

## Actividad Autonoma Moviles III

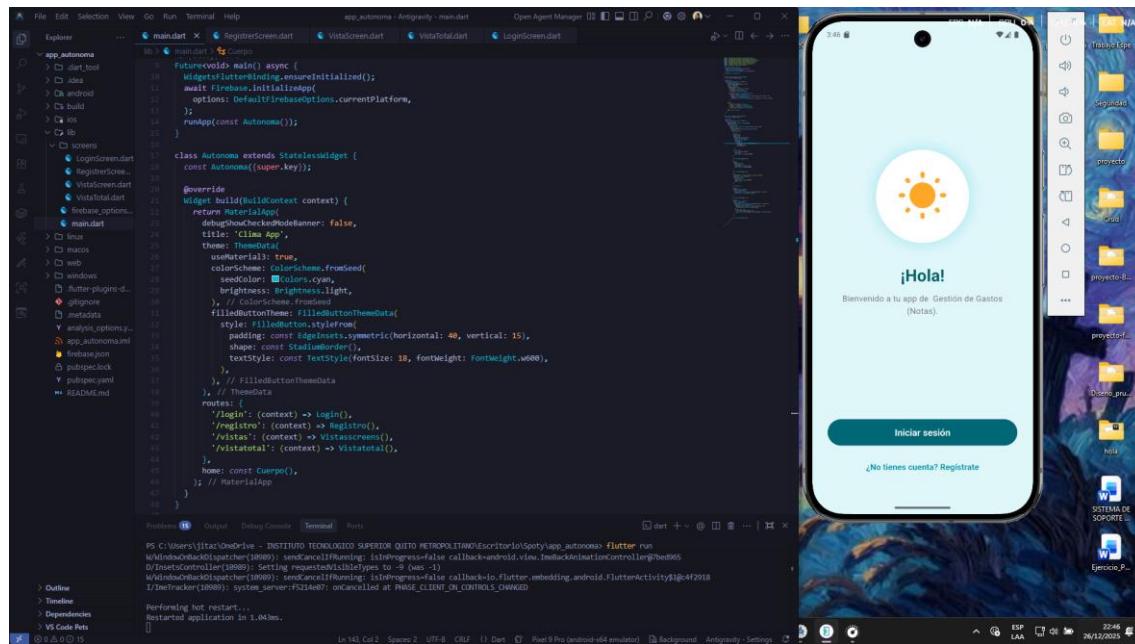
### Introducción

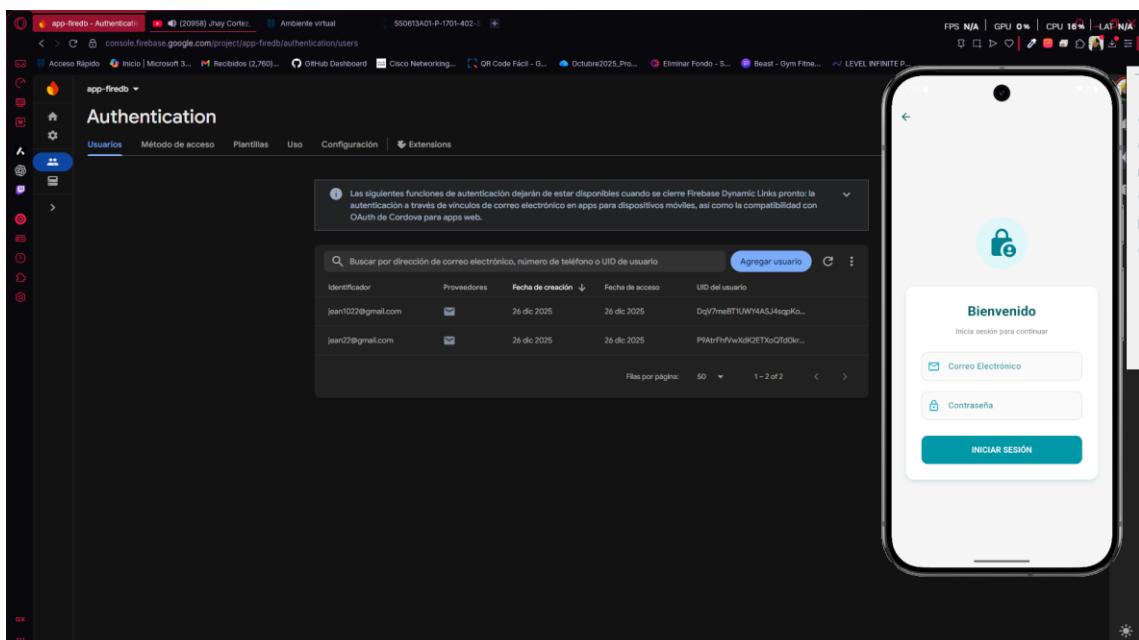
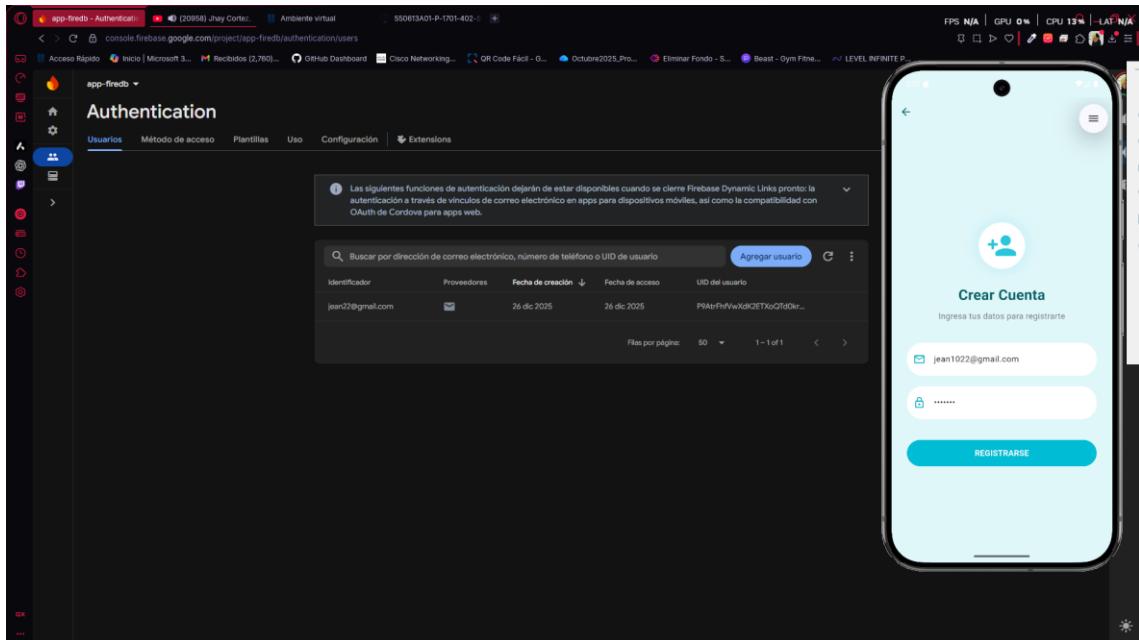
Desarrollar una aplicación móvil en React Native que permita a los usuarios registrar, editar y eliminar notas de gastos. Cada usuario tendrá su propia colección de notas almacenada en Firebase Realtime Database, accesible solo mediante autenticación previa (login y registros obligatorios).

### Objetivo General

- Vista de lista de notas y vista detallada individual.
- Cada nota debe incluir al menos: título, descripción y precio.
- Sincronización en tiempo real entre dispositivos. - Interfaz accesible solo para usuarios registrados (con sistema de login/registro integrado).

### Aplicación en Funcionamiento





The screenshot shows the Firebase Authentication console. On the left, there's a sidebar with icons for users, methods of access, templates, usage, configuration, and extensions. The main area is titled "Authentication" and has a sub-tab "Users". It displays two users: "jean1022@gmail.com" and "jean22@gmail.com", both created on December 26, 2025. A message at the top indicates that some features will be available when Dynamic Links are enabled. Below the users is a search bar and a table with columns for Identifier, Providers, Creation Date, Last Access Date, and User ID. A modal window titled "Bienvenido" (Welcome) is displayed on the right, asking for email and password, and featuring a teal "INICIAR SESIÓN" (Start Session) button.

The screenshot shows the Firebase Realtime Database console. On the left, there's a sidebar with icons for data, rules, security rules, usage, and extensions. The main area is titled "Realtime Database" and shows a hierarchical database structure under "https://app-firebase-default.firebaseio.com/". The "usuarios" node contains two entries for "P9AtzFhFVwXdk2ETk0Qt8krJqV2" and "jean1022@gmail.com". The "gastos" node under "P9AtzFhFVwXdk2ETk0Qt8krJqV2" contains a single entry for "0hStkXzjJ3-7UpshUX1" with fields: "descripcion: 'equipo'", "fecha: '2025-12-27T03:43:00.800616'", "precio: '15'", and "titulo: 'laptop'". A modal window titled "Nuevo Gasto" (New Expense) is displayed on the right, allowing the user to enter a title ("TV"), category ("Hogar"), amount ("\$ 100"), and a "Registrar Gasto" (Register Expense) button. There are also links for "Ver Historial de Gastos" (View Expense History) and "Cerrar Sesión" (Logout).

The screenshot shows the Firebase Realtime Database console. The database structure is as follows:

```
usuarios
  P9AtzFhFwXdk2ETXoQTd8krJqV2
    gastos
      -0hStkXzjJ3-7upsMUX1
        descripcion: "equipo"
        fecha: "2025-12-27T03:43:00.800616"
        precio: "15"
        titulo: "Laptop"
      -Tost82z3ezlEjxdn5AvS9Kwvak13
        gastos
          -0hSwNpq7m10wLpeRsyF
            descripcion: "Hogar"
            fecha: "2025-12-27T03:54:42.297516"
            precio: "100"
            titulo: "TV"
```

A mobile application interface for expense management is shown on the right. It has a teal header "Gestión de Gastos". A modal window titled "Nuevo Gasto" is open, showing fields for "Nombre del gasto" (TV), "Descripción (Opcional)" (Hogar), and "Monto" (\$ 100). A "Registrar Gasto" button is at the bottom.

This screenshot is identical to the one above, showing the same database structure and the same mobile application interface for managing expenses.

The screenshot shows the Firebase Realtime Database console. On the left, there's a sidebar with icons for users, rules, and extensions. The main area displays a tree view of data under the 'usuarios' node. Two users are listed: 'P9AtzFhFwXdk2ETk0Qd8krJqV2' and 'Tost82z3ezlEjxdn5AvS9Kwvak13'. Each user has a 'gastos' child node containing two expense entries. The first entry for 'equipo' has a title 'Laptop', price '\$15', date '2025-12-27T03:43:00.800616', and description 'equipo'. The second entry for 'Hogar' has a title 'TV', price '\$100', date '2025-12-27T03:54:42.297516', and description 'Hogar'. On the right, a mobile application interface is shown, displaying a list of expenses with a modal for editing an expense titled 'TV'.

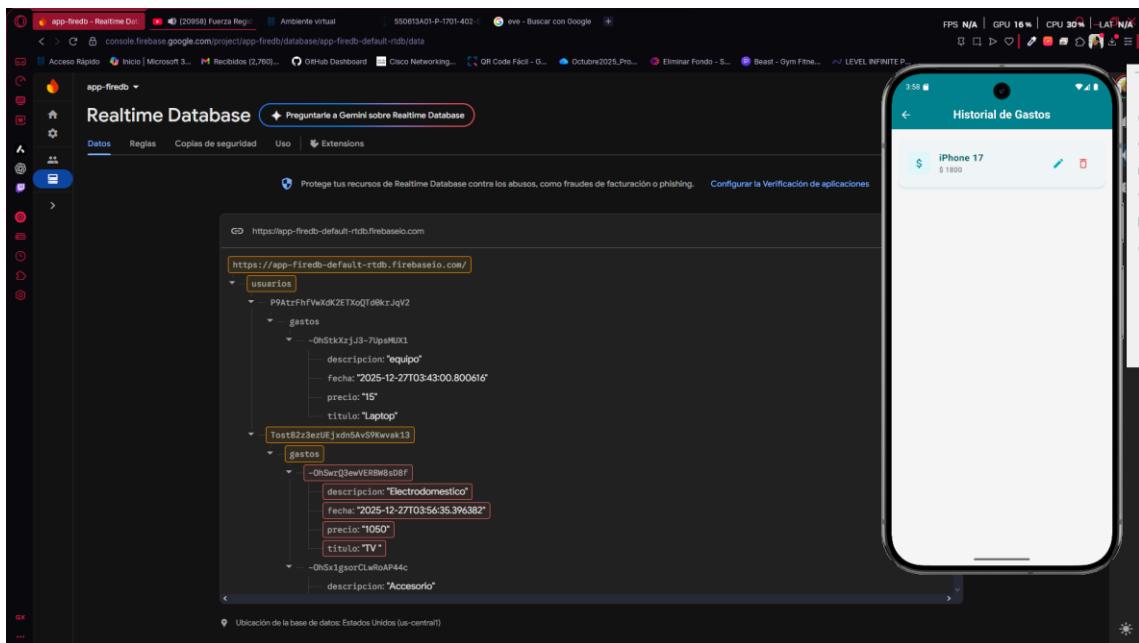
This screenshot is identical to the one above, showing the Firebase Realtime Database console with the same data structure and mobile application interface. It displays the same two users ('P9AtzFhFwXdk2ETk0Qd8krJqV2' and 'Tost82z3ezlEjxdn5AvS9Kwvak13') and their respective expense entries. The mobile application on the right shows the 'Edit Gasto' modal for the 'TV' expense, with the title set to 'TV', price '\$1050', and description 'Electrodoméstico'.

The Firebase Realtime Database console shows a database structure under the 'usuarios' node. The 'gastos' node contains two entries: one for a 'Laptop' (ID: -0hStkXzJ3-7Up8RUX1) and one for a 'TV' (ID: Tost82x2zezl8jxdn5AvS9Rkwak13). Each entry has fields for 'descripcion', 'fecha', 'precio', and 'titulo'. A mobile application screenshot shows a list of expenses with 'TV' and '\$ 1050'.

```
https://app-firebase-default.firebaseio.com/.json
{
  "usuarios": {
    "P9AtfrhfFwxDk2ETXoQId8KrxJqv2": {
      "gastos": {
        "-0hStkXzJ3-7Up8RUX1": {
          "descripcion": "equipo",
          "fecha": "2025-12-27T03:43:00.800616",
          "precio": "15",
          "titulo": "Laptop"
        }
      }
    },
    "Tost82x2zezl8jxdn5AvS9Rkwak13": {
      "gastos": {
        "-0hSwNq7m10wlpeR5yf": {
          "descripcion": "Electrodomestico",
          "fecha": "2025-12-27T03:54:42.297516",
          "precio": "1050",
          "titulo": "TV"
        }
      }
    }
  }
}
```

The Firebase Realtime Database console shows a database structure under the 'usuarios' node. The 'gastos' node contains three entries: one for a 'Laptop' (ID: -0hStkXzJ3-7Up8RUX1), one for a 'TV' (ID: Tost82x2zezl8jxdn5AvS9Rkwak13), and one for an 'iPhone 17' (ID: -0hSwQ3ewVERBm8s08f). Each entry has fields for 'descripcion', 'fecha', 'precio', and 'titulo'. A mobile application screenshot shows a list of expenses with 'iPhone 17' and '\$ 1800'.

```
https://app-firebase-default.firebaseio.com/.json
{
  "usuarios": {
    "P9AtfrhfFwxDk2ETXoQId8KrxJqv2": {
      "gastos": {
        "-0hStkXzJ3-7Up8RUX1": {
          "descripcion": "equipo",
          "fecha": "2025-12-27T03:43:00.800616",
          "precio": "15",
          "titulo": "Laptop"
        }
      }
    },
    "Tost82x2zezl8jxdn5AvS9Rkwak13": {
      "gastos": {
        "-0hSwQ3ewVERBm8s08f": {
          "descripcion": "Electrodomestico",
          "fecha": "2025-12-27T03:56:35.395382",
          "precio": "1050",
          "titulo": "TV"
        },
        "-0hSwQ3ewVERBm8s08f": {
          "descripcion": "Accesorio",
          "fecha": "2025-12-27T03:57:21.592471",
          "precio": "1800",
          "titulo": "iPhone 17"
        }
      }
    }
  }
}
```



**Link GitHub:** [https://github.com/jeanitaz/app\\_autonoma.git](https://github.com/jeanitaz/app_autonoma.git)