**LAPORAN PRAKTIKUM**

**PRAKTIKUM PEMROGRAMAN WEB**

**PERTEMUAN 5**

**RECYCLER VIEW**



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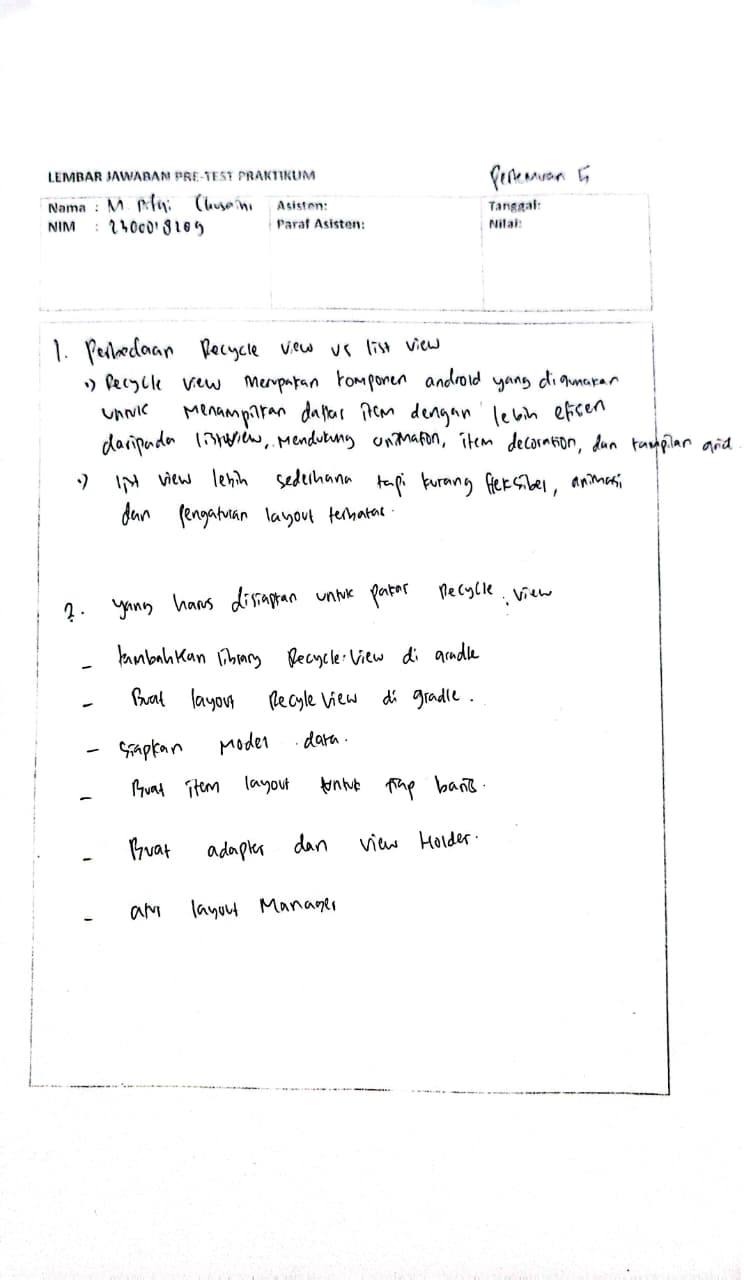
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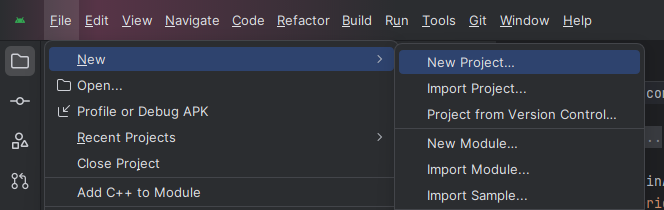
# PRETEST

## Pretest

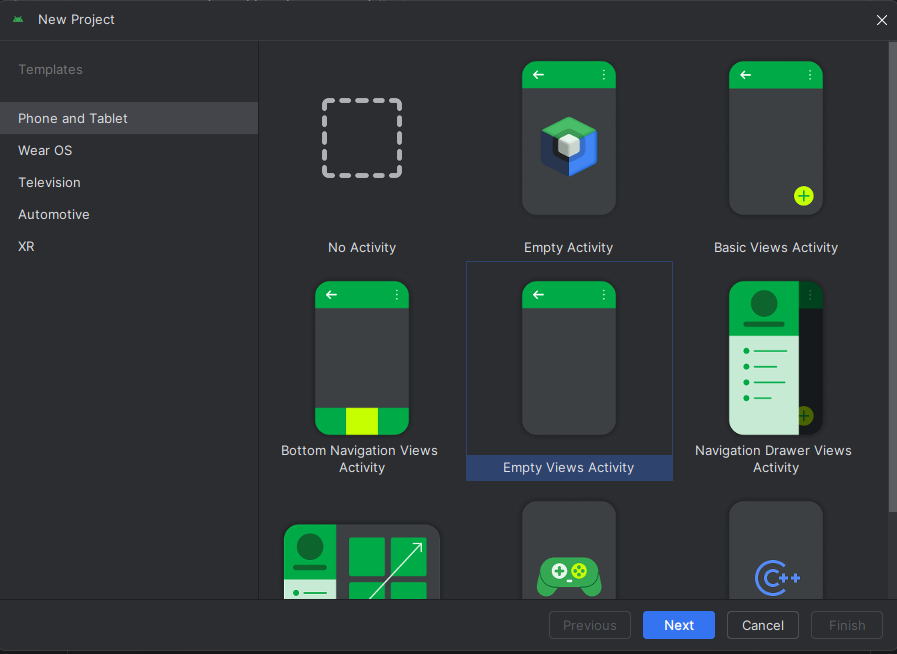


# LANGKAH PRAKTIKUM

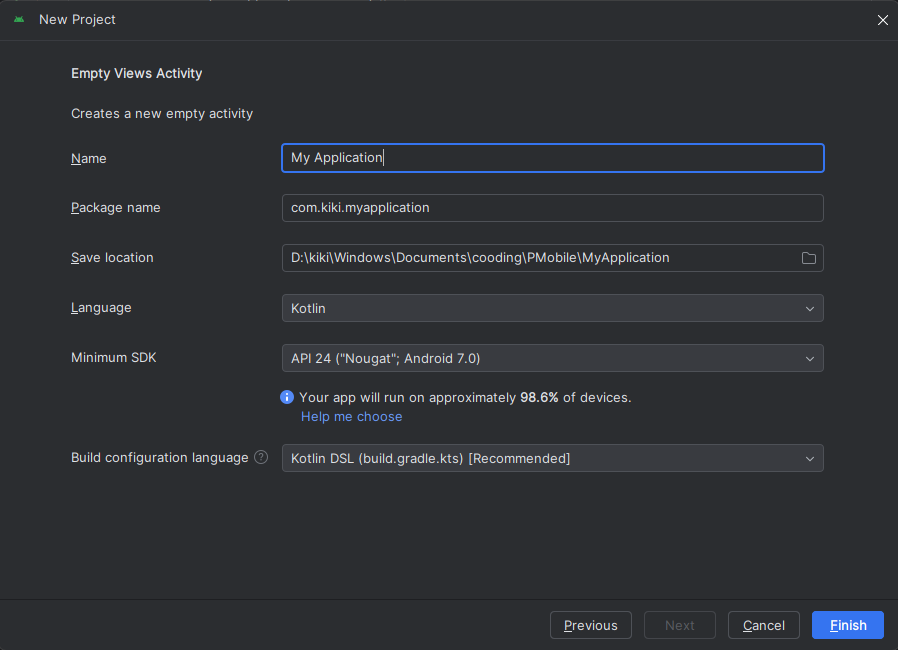
## Buat new project



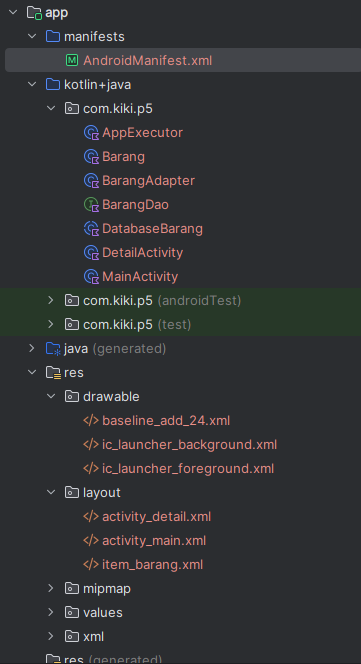
## Pilih Empty view activity



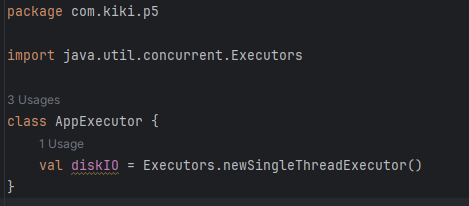
## Masukkan nama file dan lokasinya



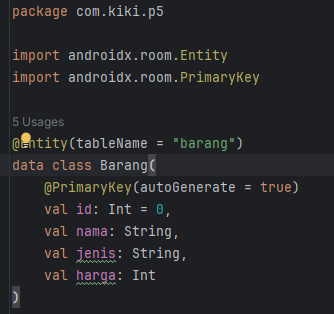
## Buat struktur finalnya seperti ini



## AppExecutor.kt



## Barang.kt



## BarangAdapter.kt

|  |
| --- |
| package com.kiki.p5;  import android.content.Intent import android.view.LayoutInflater import android.view.ViewGroup import androidx.recyclerview.widget.RecyclerView import com.kiki.p5.databinding.ItemBarangBinding   class BarangAdapter(private val barangList: List<Barang>) :  RecyclerView.Adapter<BarangAdapter.BarangViewHolder>() {   override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): BarangViewHolder {  val binding = ItemBarangBinding.inflate(  LayoutInflater.from(parent.*context*),  parent,  false  )  return BarangViewHolder(binding);  }   override fun onBindViewHolder(holder: BarangViewHolder, position: Int) {  val namaBarang = barangList[position]  holder.bind(namaBarang);  }   override fun getItemCount(): Int {  return barangList.size  }   class BarangViewHolder(private val binding: ItemBarangBinding) :  RecyclerView.ViewHolder(binding.*root*) {   fun bind(namaBarang: Barang) {  binding.*apply* **{** tvNama.*text* = namaBarang.nama.toString()  tvJenis.*text* = namaBarang.jenis.toString()   itemView.setOnClickListener **{** val detailIntent = Intent(**it**.*context*, DetailActivity::class.*java*)  detailIntent.putExtra("barang\_id", namaBarang.id)  **it**.*context*.startActivity(detailIntent)  **}  }** }  } } |

## BarangDao

|  |
| --- |
| package com.kiki.p5  import androidx.lifecycle.LiveData import androidx.room.Dao import androidx.room.Insert import androidx.room.Query  @Dao interface BarangDao {   @Insert  fun insert(barang: Barang)   @Query("SELECT \* FROM barang")  fun getAllBarang(): LiveData<List<Barang>>   @Query("SELECT \* FROM barang WHERE id = :id LIMIT 1")  fun getBarangById(id: Int): Barang?  } |

## DatabaseBarang

|  |
| --- |
| package com.kiki.p5  import android.content.Context import androidx.room.Database import androidx.room.Room import androidx.room.RoomDatabase  @Database(entities = [Barang::class], version = 1, exportSchema = false) abstract class DatabaseBarang : RoomDatabase() {   abstract fun barangDao(): BarangDao   companion object {  @Volatile  private var INSTANCE: DatabaseBarang? = null   fun getDatabase(context: Context): DatabaseBarang {  return INSTANCE ?: *synchronized*(this) **{** val instance = Room.databaseBuilder(  context.*applicationContext*,  DatabaseBarang::class.*java*,  "barang\_db"  ).build()  INSTANCE = instance  instance  **}** }  } } |

## DetailActivity

|  |
| --- |
| package com.kiki.p5  import android.os.Bundle import androidx.appcompat.app.AppCompatActivity import com.kiki.p5.databinding.ActivityDetailBinding  class DetailActivity : AppCompatActivity() {   private lateinit var binding: ActivityDetailBinding  private lateinit var db: DatabaseBarang  private lateinit var barangDao: BarangDao   override fun onCreate(savedInstanceState: Bundle?) {  super.onCreate(savedInstanceState)  binding = ActivityDetailBinding.inflate(*layoutInflater*)  setContentView(binding.*root*)   // Init database  db = DatabaseBarang.getDatabase(this)  barangDao = db.barangDao()   // Ambil ID barang dari Intent  val barangId = *intent*.getIntExtra("barang\_id", -1)   if (barangId == -1) {  binding.tvDetailNama.*text* = "Data tidak ditemukan"  return  }   // Ambil detail barang dari database (Room tidak bisa di main thread → gunakan thread)  Thread **{** val barang = barangDao.getBarangById(barangId)   runOnUiThread **{** if (barang != null) {  binding.tvDetailId.*text* = "ID: ${barang.id}"  binding.tvDetailNama.*text* = "Nama: ${barang.nama}"  binding.tvDetailJenis.*text* = "Jenis: ${barang.jenis}"  binding.tvDetailHarga.*text* = "Harga: Rp ${barang.harga}"  } else {  binding.tvDetailNama.*text* = "Barang tidak ditemukan!"  }  **}  }**.start()  } } |

## MainActivity

|  |
| --- |
| package com.kiki.p5 import com.kiki.p5.databinding.ActivityMainBinding import com.kiki.p5.DatabaseBarang import com.kiki.p5.BarangDao import com.kiki.p5.Barang import com.kiki.p5.AppExecutor   import androidx.appcompat.app.AppCompatActivity import android.os.Bundle import androidx.lifecycle.LiveData import androidx.lifecycle.Observer import androidx.recyclerview.widget.LinearLayoutManager import com.kiki.p5.databinding.ItemBarangBinding   class MainActivity : AppCompatActivity() {   private lateinit var binding: ActivityMainBinding  private lateinit var dbBarang: DatabaseBarang  private lateinit var barangDao: BarangDao  private lateinit var appExecutors: AppExecutor   override fun onCreate(savedInstanceState: Bundle?) {  super.onCreate(savedInstanceState)  binding = ActivityMainBinding.inflate(*layoutInflater*)  setContentView(binding.*root*)   appExecutors = AppExecutor()  dbBarang = DatabaseBarang.getDatabase(*applicationContext*)  barangDao = dbBarang.barangDao()   binding.*apply* **{** fabAdd.setOnClickListener **{** appExecutors.diskIO.execute **{** val barangTitles = *listOf*("Meja", "Semen", "Triplek", "Pasir")  val jenisBarang = *listOf*("Perabotan", "Material", "Material", "Material")  val hargaBarang = *listOf*(50000, 48000, 15000, 68000)   for (i in 1..4) {  val newBarang = Barang(  i,  barangTitles[i - 1],  jenisBarang[i - 1],  hargaBarang[i - 1]  )  barangDao.insert(newBarang)  }  **}  }** val barangList: LiveData<List<Barang>> = barangDao.getAllBarang()   barangList.observe(this@MainActivity, Observer **{** list **->** val layoutManager = LinearLayoutManager(this@MainActivity)  rvRoomDb.*layoutManager* = layoutManager   val adapter = BarangAdapter(list)  rvRoomDb.*adapter* = adapter  **}**)  **}** } } |

## Activity\_detail.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"  android:padding="20dp">   <TextView  android:id="@+id/tvDetailId"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="ID:"  android:textSize="18sp"  android:padding="4dp" />   <TextView  android:id="@+id/tvDetailNama"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Nama:"  android:textSize="18sp"  android:padding="4dp" />   <TextView  android:id="@+id/tvDetailJenis"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Jenis:"  android:textSize="18sp"  android:padding="4dp" />   <TextView  android:id="@+id/tvDetailHarga"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Harga:"  android:textSize="18sp"  android:padding="4dp" />  </LinearLayout> |

## Activity\_main.xml

|  |
| --- |
| <?xml version="1.0" encoding="utf-8"?> <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools"  android:id="@+id/activity\_main"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:padding="16dp">   <androidx.recyclerview.widget.RecyclerView  android:id="@+id/rvRoomDb"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content" />   <com.google.android.material.floatingactionbutton.FloatingActionButton  android:id="@+id/fabAdd"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_alignParentBottom="true"  android:layout\_alignParentEnd="true"  android:layout\_marginEnd="16dp"  android:layout\_marginBottom="16dp"  android:src="@drawable/baseline\_add\_24"  app:fabSize="normal" />  </RelativeLayout> |

## Item\_barang.xml

|  |
| --- |
| <?xml version="1.0" encoding="utf-8"?> <androidx.cardview.widget.CardView  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="80dp"  android:layout\_marginStart="12dp"  android:layout\_marginEnd="12dp"  android:layout\_marginTop="8dp"  android:backgroundTint="@color/cardview\_light\_background"  app:cardCornerRadius="20dp">   <LinearLayout  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:gravity="center"  android:orientation="vertical">   <TextView  android:id="@+id/tvNama"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:layout\_marginStart="16dp"  android:layout\_marginEnd="16dp"  android:text="Nama barang"  android:textColor="@color/black"  android:textStyle="bold"  android:textSize="18sp" />   <TextView  android:id="@+id/tvJenis"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:layout\_marginStart="16dp"  android:layout\_marginEnd="16dp"  android:text="Jenis barang"  android:textColor="@color/black"  android:textSize="16sp" />   </LinearLayout>  </androidx.cardview.widget.CardView> |

## Link Github

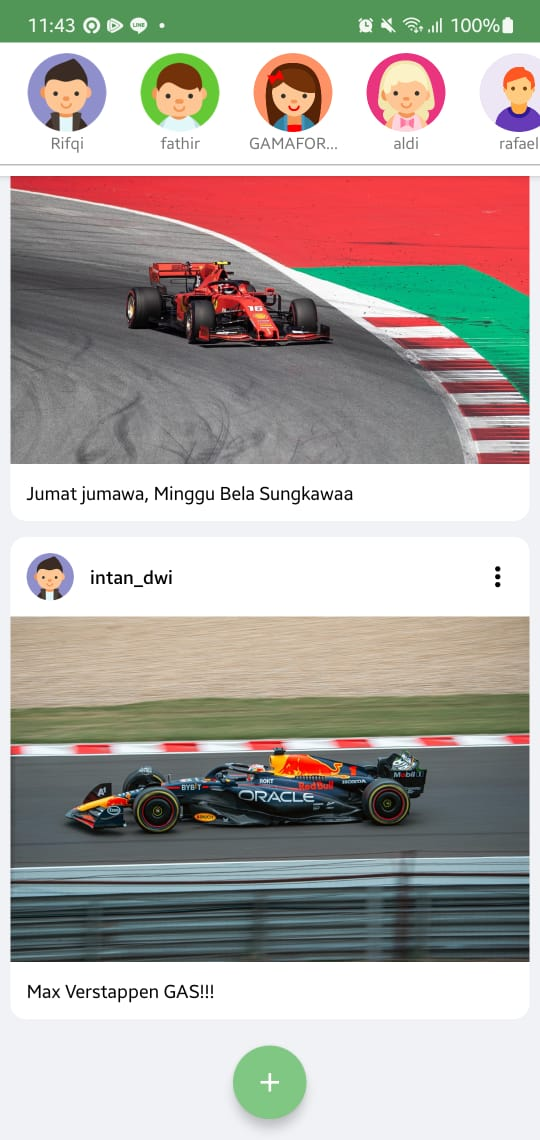
<https://github.com/rifqichusaini/Praktikum-Pemrograman-Mobile/tree/main/P5-Recyclerview/Langkah_Prak>

## Output

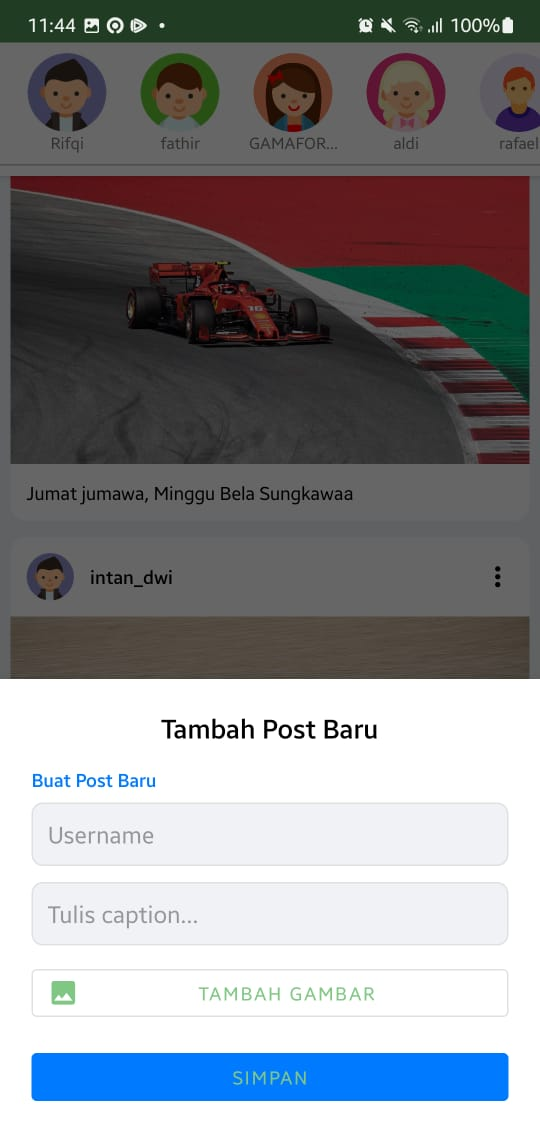


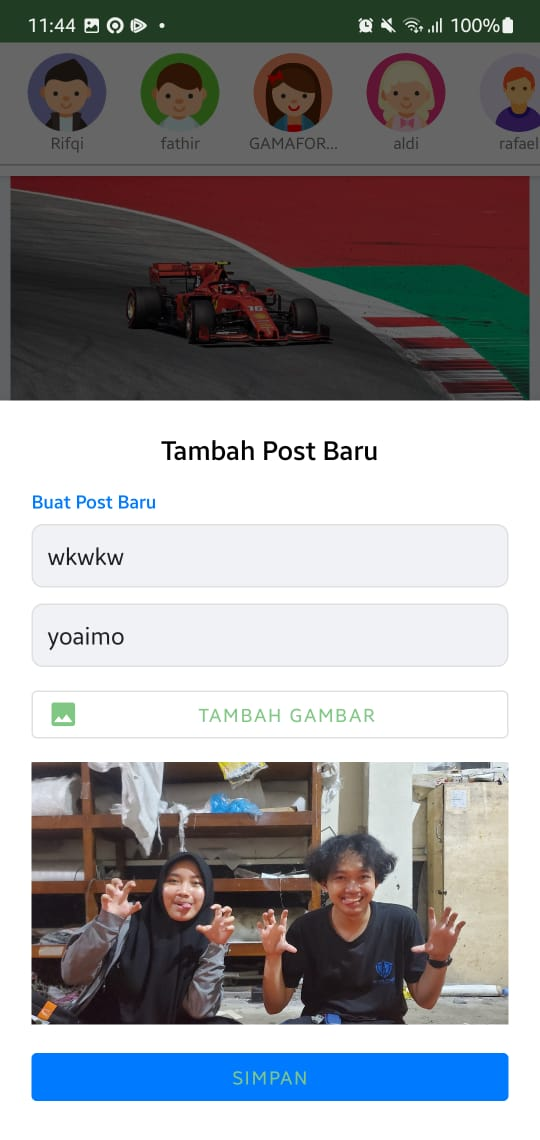
# POST TEST

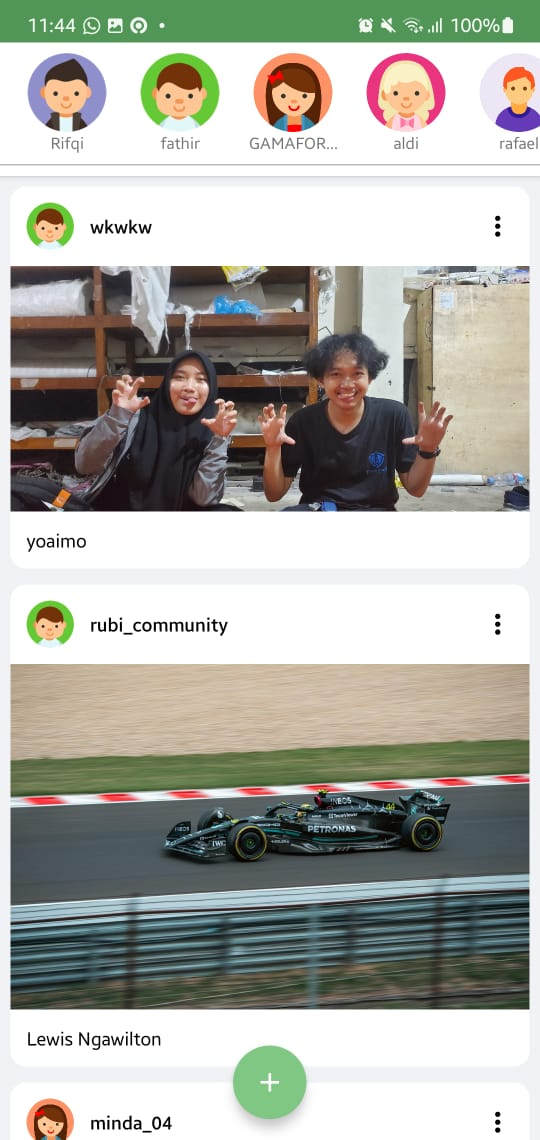
## Halaman Utama



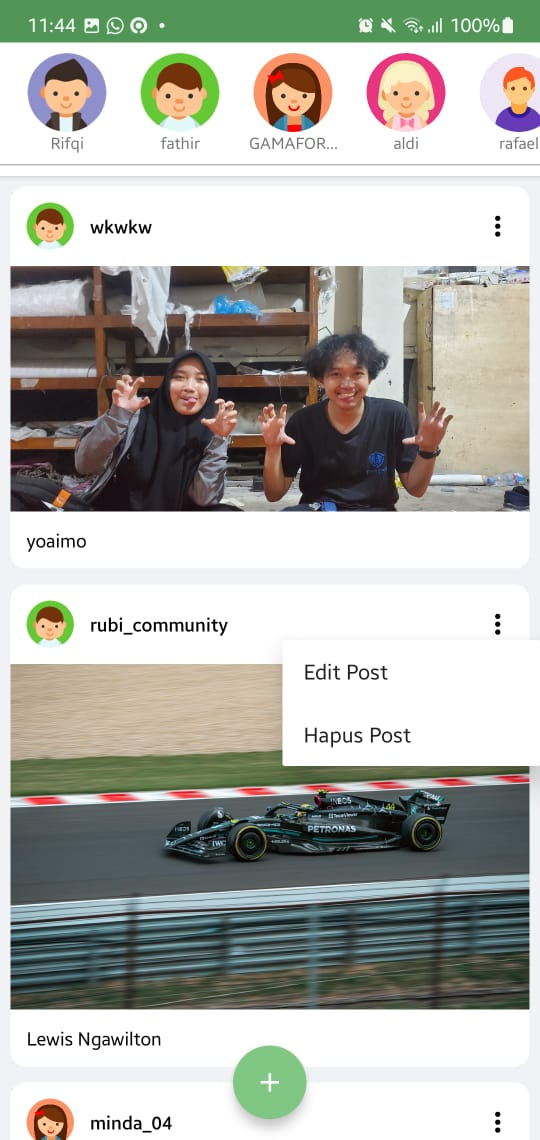
## Tambah Post Baru

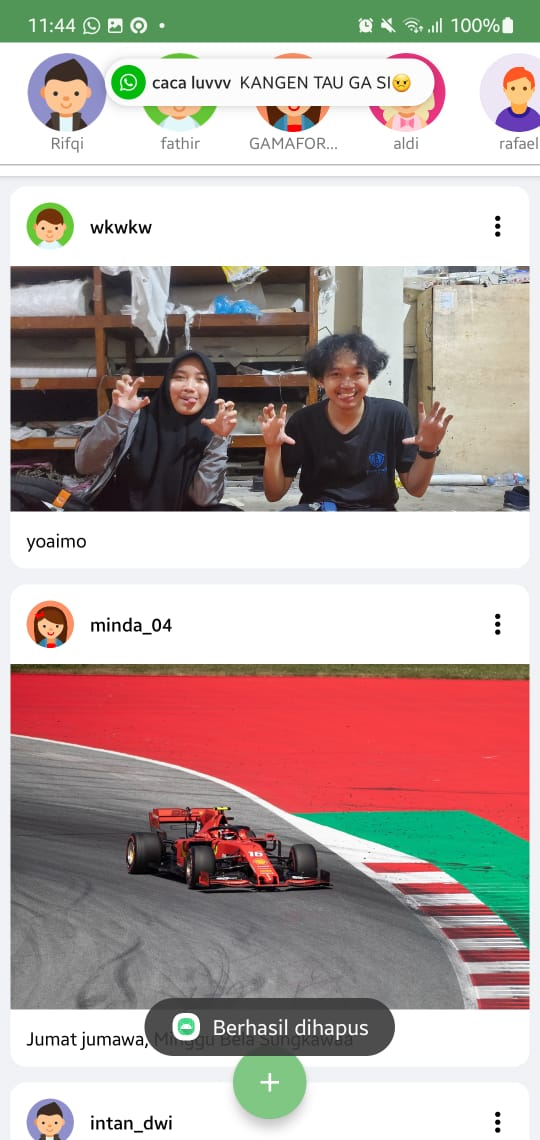




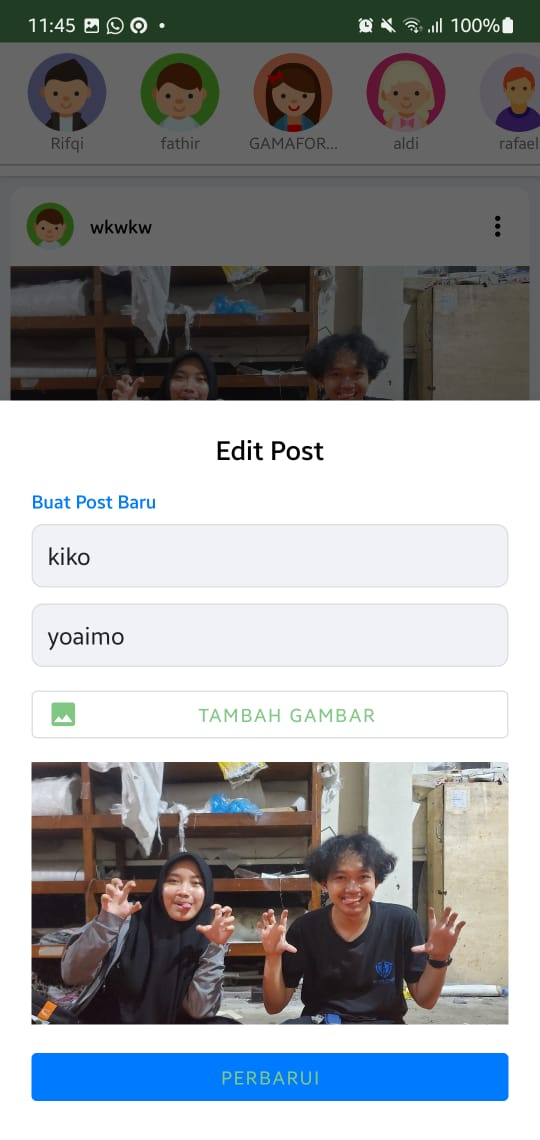


## Hapus Post





## Edit post



## Link Github

<https://github.com/rifqichusaini/Praktikum-Pemrograman-Mobile/tree/main/P5-Recyclerview/Post>