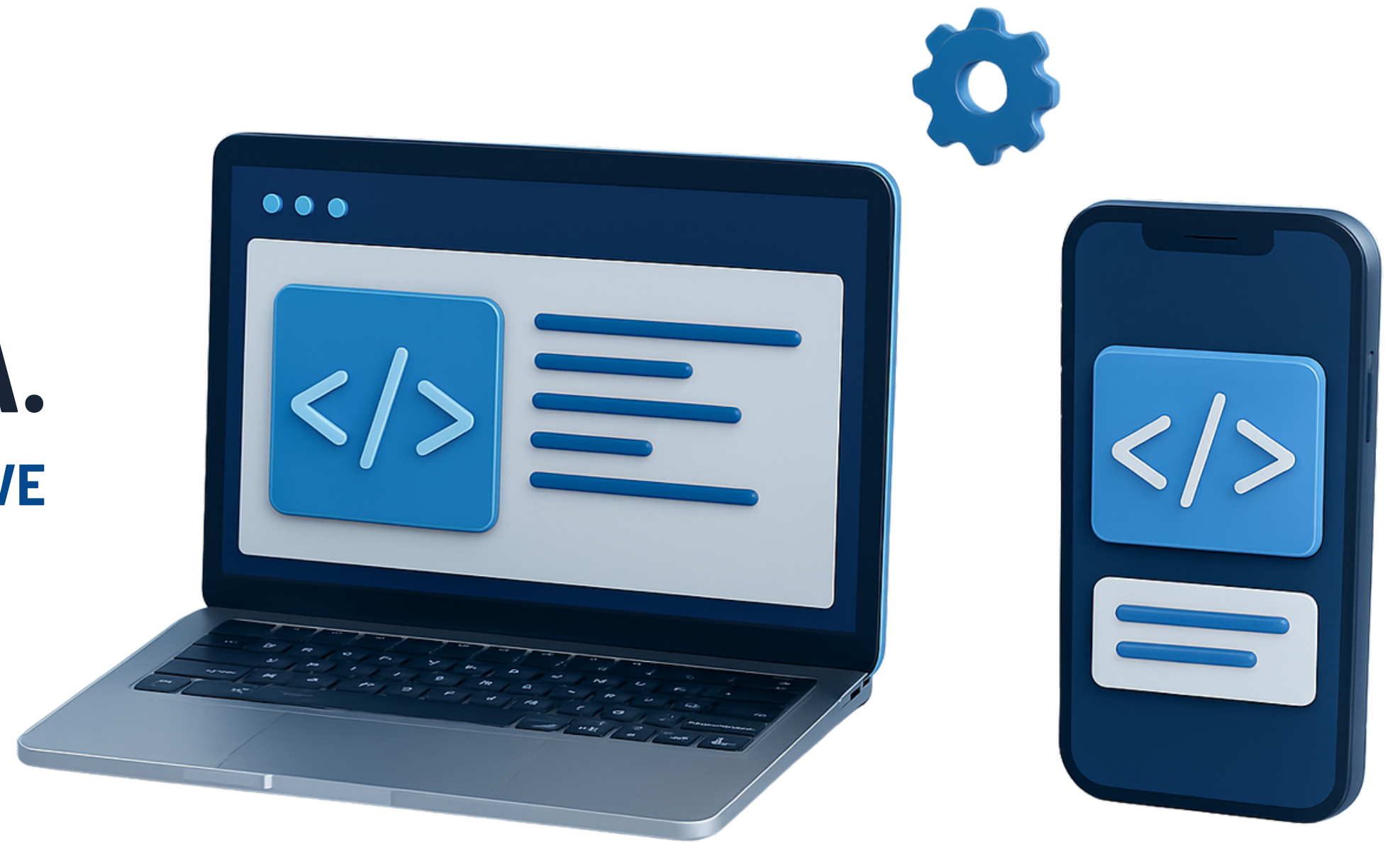




PORTFOLIO – REGXI S.A.

MOBILE & WEB DEVELOPMENT | INNOVATIVE
DIGITAL SOLUTIONS



W W W . R E G X I . C O M

Mobile Apps



UPRISER: VIDEO FOR HOTELS

We're working on this revolutionary app that integrates AI for hotels. We're creating replicas of the managers and then sending a video to guests to welcome them and give them a tour of the hotel they're visiting.



More Info



Mobile Apps

INNOTEST

We've been working on and supporting InnoTest's mobile apps, which are native applications for Android and iOS. We also provide backend support and work on the admin panel.



InnoTest
Guardia Civil

More Info



InnoTest
Policía Nacional

More Info



InnoTest
Correos

More Info





Mobile Apps

TECHNOLOGIES USED

Android Application

- Language: Kotlin
- Frameworks & Tools: Retrofit, Gradle, Firebase SMS, OneSignal, Picasso, io.socket, Flexbox, Dagger 2 / Hilt, Jetpack Compose, Navigation Component, Glide, OkHttp, ROOM, DataStorage
- Architecture: MVVM / MVI
- Highlights: Managed up to 7 apps using a single codebase with Product Flavors

iOS Application

- Language: Swift
- Frameworks: SwiftUI, CoreData, URLRequest
- Architecture: VIPER

Backend / API

- Technology: PHP (Laravel)
- Framework: Lumen

Web Panel

- Technology: Angular
- Libraries & Tools: lottie-web, n2words, fortawesome, socket.io-client

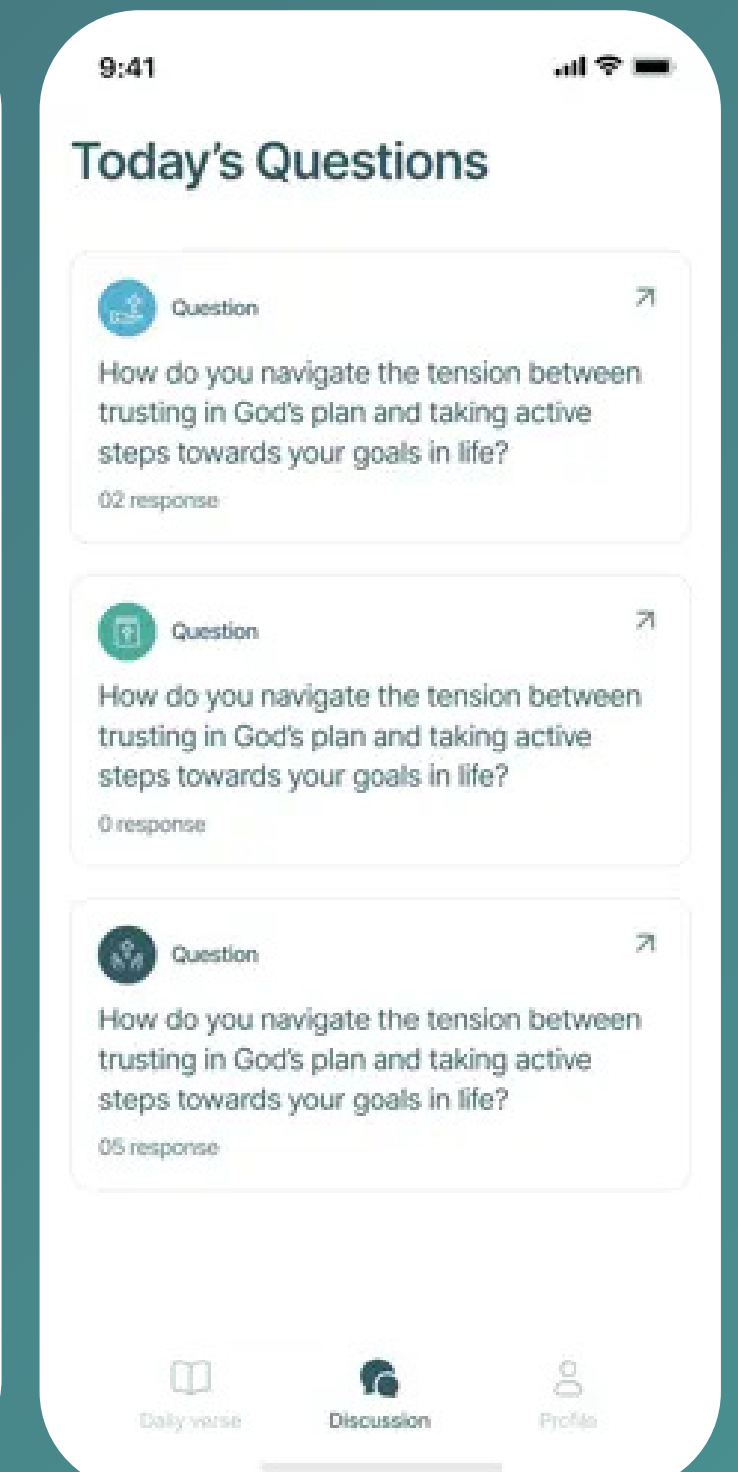
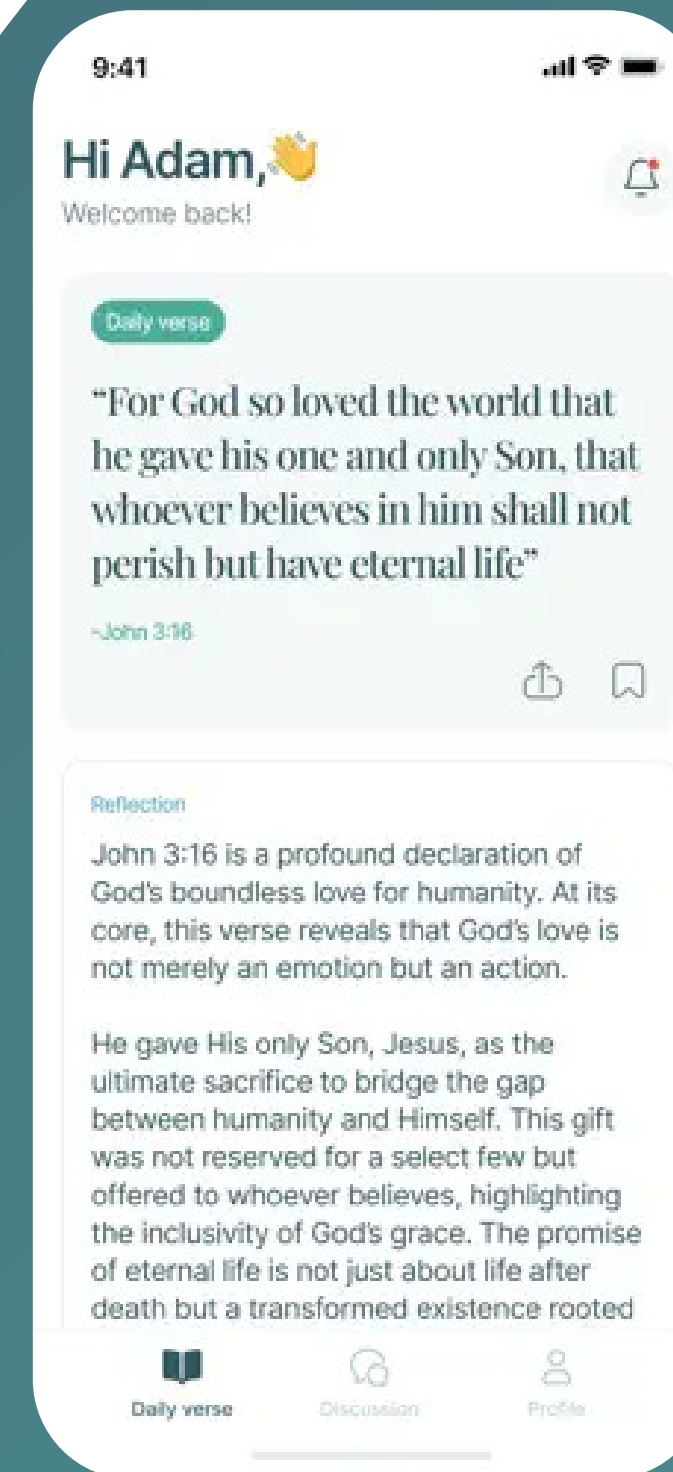
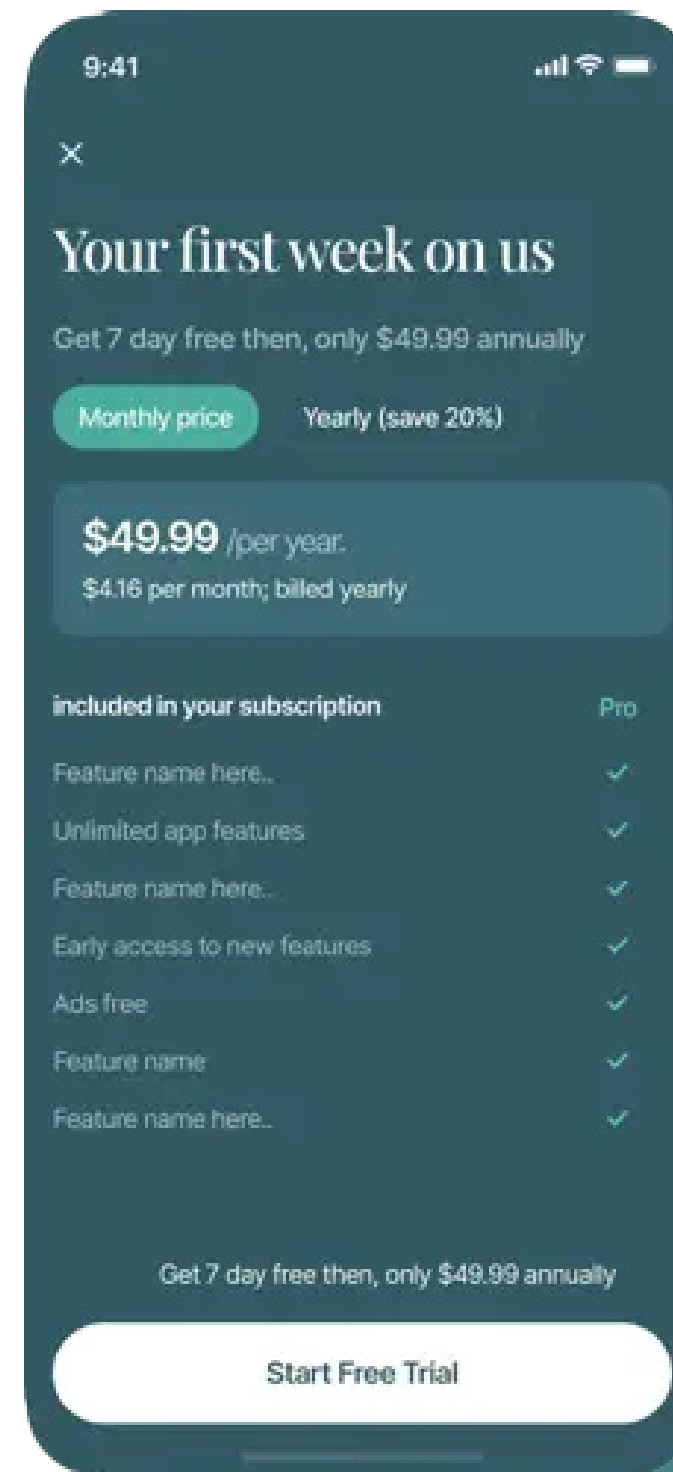
Mobile Apps



WELLSPRING: DAILY BIBLE GUIDE

We are working on the integration part with AI to generate the reading of the day and provide an automatic explanation for readers

More Info



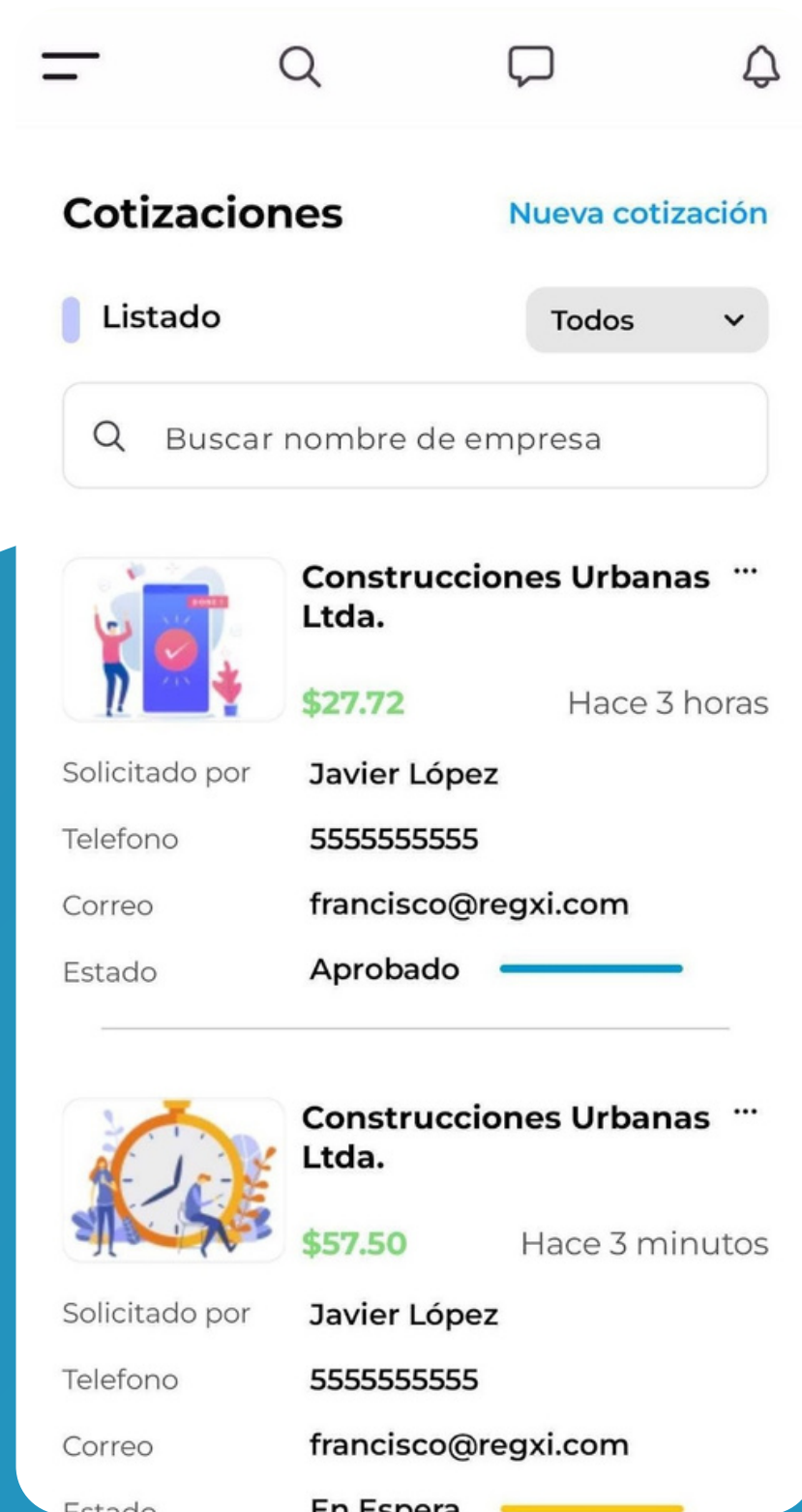
METROCAL

We developed a custom ERP system from scratch, designed specifically to manage quotation processes, data processing for calibration of industrial tools and equipment, and generation of certified documents with legally authorized digital signatures and seals.

The solution was fully tailored to the client's internal workflow, providing automation, efficiency, and reliability across web and mobile platforms.

The image shows a mobile app screen titled "Firmar Orden de servicio". At the top, there is a navigation bar with icons for a menu, search, chat, and notifications. Below the title, there is a section titled "FIRMA DEL CLIENTE" with a subtext: "Si el personal autorizado del servicio no le brinda un 'lápiz táctil' puede hacer uso de su dedo para firmar, Puedes rotar el dispositivo." Below this, there is a large grey box containing a handwritten signature. Underneath the signature box, there is a radio button and the text "Si, acepto el tratamiento de mi firma manuscrita." Below this, there is a blue button labeled "Guardar Firma". At the bottom, there is a section titled "¿Quieres repetir la firma?" with a button labeled "Borrar firma".





TECHNOLOGIES USED

Web Application

- Framework: Next.js
- Styling: Tailwind CSS, CSS3
- State Management: Redux Toolkit
- Language: TypeScript

Web Server

- Framework: NestJS
- ORM: TypeORM
- Database: PostgreSQL
- Other Tools: Nodemailer, Puppeteer
- Language: TypeScript

Android Application

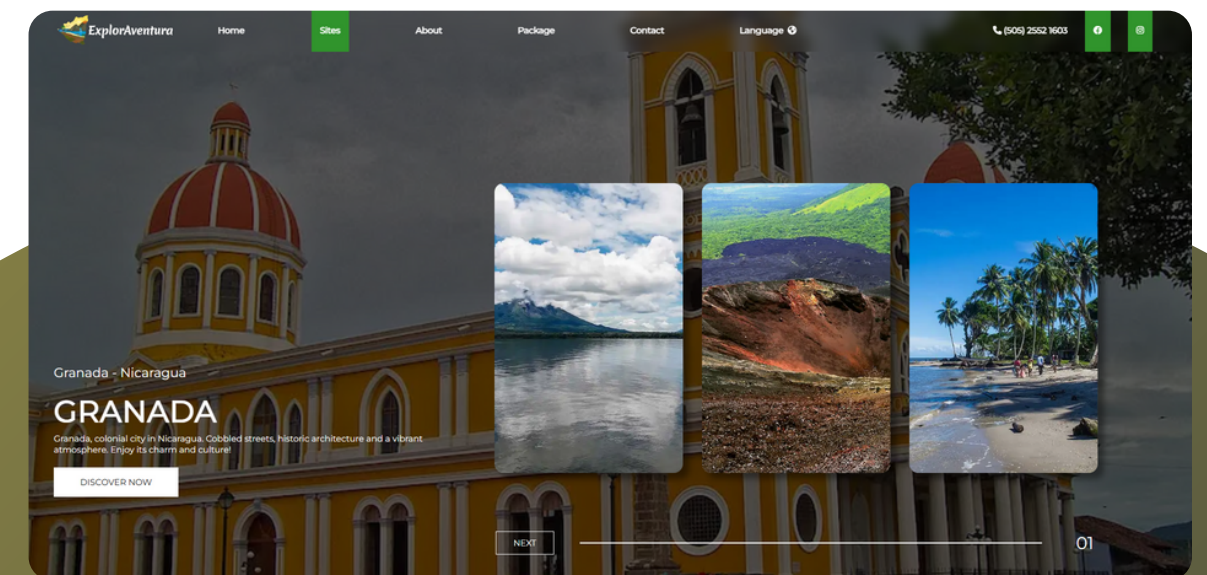
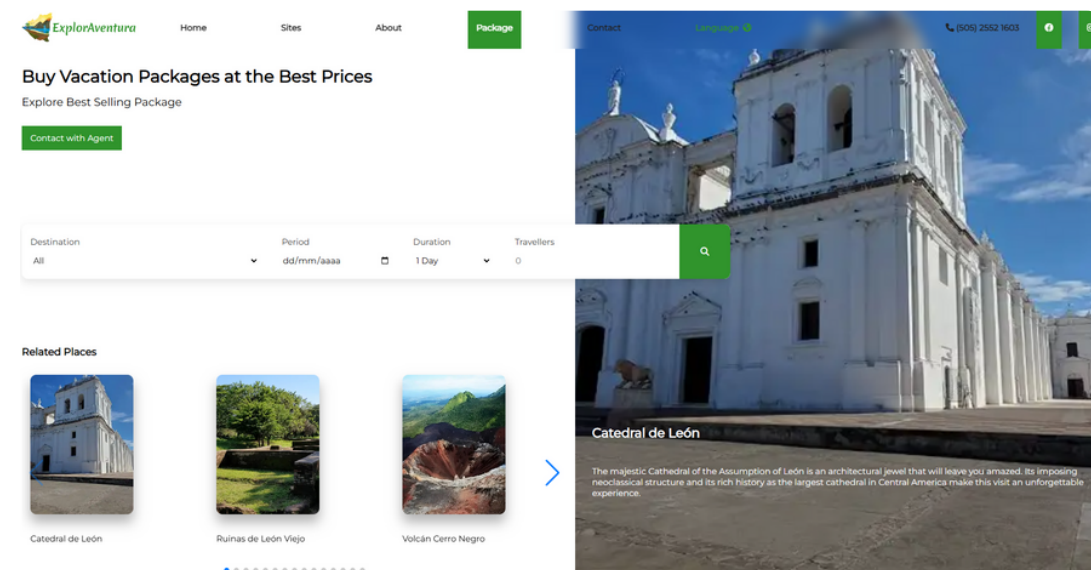
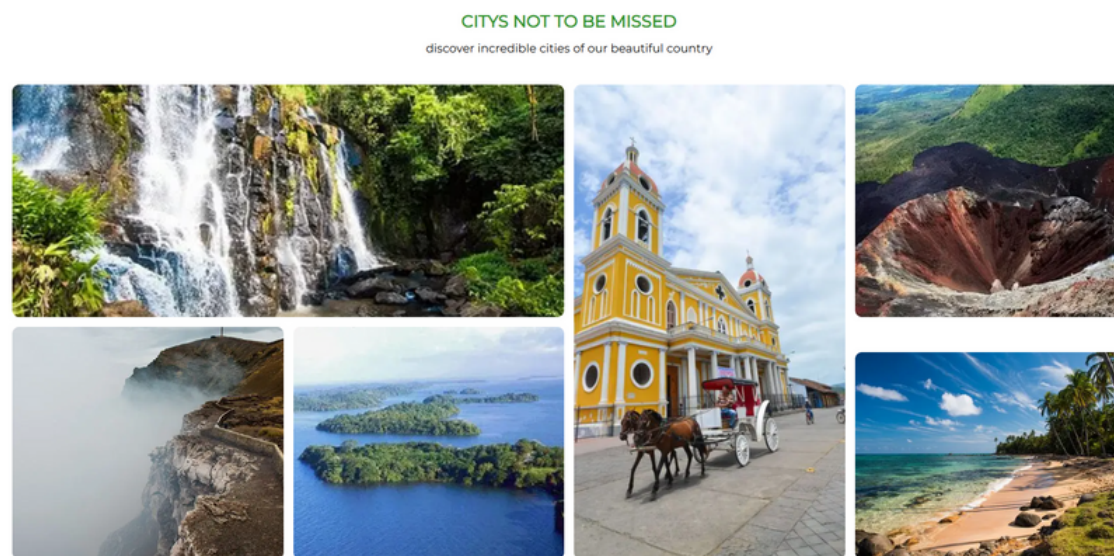
- Language: Kotlin (Jetpack Compose)
- Frameworks & Libraries: Dagger Hilt, Retrofit, Moshi, Gson, Material 3, UnitTest, MockServer, RXJava, DataStorage, Room, Lottie, Navigation Compose, MutableStates, OkHttp
- Architecture: MVI

WEB DEVELOPMENT

EXPLORAVENTURA TRAVEL



This project involved the development of a marketing-focused website designed to attract and convert visitors into customers. The platform facilitates the exploration of tourist destinations across Nicaragua and enables the direct booking of related travel services.



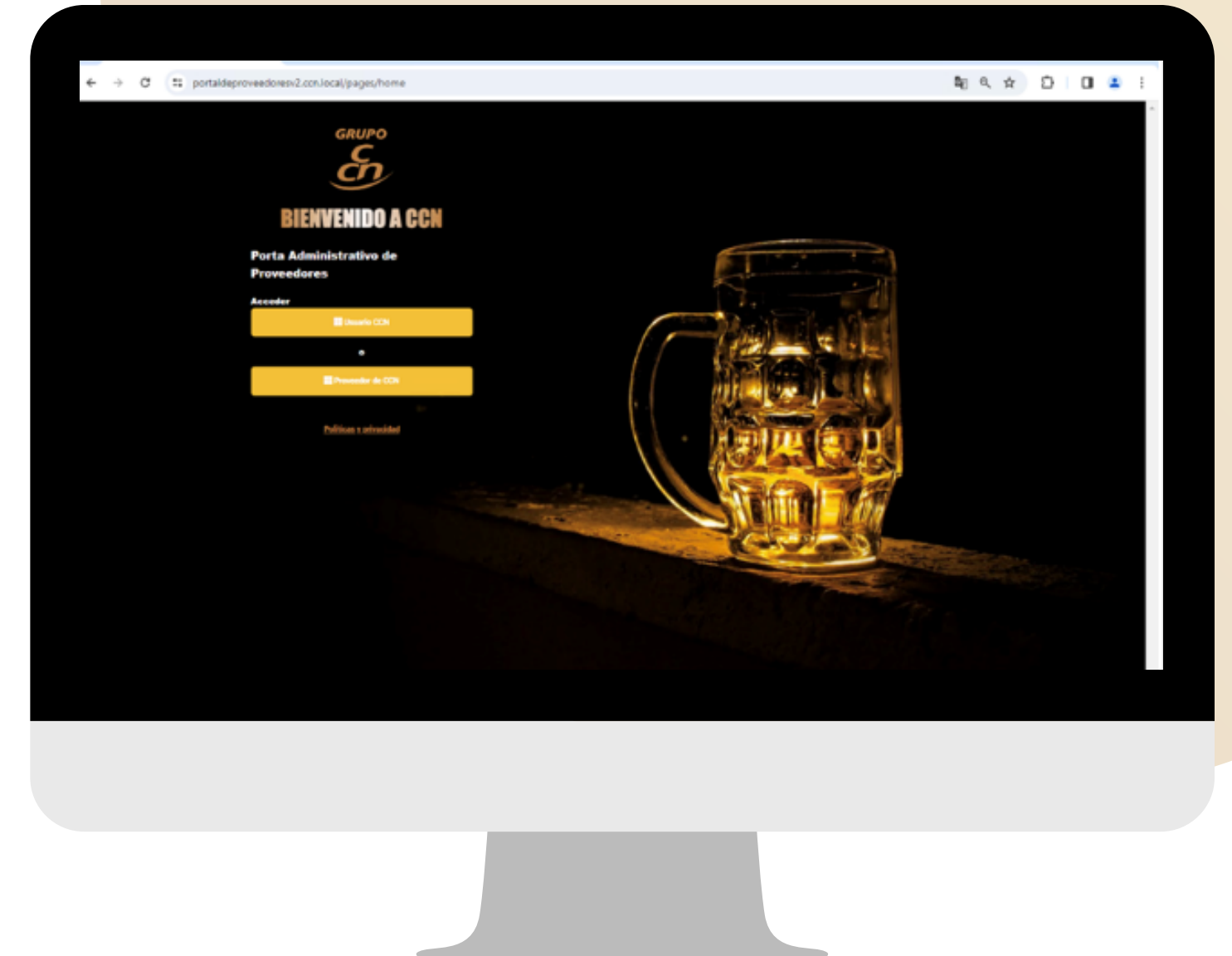
TECHNOLOGIES USED

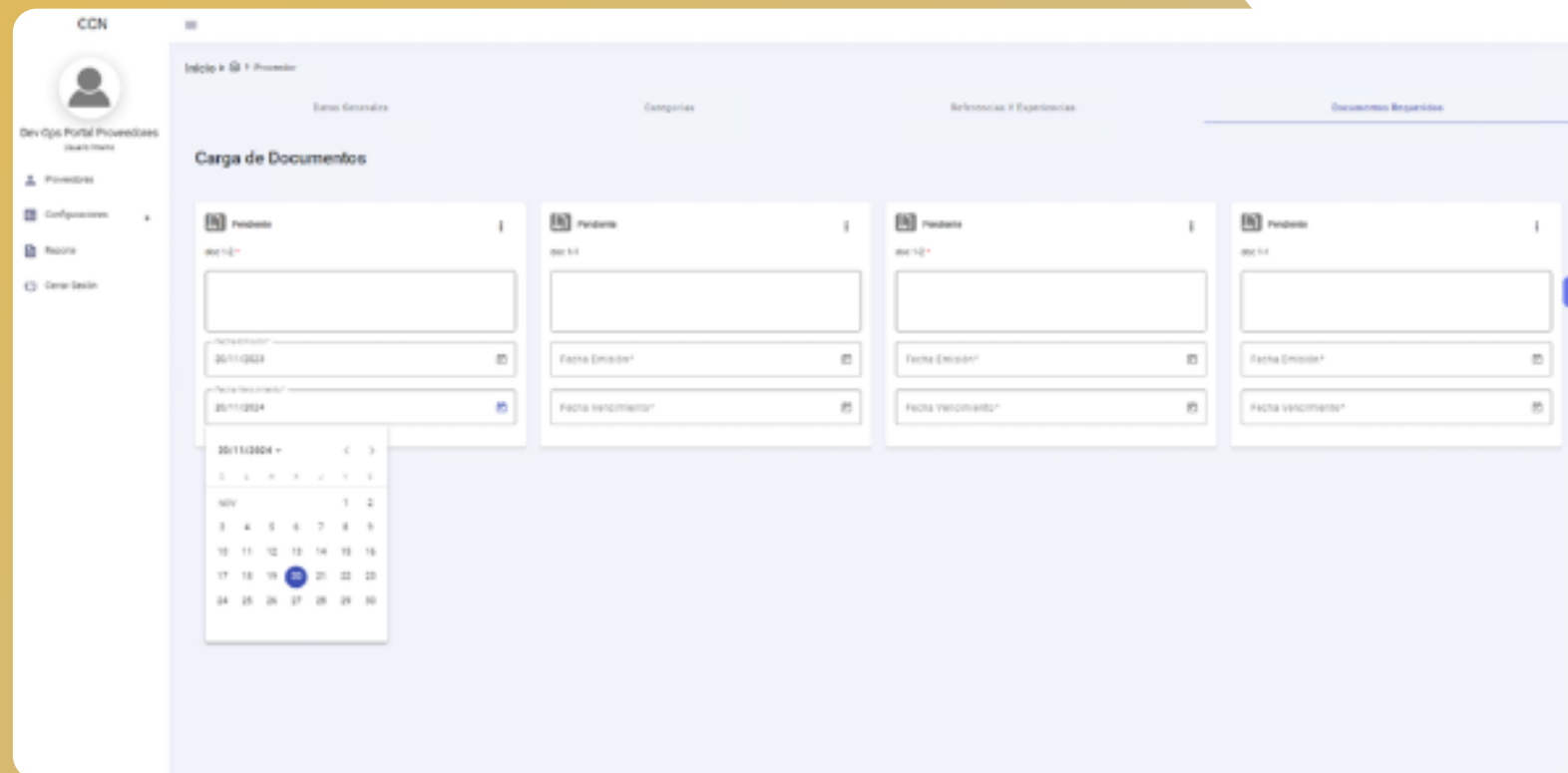
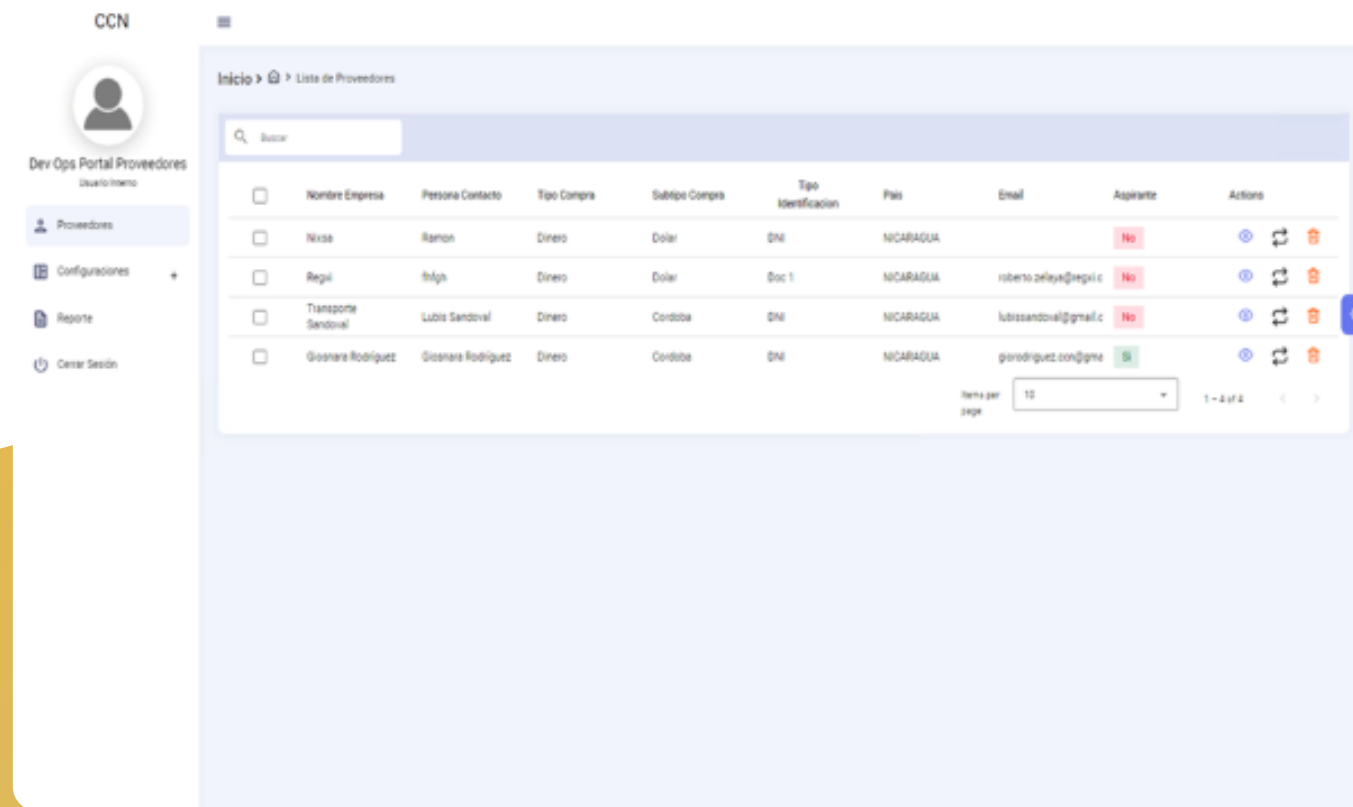
- **Framework:** React
- **Styling:** CSS3
- **Animation & Interactivity:** Framer Motion

WEB DEVELOPMENT

PROJECT CCN SUPPLIER PORTAL

This project involved the development of a comprehensive document management system for Grupo CCN. The solution was designed to centralize and automate the request, receipt, and storage of 2% non-withholding certificates from suppliers and creditors. By ensuring the immediate availability of these critical fiscal documents, the system guarantees compliance with DGI (Dirección General de Ingresos) and municipal regulations, thereby mitigating the risk of penalties during tax audits. This initiative significantly enhances operational efficiency, strengthens legal compliance, minimizes financial risk, and ensures organized and accessible document management.





TECHNICAL ARCHITECTURE & TECHNOLOGIES

Backend

- Architecture: Onion Architecture
- Framework: .NET Core 6
- Database: SQL Server 2022

Frontend

- Framework: Angular 17
- Architecture: Lazy-Loaded Modules
- UI Component Library: Angular Material
- Styling: SCSS

Integrations & Services

- Authentication: Active Directory, Azure B2C
- File Storage: Azure Blob Storage

WEB DEVELOPMENT

MEDSCHEDULERS

MedSchedulers is a full-featured Appointment CRM and Referral Management System designed for healthcare coordination between law firms, clinics, and patient care providers.

The platform streamlines the full referral lifecycle — from appointment scheduling to patient feedback, clinic performance reporting, and marketing analytics — within a secure, scalable web environment.

Core Objectives

- Provide a centralized system to manage referrals, appointments, and follow-ups between multiple organizations.
- Improve operational visibility through real-time dashboards and activity tracking.
- Ensure high data integrity and accountability with interaction logging, audit trails, and inactivity reports.
- Deliver a scalable and modular backend that supports continuous feature expansion without performance degradation.





Login

☐ Administrator ☐ Scheduler ☐ SA

Email

Password

Login

TECHNOLOGY STACK

Backend

- **C# / .NET 8 (ASP.NET Core Web API):** RESTful architecture with clean separation of controllers, services, and models.
- **Entity Framework Core:** Used for ORM mapping with optimized LINQ queries, caching, and eager loading strategies.
- **SQL Server:** Primary data store with normalized schema and custom indexing for referral workflows.
- **AutoMapper + DTO ViewModels:** Efficient projection of complex relationships (e.g., referrals joined with patients, clinics, attorneys).
- **In-memory caching** for lookup data (e.g., MedicalProviders, RatingOptions).

Frontend

- **Angular (TypeScript)** — dynamic UI with modular services for referrals, users, and reports.
- **RxJS Observables + Promises** for async API handling.
- **Bootstrap / Material UI** — responsive interface for agents, administrators, and marketers.
- **FileSaver.js** for CSV/Excel downloads from API responses.

Infrastructure

- **Authentication & Authorization** via JWT and role-based permissions.
- **Logging & Error Handling** integrated into middleware and global exception filters.

WEB DEVELOPMENT

PICKMNICA

The application is designed to manage a competitive college football picks game, allowing registered users to make weekly predictions on game outcomes. It tracks scores based on betting-style line spreads and calculates winnings or standings across a season.

Backend API

- ASP.NET Core Web API (C#)
- ORM Entity Framework Core
- Database SQL Server
- External API CollegeFootballData API
- Auth Role-based Authorization (JWT Bearer Token)

Frontend

- Angular
- Bootstrap





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