

Facultad de ingeniería en ciencias de la computación

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Practico 2 DSM

Desarrollo de Software para Móviles DSM104 G04L

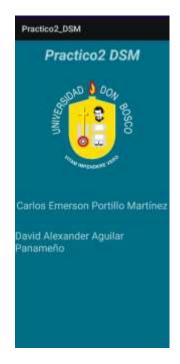
Nombres y apellidos	Carnet
David Alexander Aguilar Panameño	AP190139
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### Splash Screen (100%)

### SplashScreen.kt

#### activity\_splash\_screen.xml

```
app:layout constraintBottom toTopOf="@+id/imageView"
       android:layout width="wrap content"
</androidx.constraintlayout.widget.ConstraintLayout>
```



### Login(100%)

#### LoginScreen.kt

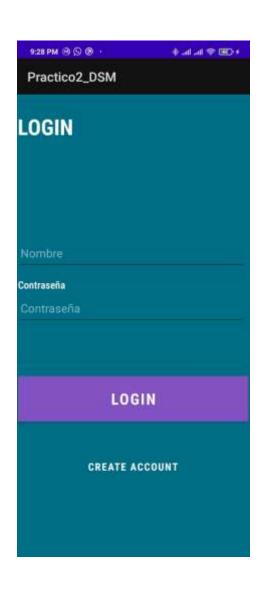
```
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.Toast
          loginBtn = findViewById<Button>(R.id.loginGoBtn)
findViewById<EditText>(R.id.passwordRegisterTxt).text.toString()
     private fun login(email: String, password: String){
         auth.signInWithEmailAndPassword(email,
password).addOnCompleteListener{ task ->
                    finish()
          }.addOnFailureListener{exception ->
     private fun goToRegister() {
```

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
       app:layout constraintTop toBottomOf="@+id/loginGoBtn" />
   <TextView
       app:layout constraintTop toBottomOf="@+id/nameRegisterTxt" />
   <EditText
       android:layout width="352dp"
       android:layout marginStart="27dp"
       android:layout marginEnd="32dp"
```

```
<TextView
<EditText
<TextView
    app:layout constraintBottom toTopOf="@+id/nameRegisterTxt"
    app:layout constraintEnd toEndOf="parent"
    android:layout height="70dp"
```

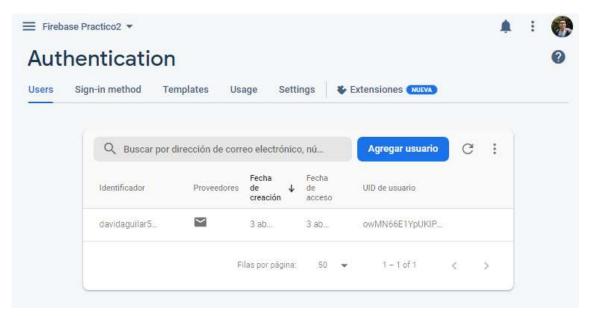
```
android:backgroundTintMode="add"
android:fontFamily="sans-serif-condensed-medium"
android:text="Login"
android:textAllCaps="true"
android:textSize="24sp"
android:textStyle="bold"
app:layout_constraintBottom_toTopOf="@+id/goSignBtn"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/passwordRegisterTxt"
/>

</androidx.constraintlayout.widget.ConstraintLayout>
```









#### MainActivity.kt

## activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity"
    android:background="@color/simplebackgroundcolor">

<TextView
    android:layout_width="wrap_content"
    android:text="Home"
    android:text="Home"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<ImageView</pre>
```

```
android:id="@+id/imageView2"
android:layout_width="394dp"
android:layout_height="393dp"
android:layout_marginStart="130dp"
android:layout_marginTop="35dp"
android:layout_marginEnd="131dp"
android:layout_marginBottom="208dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0"
app:srcCompat="@drawable/iconoportada" />
```



### **Ejercicio 1(100%)**

### Ejercicio1.kt

```
import android.app.Application
    var consultaOrdenada:Query = refEstudiantes.orderByChild("nombre")
    var estudiantesLista:MutableList<Estudiantes>? = null
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
       val nombre = findViewById<EditText>(R.id.txtNombre)
        val n5 = findViewById<EditText>(R.id.txtNota5)
        val btn promedio = findViewById<Button>(R.id.btnPromedio)
        val btn borrar = findViewById<Button>(R.id.eliminarBtn)
        val nota = findViewById<TextView>(R.id.txtPromedio)
        inicializar();
        btn promedio.setOnClickListener{
n4.text.toString().toDouble() + n5.text.toString().toDouble())/5
```

```
database.getReference("estudiantes")
findViewById<EditText>(R.id.txtNombre).text.toString()
AdapterView.OnItemSelectedListener{
adapterView?.getItemAtPosition(position).toString();
findViewById<TextView>(R.id.txtAprobacion)
database.getReference("estudiantes")
refEstudiantes.child(estudianteSeleccionado).get().addOnSuccessListene
                    var nombreTemp = it.child("nombre").value;
                    var notalTemp = it.child("notal").value;
                    var nota2Temp = it.child("nota2").value;
                    var nota3Temp = it.child("nota3").value;
                    var nota4Temp = it.child("nota4").value;
                    var nota5Temp = it.child("nota5").value;
                    var notaTemp = it.child("nota").value;
```

```
n3.setText(nota3Temp.toString())
                    n4.setText(nota4Temp.toString())
                }.addOnFailureListener{
    fun quardar() {
        var refEstudiantes:DatabaseReference =
findViewById<EditText>(R.id.txtNombre).text.toString()
findViewById<EditText>(R.id.txtNotal).text.toString().toDouble()
        refEstudiantes.child(nombre).get().addOnSuccessListener{
                val key = refEstudiantes.child("nombre").push().key
                    Toast.makeText(applicationContext, "Llave vacía",
                val estudiantesValues = estudiante.toMap()
                val childUpdates = hashMapOf<String, Any>(
                    "$nombre" to estudiantesValues
                refEstudiantes.updateChildren(childUpdates)
```

```
refEstudiantes.child(nombre).setValue(estudiante).addOnSuccessListener
exito", Toast.LENGTH LONG).show()
                }.addOnFailureListener{
        }.addOnFailureListener{
            Toast.makeText(applicationContext, "No conseguimos nada",
            Toast.makeText(applicationContext, "Es: "+it,
    private fun inicializar(){
findViewById<Spinner>(R.id.estudiantesSpinner);
        consultaOrdenada.addValueEventListener(object :
ValueEventListener{
            override fun onDataChange(snapshot: DataSnapshot) {
dato.getValue(Estudiantes::class.java)
estudiantesArray!!.removeAll(estudiantesArray!!.toSet())
                val dataAdapter =
ArrayAdapter<String>(applicationContext,
dataAdapter.setDropDownViewResource(android.R.layout.simple spinner dr
            override fun onCancelled(error: DatabaseError) {
    override fun onCreateOptionsMenu(menu: Menu?): Boolean {
```

```
override fun onOptionsItemSelected(item: MenuItem): Boolean {
    when(item.itemId) {
        R.id.Home -> startActivity(Intent(this,

MainActivity::class.java))
        R.id.ejercicio1 -> Toast.makeText(this, "Ejercicio 1",

Toast.LENGTH_SHORT).show()
        R.id.ejercicio2 -> startActivity(Intent(this,

Ejercicio2::class.java))
        R.id.ejercicio3 -> startActivity(Intent(this,

Ejercicio3::class.java))
   }
   return super.onOptionsItemSelected(item)
}

companion object{
   var database:FirebaseDatabase = FirebaseDatabase.getInstance()
   var refEstudiantes:DatabaseReference =

database.getReference("estudiantes")
}
```

#### Ejercicio1.xml

```
android:layout height="wrap content
    android:textColor="#fff" />
    android:layout width="match parent"
    android:textColor="#fff" />
<EditText
<EditText
    android:inputType="numberDecimal"
    android:textColor="#fff" />
```

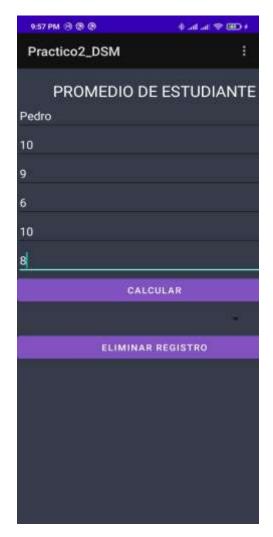
#### Estudiantes.kt

```
class Estudiantes {
    fun key(key: String?) {
    }

    var nombre: String? = null
    var nota1: Double? = null
    var nota2: Double? = null
    var nota3: Double? = null
    var nota4: Double? = null
    var nota5: Double? = null
    var nota5: Double? = null
    var nota String? = null
    var nota String? = null
    var aprobacion: String? = null
    var est: MutableMap<String, Boolean> = HashMap()

    constructor() {}
    constructor(nombre: String?, nota1: Double?, nota2: Double?,
    nota3: Double?, nota4: Double?, nota5: Double?, nota:String?,
    aprobacion: String?) {
        this.nombre = nombre;
        this.nota1 = nota1;
        this.nota2 = nota2;
        this.nota3 = nota3;
    }
}
```

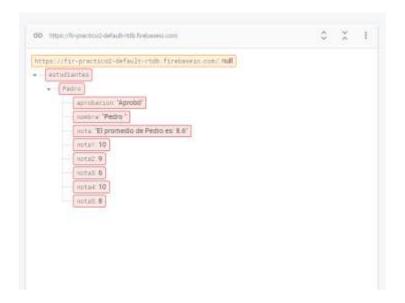








# Eliminamos el registro dando click en eliminar registro



### **Ejercicio 2(100%)**

### Ejercicio2.kt

```
var consultaOrdenada:Query =
refEmpleados.orderByChild("empNombre")
   override fun onCreate(savedInstanceState: Bundle?) {
      inicializar();
       btnSalario.setOnClickListener{
```

```
val salarioNeto = salarioBase - ISSS - AFP - RENTA
        refEmpleados.child(nombre).get().addOnSuccessListener{
                refEmpleados.updateChildren(childUpdates)
actualizado correctamente", Toast.LENGTH LONG).show()
refEmpleados.child(nombre).setValue(empleado).addOnSuccessListener {
                }.addOnFailureListener{
        }.addOnFailureListener{
        consultaOrdenada.addValueEventListener(object :
            override fun onDataChange(snapshot: DataSnapshot) {
                EmpleadosLista!!.removeAll( EmpleadosLista!!)
dato.getValue(Empleados::class.java)
                    empleado?.key(dato.key)
                        EmpleadosLista!!.add(empleado)
AdaptadorEmpleado(this@Ejercicio2,EmpleadosLista as
ArrayList<Empleados>)
```

```
AdapterView.OnItemLongClickListener {
                        refEmpleados.child(it).removeValue()
                    ).show()
                        ).show()
    override fun onCreateOptionsMenu(menu: Menu?): Boolean {
        menuInflater.inflate(R.menu.main menu, menu)
    override fun onOptionsItemSelected(item: MenuItem): Boolean {
MainActivity::class.java))
```

```
R.id.ejercicio3 -> startActivity(Intent(this,
Ejercicio3::class.java))

}

return super.onOptionsItemSelected(item)
}

companion object{
 var database:FirebaseDatabase = FirebaseDatabase.getInstance()
 var refEmpleados:DatabaseReference =
database.getReference("Empleados")
}
```

## activity\_ejercicio2.xml

```
android: layout width="match parent"
android:layout height="match parent"
<LinearLayout
    tools:layout editor absoluteX="1dp"
    <EditText
    <EditText
```

```
android:id="@+id/txtSalarioBase
    android:layout width="match parent"
    android:textColor="#fff" />
    android:textAlignment="center"
<TextView
<TextView
    android:layout width="match parent"
<TextView
    android:layout height="wrap content"
```

<ListView

```
android:id="@+id/ListaEmpleados"
    android:layout_width="match_parent"
    android:layout_height="match_parent" />
    </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

## Empleados.kt

### empleados layout.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_margin="10dp"

android:layout_height="wrap_content">

<TextView
    android:background="#ffffff"
    android:layout_margin="5dp"
    android:textSize="18sp"
    android:textColor="@color/black"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>

<TextView
    android:id="@+id/tvSalarioNeto"
    android:background="#ffffff"
    android:layout_margin="5dp"</pre>
```

```
android:textSize="18sp"
    android:textColor="@color/cardview_light_background"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>
</LinearLayout>
```

### Adaptador Empleado.kt

```
package com.example.practicol_dsm
import android.app.Activity
import android.view.View
import android.wiew.ViewGroup
import android.widget.ArrayAdapter
import android.widget.TextView
import com.example.practicol_dsm.datos.Empleados

class AdaptadorEmpleado(private val context: Activity, var
empleados: List<Empleados>):
    ArrayAdapter<Empleados?>(context, R.layout.empleados_layout,
empleados) {
    override fun getView(position: Int, view: View?, parent:
ViewGroup): View {

    val layoutInflater = context.layoutInflater
    var rowview: View? = null

    rowview = view ?:
layoutInflater.inflate(R.layout.empleados_layout, null)
    val tvSalarioNeto =
rowview!!.findViewById<TextView>(R.id.tvSalarioNeto)
    val tvNombre =
rowview.findViewById<TextView>(R.id.tvNombre)
    tvNombre.text = "Nombre : " + empleados[position].nombre
    tvSalarioNeto.text = "Salario Neto : " +
empleados[position].SalarioNeto
    return rowview
}
```



