout_width="90dp"
                android:layout_height="wrap_content"
                android:textColor="@color/black"
                android:layout_alignParentTop="true"
                android:layout_toRightOf="@+id/imageView"
```

```
android:id="@+id/labelNama"  
android:layout_marginLeft="5dp"/>
```

```
<TextView
```

```
    android:text="Nim Nama"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:textColor="@color/black"  
    android:layout_alignParentTop="true"  
    android:layout_toRightOf="@+id/labelNama"  
    android:layout_toLeftOf="@+id/imageedit"  
    android:id="@+id/textNama"/>
```

```
<TextView
```

```
    android:text="Email"  
    android:layout_width="90dp"  
    android:layout_height="wrap_content"  
    android:textColor="@color/black"  
    android:layout_below="@+id/textNama"  
    android:layout_toRightOf="@+id/imageView"  
    android:id="@+id/labelEmail"  
    android:layout_marginLeft="5dp"/>
```

```
<TextView
```

```
    android:text="email"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:textColor="@color/black"  
    android:layout_below="@+id/textNama"  
    android:layout_toRightOf="@+id/labelEmail"  
    android:layout_toLeftOf="@+id/imageedit"  
    android:id="@+id/textEmail"/>
```

```
<TextView
```

```
    android:text="Register"  
    android:layout_width="90dp"  
    android:layout_height="wrap_content"  
    android:textColor="@color/black"  
    android:layout_below="@+id/textEmail"  
    android:layout_toRightOf="@+id/imageView"  
    android:id="@+id/labelRegistrasi"  
    android:layout_marginLeft="5dp"/>
```

```
<TextView
```

```
    android:text="Register"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:textColor="@color/black"  
    android:layout_below="@+id/textEmail"  
    android:layout_toRightOf="@+id/labelRegistrasi"
```

```

        android:layout_toLeftOf="@+id/imageedit"
        android:id="@+id/textRegister"/>

<TextView
    android:text="Last Seen"
    android:layout_width="90dp"
    android:layout_height="wrap_content"
    android:textColor="@color/black"
    android:layout_below="@+id/textRegister"
    android:layout_toRightOf="@+id/imageView"
    android:id="@+id/labelLastseen"
    android:layout_marginLeft="5dp"/>

<TextView
    android:text="last seen"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textColor="@color/black"
    android:layout_below="@+id/textRegister"
    android:layout_toRightOf="@+id/labelLastseen"
    android:layout_toLeftOf="@+id/imageedit"
    android:id="@+id/textLastseen"/>

<TextView
    android:text="Admin"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:background="@drawable/shapellogin"
    android:textColor="@color/white"
    android:textSize="10dp"
    android:layout_below="@+id/imageView"
    android:id="@+id/textAkses"
    android:layout_marginTop="5dp"/>
</RelativeLayout>
</androidx.cardview.widget.CardView>
</RelativeLayout>

```

### 12.53 fragment pengelolaan\_users\_register\_adapter.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <androidx.cardview.widget.CardView
        android:id="@+id/card_view2"
        android:layout_width="match_parent"
        android:layout_margin="@dimen/row_padding"
        android:layout_height="wrap_content"
        android:padding="15dp"
    >

```

```
card_view:cardElevation="2dp"
card_view:cardCornerRadius="4dp">
```

```
<RelativeLayout
    android:layout_margin="10dp"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <TextView
        android:id="@+id/textTanggal"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:fontFamily="sans-serif-medium"
        android:gravity="right"
        android:textColor="@android:color/black"
        android:text="29-01-2019 01:01:01"/>
    <TextView
        android:text="NIM"
        android:layout_width="60dp"
        android:layout_height="wrap_content"
        android:textColor="@color/black"
        android:layout_below="@+id/textTanggal"
        android:id="@+id/labelNim"/>
    <TextView
        android:text="C1A150029"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textColor="@color/black"
        android:layout_toRightOf="@+id/labelNim"
        android:layout_alignTop="@+id/labelNim"
        android:id="@+id/textNim"/>
    <TextView
        android:text="NAMA"
        android:layout_width="60dp"
        android:layout_height="wrap_content"
        android:textColor="@color/black"
        android:layout_below="@+id/labelNim"
        android:id="@+id/labelNama"/>
    <TextView
        android:text="DENI HIDAYAT"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textColor="@color/black"
        android:layout_toRightOf="@+id/labelNama"
        android:layout_alignTop="@+id/labelNama"
        android:id="@+id/textNama"/>
    <TextView
        android:text="EMAIL"
        android:layout_width="60dp"
```

```

        android:layout_height="wrap_content"
        android:textColor="@color/black"
        android:layout_below="@+id/labelNama"
        android:id="@+id/labelEmail"/>
    <TextView
        android:text="denihida1216@gmail.com"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textColor="@color/black"
        android:layout_toRightOf="@+id/labelEmail"
        android:layout_alignTop="@+id/labelEmail"
        android:id="@+id/textEmail"/>

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/labelEmail">

        <TextView
            android:text="Validasi"
            android:layout_width="70dp"
            android:layout_height="wrap_content"
            android:layout_marginTop="10dp"
            android:layout_marginLeft="5dp"
            android:layout_marginRight="20dp"
            android:layout_marginBottom="5dp"
            android:textColor="@color/white"
            android:textStyle="bold"
            android:gravity="center"
            android:background="@color/green"
            android:id="@+id/textValidasi"/>

        <TextView
            android:text="Tolak"
            android:layout_width="70dp"
            android:layout_height="wrap_content"
            android:layout_toRightOf="@+id/textValidasi"
            android:layout_alignTop="@+id/textValidasi"
            android:textColor="@color/white"
            android:textStyle="bold"
            android:gravity="center"
            android:background="@color/red"
            android:id="@+id/textTolak"/>

    </RelativeLayout>

</RelativeLayout>
</androidx.cardview.widget.CardView>
</RelativeLayout>

```



## 12.54 fragment\_profil.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginBottom="60dp"
    android:id="@+id/root_layout"
    android:focusable="true"
    android:focusableInTouchMode="true">

    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/appBarLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

        android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
            android:background="@color/colorPrimary"/>
    </com.google.android.material.appbar.AppBarLayout>

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="60dp"
        android:id="@+id/scrollView">

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

            <androidx.cardview.widget.CardView
                android:id="@+id/card_view1"
                android:layout_width="match_parent"
                android:layout_height="wrap_content">

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

```

<TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:text="Kontak Saya"
    android:textSize="16sp"
    android:layout_margin="5dp"
    android:textColor="@color/colorPrimary"
    android:textStyle="bold"/>

<androidx.coordinatorlayout.widget.CoordinatorLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="10dp">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="150dp"
        android:layout_height="150dp"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_gravity="center"
        android:scaleType="fitXY"/>

    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|right"
        android:layout_margin="5dp"
        android:clickable="true"

        android:src="@drawable/ic_camera_alt_white_24dp"
        app:backgroundTint="@color/blue"
        app:fabSize="mini"
        app:elevation="5dp"
        app:borderWidth="0dp"
        app:layout_anchorGravity="end|bottom"
        app:layout_anchor="@+id/imageView"/>

</androidx.coordinatorlayout.widget.CoordinatorLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp"
        android:id="@+id/textNimLayout">

```

```
<com.google.android.material.textfield.TextInputEditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Nim"
    android:id="@+id/textNim"/>
```

```
</com.google.android.material.textfield.TextInputLayout>
```

```
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp"
        android:id="@+id/textNamaLayout">
```

```
<com.google.android.material.textfield.TextInputEditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Nama Lengkap"
    android:id="@+id/textNama"/>
```

```
</com.google.android.material.textfield.TextInputLayout>
```

```
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp"
        android:id="@+id/textProdiLayout">
```

```
<com.google.android.material.textfield.TextInputEditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Program Studi"
    android:id="@+id/textProdi"/>
```

```
</com.google.android.material.textfield.TextInputLayout>
```

```
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp"
        android:id="@+id/textAngkatanLayout">
```

```
<com.google.android.material.textfield.TextInputEditText
```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Angkatan"
        android:id="@+id/textAngkatan"/>

</com.google.android.material.textfield.TextInputLayout>
        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="5dp"
            android:id="@+id/textNohpLayout">

<com.google.android.material.textfield.TextInputEditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="No HP"
            android:id="@+id/textNohp"/>

</com.google.android.material.textfield.TextInputLayout>
        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="5dp"
            android:id="@+id/textEmailLayout">

<com.google.android.material.textfield.TextInputEditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Email"
            android:id="@+id/textEmail"/>

</com.google.android.material.textfield.TextInputLayout>
        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="5dp"
            android:id="@+id/textAlamatLayout">

<com.google.android.material.textfield.TextInputEditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Alamat"
            android:id="@+id/textAlamat"/>

</com.google.android.material.textfield.TextInputLayout>

```

```

        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_margin="5dp"
            android:id="@+id/textLokasiLayout">

    <com.google.android.material.textfield.TextInputEditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Lokasi"
        android:id="@+id/textLokasi"/>

</com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp"
        android:id="@+id/textNamainstansiLayout">

    <com.google.android.material.textfield.TextInputEditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Nama Instansi (*Bagi yang
sudah bekerja)"
        android:id="@+id/textNamainstansi"/>

</com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp"
        android:id="@+id/textAlamatinstansiLayout">

    <com.google.android.material.textfield.TextInputEditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Alamat Instansi (*Bagi
yang sudah bekerja)"
        android:id="@+id/textAlamatinstansi"/>

</com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp"

```

```

        android:id="@+id/textNotlpinstansiLayout">

<com.google.android.material.textfield.TextInputEditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="No Tlp Instansi (*Bagi
yang sudah bekerja)"

    android:id="@+id/textNotlpinstansi"/>

</com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_margin="5dp"
        android:id="@+id/textJabatanLayout">

<com.google.android.material.textfield.TextInputEditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Jabatan (*Bagi yang sudah
bekerja)"

    android:id="@+id/textJabatan"/>

</com.google.android.material.textfield.TextInputLayout>
</LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/card_view2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:text="Lainnya"
            android:textSize="16sp"
            android:layout_margin="5dp"
            android:textColor="@color/colorPrimary"
            android:textStyle="bold"/>
        <RelativeLayout
            android:layout_width="match_parent"

```

```

        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:clickable="true"
        android:layout_margin="5dp"

android:background="?attr/selectableItemBackground"
        android:id="@+id/r11">
    <ImageView
        android:id="@+id/imageView1"
        android:layout_width="24dp"
        android:layout_height="24dp"
        android:layout_centerVertical="true"
        android:layout_alignParentLeft="true"

android:src="@drawable/ic_edit_grey_24dp"
        android:layout_marginLeft="5dp"/>

    <TextView
        android:text="Update Data"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:textColor="@color/black"
        android:textSize="16dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"

android:layout_toRightOf="@id/imageView1"

android:layout_toEndOf="@id/imageView1"/>
    <ImageView
        android:layout_width="32dp"
        android:layout_height="32dp"
        android:layout_centerVertical="true"
        android:layout_alignParentRight="true"

android:src="@drawable/ic_keyboard_arrow_right_grey_24dp"
        android:layout_marginLeft="5dp"/>

</RelativeLayout>
<View
        android:layout_width="match_parent"
        android:layout_height="0.5dp"
        android:background="@color/gray"/>
<RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

```

```

        android:orientation="vertical"
        android:clickable="true"
        android:layout_margin="5dp"

android:background="?attr/selectableItemBackground"
        android:id="@+id/rl2">
    <ImageView
        android:id="@+id/imageView2"
        android:layout_width="24dp"
        android:layout_height="24dp"
        android:layout_centerVertical="true"
        android:layout_alignParentLeft="true"
        android:src="@drawable/lokasi"
        android:layout_marginLeft="5dp"/>

    <TextView
        android:text="Update Lokasi"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:textColor="@color/black"
        android:textSize="16dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:layout_marginBottom="5dp"

android:layout_toRightOf="@id/imageView2"

android:layout_toEndOf="@id/imageView2"/>
    <ImageView
        android:layout_width="32dp"
        android:layout_height="32dp"
        android:layout_centerVertical="true"
        android:layout_alignParentRight="true"

android:src="@drawable/ic_keyboard_arrow_right_grey_24dp"
        android:layout_marginLeft="5dp"/>

</RelativeLayout>
<View
        android:layout_width="match_parent"
        android:layout_height="0.5dp"
        android:background="@color/gray"/>
<RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"

```



```

        android:clickable="true"
        android:layout_margin="5dp"

        android:background="?attr/selectableItemBackground"
        android:id="@+id/rl3">
        <ImageView
            android:id="@+id/imageView3"
            android:layout_width="24dp"
            android:layout_height="24dp"
            android:layout_centerVertical="true"
            android:layout_alignParentLeft="true"

            android:src="@drawable/ic_help_grey_24dp"
            android:layout_marginLeft="5dp"/>

        <TextView
            android:text="About"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_centerHorizontal="true"
            android:layout_centerVertical="true"
            android:textColor="@color/black"
            android:textSize="16dp"
            android:layout_marginLeft="10dp"
            android:layout_marginRight="10dp"
            android:layout_marginBottom="5dp"

            android:layout_toRightOf="@id/imageView3"

            android:layout_toEndOf="@id/imageView3"/>
        <ImageView
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:layout_centerVertical="true"
            android:layout_alignParentRight="true"

            android:src="@drawable/ic_keyboard_arrow_right_grey_24dp"
            android:layout_marginLeft="5dp"/>

    </RelativeLayout>
    <View
        android:layout_width="match_parent"
        android:layout_height="0.5dp"
        android:background="@color/gray"/>
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"

```

```

        android:clickable="true"
        android:layout_margin="5dp"

        android:background="?attr/selectableItemBackground"
        android:id="@+id/rl4">
        <ImageView
            android:id="@+id/imageView4"
            android:layout_width="24dp"
            android:layout_height="24dp"
            android:layout_centerVertical="true"
            android:layout_alignParentLeft="true"

            android:src="@drawable/ic_star_grey_24dp"
            android:layout_marginLeft="5dp"/>

        <TextView
            android:text="Rate this app"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_centerHorizontal="true"
            android:layout_centerVertical="true"
            android:textColor="@color/black"
            android:textSize="16dp"
            android:layout_marginLeft="10dp"
            android:layout_marginRight="10dp"
            android:layout_marginBottom="5dp"

            android:layout_toRightOf="@id/imageView4"

            android:layout_toEndOf="@id/imageView4"/>
        <ImageView
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:layout_centerVertical="true"
            android:layout_alignParentRight="true"

            android:src="@drawable/ic_keyboard_arrow_right_grey_24dp"
            android:layout_marginLeft="5dp"/>

    </RelativeLayout>
    <View
        android:layout_width="match_parent"
        android:layout_height="0.5dp"
        android:background="@color/gray"/>
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"

```

```

        android:clickable="true"
        android:layout_margin="5dp"

        android:background="?attr/selectableItemBackground"
        android:id="@+id/r15">
        <ImageView
            android:id="@+id/imageView5"
            android:layout_width="24dp"
            android:layout_height="24dp"
            android:layout_centerVertical="true"
            android:layout_alignParentLeft="true"

            android:src="@drawable/ic_vpn_key_grey_24dp"
            android:layout_marginLeft="5dp"/>

        <TextView
            android:text="Ubah Password"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_centerHorizontal="true"
            android:layout_centerVertical="true"
            android:textColor="@color/black"
            android:textSize="16dp"
            android:layout_marginLeft="10dp"
            android:layout_marginRight="10dp"
            android:layout_marginBottom="5dp"

            android:layout_toRightOf="@id/imageView5"

            android:layout_toEndOf="@id/imageView5"/>
        <ImageView
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:layout_centerVertical="true"
            android:layout_alignParentRight="true"

            android:src="@drawable/ic_keyboard_arrow_right_grey_24dp"
            android:layout_marginLeft="5dp"/>
    </RelativeLayout>
    <View
        android:layout_width="match_parent"
        android:layout_height="0.5dp"
        android:background="@color/gray"/>
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:clickable="true"

```

```

        android:layout_margin="5dp"

        android:background="?attr/selectableItemBackground"
        android:id="@+id/rl6">
        <ImageView
            android:id="@+id/imageView6"
            android:layout_width="24dp"
            android:layout_height="24dp"
            android:layout_centerVertical="true"
            android:layout_alignParentLeft="true"

            android:src="@drawable/ic_exit_to_app_grey_24dp"
            android:layout_marginLeft="5dp"/>

        <TextView
            android:text="Logout"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_centerHorizontal="true"
            android:layout_centerVertical="true"
            android:textColor="@color/black"
            android:textSize="16dp"
            android:layout_marginLeft="10dp"
            android:layout_marginRight="10dp"
            android:layout_marginBottom="5dp"

            android:layout_toRightOf="@id/imageView6"

            android:layout_toEndOf="@id/imageView6"/>
        <ImageView
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:layout_centerVertical="true"
            android:layout_alignParentRight="true"

            android:src="@drawable/ic_keyboard_arrow_right_grey_24dp"
            android:layout_marginLeft="5dp"/>

        </RelativeLayout>
        <View
            android:layout_width="match_parent"
            android:layout_height="0.5dp"
            android:background="@color/gray"/>
        </LinearLayout>
    </androidx.cardview.widget.CardView>
</LinearLayout>
</ScrollView>
<ProgressBar

```

```
        android:id="@+id/pbLoading"
        android:layout_width="100dp"
        android:layout_height="100dp"
        android:layout_centerInParent="true"
        android:layout_gravity="center"
        style="@style/AppTheme"/>
    </androidx.coordinatorlayout.widget.CoordinatorLayout>
```

#### 12.55 fragment\_profil\_item.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">
    <ImageView
        android:id="@+id/imageView"
        android:layout_width="32dp"
        android:layout_height="32dp"
        android:layout_centerVertical="true"
        android:layout_alignParentLeft="true"
        android:layout_marginLeft="5dp"/>

    <TextView
        android:text="Menu"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="12dp"
        android:layout_marginTop="5dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:layout_toRightOf="@id/imageView"
        android:layout_toEndOf="@id/imageView"
        android:id="@+id/labelMenu"/>

    <TextView
        android:text="Sub menu"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textColor="@color/black"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:layout_marginBottom="5dp"
        android:layout_below="@id/labelMenu"
        android:layout_toRightOf="@id/imageView"
        android:layout_toEndOf="@id/imageView"
        android:id="@+id/labelSubmenu"/>
```

```
</RelativeLayout>
```

#### 12.56 fragment\_restore.xml

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:focusable="true"
    android:focusableInTouchMode="true">

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="10dp">
        <LinearLayout android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">

            <TextView
                android:text="Pilih Restore data"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="5dp"
                android:id="@+id/textView1"/>

            <TextView
                android:text="File Path : "
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="5dp"
                android:id="@+id/textView2"/>

            <Button
                android:text="Load file"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:textColor="@color/white"
                android:textStyle="bold"
                android:layout_margin="10dp"
                android:clickable="true"
                android:background="@drawable/shaprectangle"
                android:id="@+id/button1"/>

            <TextView
                android:text="Pilih Restore Ke "
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="5dp"
```

```

        android:id="@+id/textView3"/>

        <com.toptoeche.searchablespinnerlibrary.SearchableSpinner
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="5dp"
            android:entries="@array/restore_array"
            android:id="@+id/spinner_restore"/>

        <Button
            android:text="Restore data"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textColor="@color/white"
            android:textStyle="bold"
            android:layout_margin="10dp"
            android:clickable="true"
            android:background="@drawable/shaperectangle"
            android:id="@+id/button2"/>

    </LinearLayout>
</ScrollView>

<ProgressBar
    android:id="@+id/pbLoading"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_centerInParent="true"
    android:layout_gravity="center"
    style="@style/AppTheme"/>

</FrameLayout>

```

#### 12.57 toolbar\_custom.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

    android:background="?attr/selectableItemBackgroundBorderless"
        android:layout_width="fill_parent"
        android:layout_height="?actionBarSize">

    <!-- android:background="?attr/selectableItemBackgroundBorderless" will
    cause this Custom View to make ripple effect -->

    <LinearLayout
        android:id="@+id/toolbar_image"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"

```

```

        android:layout_centerVertical="true"

        android:contentDescription="@string/abc_action_bar_up_description"
        android:orientation="horizontal">

        <ImageView
            android:id="@+id/imageView"
            android:layout_width="35.0dip"
            android:layout_height="35.0dip"
            android:src="@drawable/ic_user"
            android:scaleType="fitCenter" />
    </LinearLayout>

    <LinearLayout
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_centerVertical="true"
        android:layout_toRightOf="@id/toolbar_image"
        android:orientation="vertical"
        android:paddingBottom="2.0dip"
        android:paddingLeft="4.0dip"
        android:paddingRight="0.0dip"
        android:paddingTop="0.0dip" >

        <TextView
            android:id="@+id/action_bar_title_1"
            android:layout_width="wrap_content"
            android:layout_height="0dp"
            android:layout_gravity="center_vertical"
            android:layout_marginLeft="6dp"
            android:layout_weight="0.6"
            android:ellipsize="end"
            android:gravity="center_vertical"
            android:maxLines="1"
            android:textSize="18sp"
            android:text="DENI HIDAYAT"
            android:textColor="@color/white"
            android:textStyle="bold" />

        <TextView
            android:id="@+id/action_bar_title_2"
            android:layout_width="wrap_content"
            android:layout_height="0dp"
            android:layout_marginLeft="6dp"
            android:layout_weight="0.4"
            android:ellipsize="end"
            android:text="last seen 1 hour ago"

```



```
android:maxLines="1"  
android:textColor="@color/white"  
android:textSize="12sp" />
```

```
</LinearLayout>
```

```
</RelativeLayout>
```