Digitalizing Your Furniture Business: A Brainnova Solution

Welcome to Brainnova, where we specialize in crafting innovative technological solutions to enhance business processes. We are excited to present our comprehensive solution designed to revolutionize your furniture store's operations, moving from physical records to a fully digital, centralized system.

Our robust application, built on a powerful relational database, offers a complete view of information across all your branches, ensuring efficiency, accuracy, and scalability for future growth.

Addressing Your Business Needs

Problem Statement

Your furniture store currently relies on physical records, leading to fragmented information and operational inefficiencies. You need a unified, digital system to manage inventory, sales, customers, employees, and branches effectively.

Our Solution

Brainnova has developed a robust, PostgreSQL-based database application. This solution centralizes all your operational data, providing real-time insights and automating key processes to streamline your business.

Core System Functionalities

🏷 **Detailed Item Management**

Track barcode, name, sale/purchase price, stock, photos, and unique category for each item.

🚚 **Supplier Integration**

Manage multiple suppliers per item, including start date, RFC, business name, address, phone, and payment account.
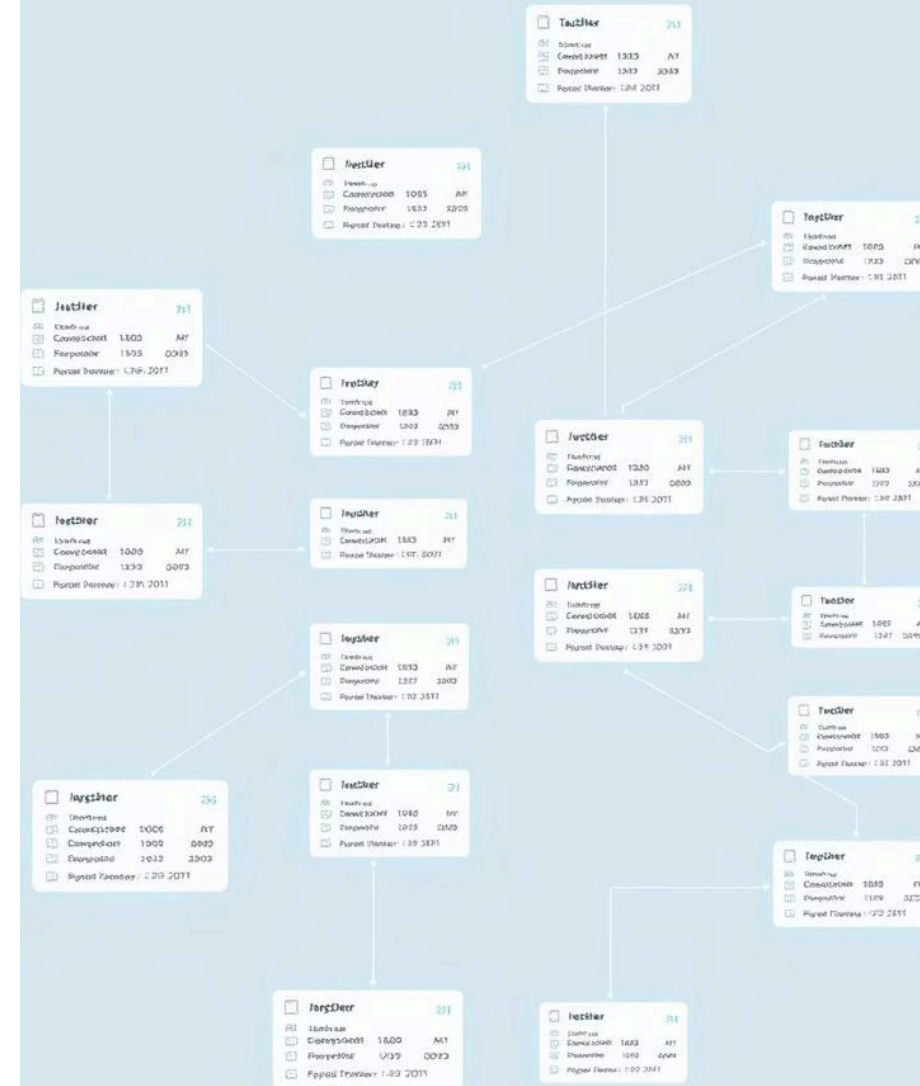
🧾 **Comprehensive Sales Control**

Record sales with custom folios (e.g., MBL-001), itemized breakdowns, stock validation, and assigned sales/cashier personnel.

👤 **Customer & Employee Management**

Track customer data for invoicing and loyalty, and manage employees with unique IDs, supervisors, roles, and branch assignments.

Ensuring Data Integrity and Automation

Automated Updates

Triggers and functions automatically update sales totals and quantities when items are added.

Stock Validation

Real-time checks ensure item availability and alert for low stock (below 3 units).

Automated Sales Tickets

System generates "sales ticket" views with random invoice folios.

Organizational Hierarchy

Easily retrieve full organizational hierarchy for any employee.

Our solution leverages PostgreSQL's advanced features, including triggers and PL/pgSQL functions, to ensure data consistency, automate critical processes, and provide seamless operational flow. We also implemented a strategic index on the item name for faster searches, enhancing user experience.

Our Development Approach

Requirements Analysis

Thorough understanding of your business needs and objectives.

Database Design

Conceptual (ERD) and logical (Relational Model) design for optimal structure.

PostgreSQL Implementation

Creation of tables, relationships, indexes, functions, triggers, and views.
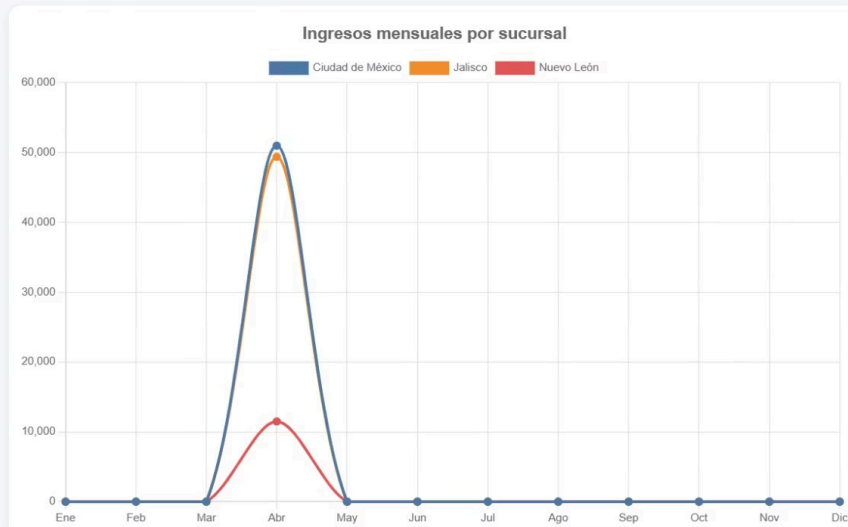
Dashboard Development

Building interactive visualizations for key business insights.

Our team at Brainnova followed a structured development methodology to ensure a robust and tailored solution. This systematic approach guarantees that every aspect of your requirements is met with precision and efficiency.
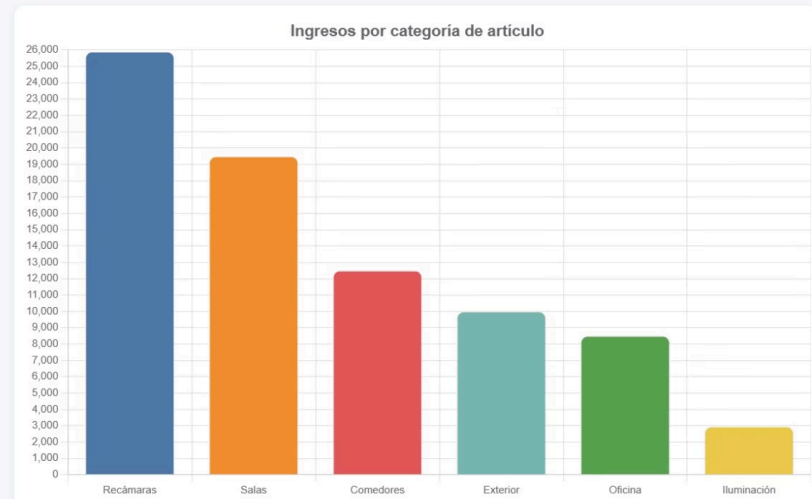
Made with GAMMA

Visualizing Your Business Performance

Our interactive dashboard provides crucial insights for informed decision-making, accessible from anywhere with our cloud-based Heroku deployment.

1. Ingresos Mensuales por Sucursal (2025)

2. Ingresos por Categoría de Artículo

The dashboard includes key visualizations such as total monthly revenue per branch for a given year, allowing you to analyze sales distribution and identify top-performing locations. Additionally, we provide a second relevant metric, like "Most Sold Items," to help you identify popular products and optimize inventory and promotion strategies.

Our Cloud Infrastructure: Heroku

Scalability

Heroku provides a flexible platform that can scale with your business growth, handling increasing data and user loads seamlessly.

Reliability

Leveraging Heroku ensures high availability and robust performance for your database, minimizing downtime and maximizing accessibility.

Accessibility

With your database hosted in the cloud, you can access your critical business data and dashboard from anywhere, at any time, on any device.

We have deployed your entire database solution on Heroku, a leading cloud platform. This strategic choice offers significant advantages, ensuring your system is not only powerful but also highly scalable, reliable, and accessible. This means your data is secure and always available, supporting your operations without interruption.

Why Choose Brainnova?

1

Integrated Solution

A complete system from database design to interactive dashboards.

2

Expert Team

Experienced professionals dedicated to your project's success.

3

Future-Proof

Scalable architecture ready for your business's future growth.

Brainnova offers more than just a software solution; we provide a partnership committed to your success. Our comprehensive approach, from meticulous design to robust implementation and intuitive visualization, ensures your furniture business is equipped for the digital age. We are confident this solution will drive efficiency, enhance decision-making, and support your continued growth.