

Guías Prácticas Nº 3

Asignatura

DESARROLLO DE APLICACIONES MÓVILES

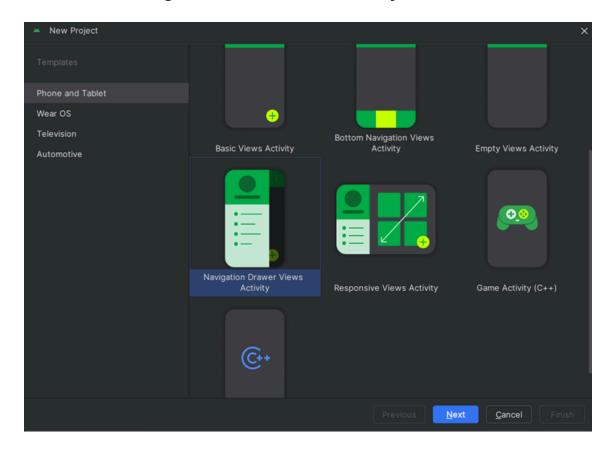
Docente : Ing. Yan Casayco Contreras

Facultad : Ingeniería

Sección: _____ Fecha: ____

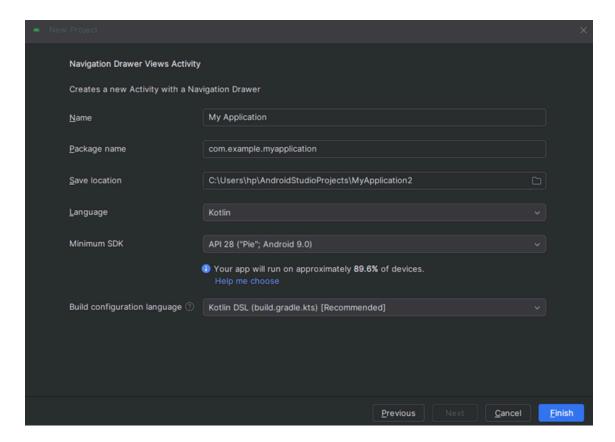
Crea un nuevo proyecto

Selecciona "Navigation Drawer Views Activity"





Usa esta configuración



1. MainActivity.kt



```
import android.os.Bundle
import android.view.Menu
import com.google.android.material.snackbar.Snackbar
import com.google.android.material.navigation.NavigationView
import androidx.navigation.findNavController
import androidx.navigation.ui.AppBarConfiguration
import androidx.navigation.ui.navigateUp
import androidx.navigation.ui.setupActionBarWithNavController
import androidx.navigation.ui.setupWithNavController
import androidx.drawerlayout.widget.DrawerLayout
import androidx.appcompat.app.AppCompatActivity
import com.example.myapplication.databinding.ActivityMainBinding
import android.view.MenuItem
import androidx.appcompat.app.AppCompatDelegate
```



```
class MainActivity : AppCompatActivity() {
        private lateinit var appBarConfiguration: AppBarConfiguration
        private lateinit var binding: ActivityMainBinding
        override fun onCreate(savedInstanceState: Bundle?) {
            super.onCreate(savedInstanceState)
            binding = ActivityMainBinding.inflate(layoutInflater)
            setContentView(binding.root)
            setSupportActionBar(binding.appBarMain.toolbar)
            binding.appBarMain.fab.setOnClickListener { view ->
                Snackbar.make(view, text: "Reemplaza con tu propia acción", Snackbar.LENGTH_LONG)
            val drawerLayout: DrawerLayout = binding.drawerLayout
            val navView: NavigationView = binding.navView
            val navController = findNavController(R.id.nav_host_fragment_content_main)
            appBarConfiguration = AppBarConfiguration(
                setOf(R.id.nav_home, R.id.nav_gallery, R.id.nav_slideshow), drawerLayout
            setupActionBarWithNavController(navController, appBarConfiguration)
            navView.setupWithNavController(navController)
            menuInflater.inflate(R.menu.main, menu)
            return true
        override fun onOptionsItemSelected(item: MenuItem): Boolean {
            return when (item.itemId) {
                R.id.action_toggle_theme -> {
                    val nightMode = AppCompatDelegate.getDefaultNightMode()
                    AppCompatDelegate.setDefaultNightMode(
                        if (nightMode == AppCompatDelegate.MODE_NIGHT_YES)
```



```
override fun onCreateOptionsMenu(menu: Menu): Boolean {
   menuInflater.inflate(R.menu.main, menu)
   return true
override fun onOptionsItemSelected(item: MenuItem): Boolean {
   return when (item.itemId) {
       R.id.action_toggle_theme -> {
            val nightMode = AppCompatDelegate.getDefaultNightMode()
            AppCompatDelegate.setDefaultNightMode(
                if (nightMode == AppCompatDelegate.MODE_NIGHT_YES)
                    AppCompatDelegate.MODE_NIGHT_NO
                else AppCompatDelegate.MODE_NIGHT_YES
            true
       else -> super.onOptionsItemSelected(item)
override fun onSupportNavigateUp(): Boolean {
   val navController = findNavController(R.id.nav_host_fragment_content_main)
   return navController.navigateUp(appBarConfiguration) || super.onSupportNavigateUp()
```

2. res/menu/main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">
    <item
        android:id="@+id/action_settings"
        android:orderInCategory="100"
        android:title="Settings"
        app:showAsAction="never" />

    <item
        android:id="@+id/action_toggle_theme"
        android:title="Cambiar tema"
        android:orderInCategory="100"
        app:showAsAction="never" />
    </menu>
```



3. res/layout/fragment_home.xml

```
<?xml version="1.0" encoding="utf-8"?>
                                                                                                   /A3 ^
androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/andro
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   <TextView
       android:id="@+id/text_home"
       android:layout_width="match_parent"
       android:layout_height="wrap_content"
       android:layout_marginStart="8dp"
       android:layout_marginTop="8dp"
       android:layout_marginEnd="8dp"
       android:textAlignment="center"
       android:textSize="20sp"
       app:layout_constraintBottom_toBottomOf="parent"
       app:layout_constraintEnd_toEndOf="parent"
       app:layout_constraintStart_toStartOf="parent"
       app:layout_constraintTop_toTopOf="parent" />
   <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
       android:layout_width="match_parent"
       android:layout_height="match_parent"
       android:orientation="vertical"
       android:padding="16dp">
           android:id="@+id/btnToggleGrafico"
           android:layout_width="wrap_content"
           android:layout_height="wrap_content"
           android:text="Mostrar Gráfico" />
           android:id="@+id/graficoSimulado"
           android:layout_width="match_parent"
           android:layout_height="150dp"
```



```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
       android:layout_width="match_parent"
       android:layout_height="match_parent"
       android:orientation="vertical"
       android:padding="16dp">
       <Button
           android:id="@+id/btnToggleGrafico"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
           android:text="Mostrar Gráfico" />
       <View
           android:id="@+id/graficoSimulado"
            android:layout_width="match_parent"
            android:layout_height="150dp"
            android:background="@android:color/holo_blue_light"
           android:layout_marginTop="16dp" />
    </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

4. res/layout/fragment_gallery.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns;android="http://schemas.android.com/apk/res</p>
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
   android:layout_height="match_parent"
       android:id="@+id/text_gallery"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginStart="8dp"
        android:layout_marginTop="8dp"
        android:layout_marginEnd="8dp"
        android:textAlignment="center"
       android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
```



```
<TextView
       android:layout_width="match_parent"
       android:layout_height="wrap_content"
       android:layout_marginStart="8dp"
       android:layout_marginTop="8dp"
       android:layout_marginEnd="8dp"
       android:textAlignment="center"
       app:layout_constraintBottom_toBottomOf="parent"
       app:layout_constraintEnd_toEndOf="parent"
       app:layout_constraintStart_toStartOf="parent"
       app:layout_constraintTop_toTopOf="parent" />
   <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
       android:layout_width="match_parent"
       android:layout_height="match_parent"
       android:orientation="vertical"
       android:padding="16dp">
       <Button
           android:id="@+id/btnNotificacionToast"
           android:layout_width="wrap_content"
           android:layout_height="wrap_content"
           android:text="Mostrar Toast" />
       <Button
           android:layout_width="wrap_content"
           android:layout_height="wrap_content"
           android:layout_marginTop="8dp" />
   </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```



5. res/layout/fragment_slideshow.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    <TextView
       android:id="@+id/text_slideshow"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginStart="8dp"
        android:layout_marginTop="8dp"
        android:layout_marginEnd="8dp"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:padding="16dp">
        <View
            android:id="@+id/circuloAnimado"
            android:layout_width="50dp"
            android:layout_height="50dp"
            android:layout_gravity="center"
            android:background="@drawable/circle" />
</androidx.constraintlayout.widget.ConstraintLayout>
```



6. res/drawable/circle.xml

7. HomeFragment.kt



```
package com.example.myapplication.ui.home
import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import androidx.fragment.app.Fragment
import android.widget.Button
import com.example.myapplication.R
class HomeFragment : Fragment() {
    override fun onCreateView(
        inflater: LayoutInflater, container: ViewGroup?, savedInstanceState: Bundle?
    ): View? {
       val root = inflater.inflate(R.layout.<u>frαgment_home</u>, container, attachToRoot: false)
        val btnToggleGrafico = root.findViewById<Button>(R.id.btnToggleGrafico)
        val grafico = root.findViewById<View>(R.id.graficoSimulado)
        btnToggleGrafico.setOnClickListener {
            if (grafico.visibility == View.GONE) {
                grafico.visibility = View.VISIBLE
                btnToggleGrafico.<u>text</u> = "Ocultar Gráfico"
                grafico.visibility = View.GONE
                btnToggleGrafico.<u>text</u> = "Mostrar Gráfico"
```



8. GalleryFragment.kt

```
package com.example.myapplication.ui.gallery

9 2 △ 5 ★ 9

import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import androidx.fragment.app.Fragment
import android.app.NotificationChannel
import android.app.NotificationManager
import android.content.Context
import android.os.Build
import android.widget.Button
import android.widget.Toast
import androidx.core.app.NotificationCompat
import androidx.core.app.NotificationManagerCompat
import com.example.myapplication.R
class GalleryFragment : Fragment() {
    override fun onCreateView(
        inflater: LayoutInflater, container: ViewGroup?, savedInstanceState: Bundle?
    ): View? {
        val root = inflater.inflate(R.layout.fragment_gallery, container, attachToRoot: false)
        val btnToast = root.findViewById<Button>(R.id.btnNotificacionToast)
        val btnNotificacion = root.findViewById<Button>(R.id.btnNotificacionSystem)
        btnToast.setOnClickListener {
```



9. SlideshowFragment.kt

```
import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.fragment.app.Fragment
import androidx.lifecycle.ViewModelProvider
import com.example.myapplication.databinding.FragmentSlideshowBinding
import com.example.myapplication.R
```



```
class SlideshowFragment : Fragment() {
    override fun onCreateView(
        inflater: LayoutInflater, container: ViewGroup?, savedInstanceState: Bundle?
): View? {
    val root = inflater.inflate(R.layout.fragment_slideshow, container, attachToRoot: false)

    val circulo = root.findViewById<View>(R.id.circuloAnimado)
    val animator = ObjectAnimator.ofFloat(circulo, propertyName: "translationX", ...values: Of, 500f).apply {
        duration = 1000
        repeatMode = ObjectAnimator.REVERSE
        repeatCount = ObjectAnimator.INFINITE
        start()
    }
    return root
}
```

10. AndroidManifest.xml

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:tools="http://schemas.android.com/tools">
   <uses-permission android:name="android.permission.POST_NOTIFICATIONS" />
```