# BACKEND PRESENTATION REPORT

**Project:** Inventory and Sales System – MADECOR
**Presentation Date:** 18-01-2025
**Development Team:** "Three Musketeers"
**Client Attendees:** Cesar Iván Pabón Portilla – General Manager of MADECOR

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## 1. Introduction

This report summarizes the presentation of the backend system for MADECOR's inventory and sales software. During the meeting, a clear and simple explanation was provided on how the system manages data related to customers, products, sales, and reports. The client was given a general overview of how this system stores and organizes business information to facilitate daily operations. It was emphasized that the backend operates in the background, ensuring that all data is available when needed.

## 2. Presented Functionalities

The backend system is responsible for handling and organizing information automatically. Its key functions include:

1. **User Management:** Stores and manages data for registered customers and employees.
2. **Product Management:** Records available products, including their name, price, and stock quantity.
3. **Sales Management:** Saves completed purchases and updates inventory in real time.
4. **Report Generation:** Provides detailed information on sales, products, customers, and employees.
5. **Security and Control:** Ensures that only authorized users can access and modify stored information.

| Category | Method | Endpoint |
|---|---|---|
| **Autenticación** | POST | /madecor/login |
| | POST | /madecor/google-login |
| | POST | /madecor/register |
| **Estadísticas** | GET | /madecor/estadisticas |
| **Reportes** | GET | /madecor/reporte/ventas |
| | GET | /madecor/reporte/detalles-ventas |
| | GET | /madecor/reporte/productos |
| | GET | /madecor/reporte/clientes |
| | GET | /madecor/reporte/trabajadores |
| **Clientes** | POST | /madecor/clientes (Crear cliente) |
| | GET | /madecor/clientes (Obtener todos los clientes) |
| | GET | /madecor/clientes/:cedula (Obtener cliente por cédula) |
| | PUT | /madecor/clientes/:cedula (Actualizar cliente) |

| | PATCH | /madecor/clientes/:cedula/estado (Actualizar estado del cliente) |
|---|---|---|
| | DELETE | /madecor/clientes/:cedula (Eliminar cliente) |
| **Permisos** | POST | /madecor/permisos (Crear permiso) |
| | GET | /madecor/permisos (Obtener todos los permisos) |
| | GET | /madecor/permisos/:id (Obtener permiso por ID) |
| | PUT | /madecor/permisos/:id (Actualizar permiso) |
| | PATCH | /madecor/permisos/:id/estado (Actualizar estado del permiso) |
| | DELETE | /madecor/permisos/:id (Eliminar permiso) |
| **Productos** | POST | /madecor/productos (Crear producto) |
| | GET | /madecor/productos (Obtener todos los productos) |
| | GET | /madecor/productos/:id (Obtener producto por ID) |
| | PUT | /madecor/productos/:id (Actualizar producto) |
| | PATCH | /madecor/productos/:id/estado (Actualizar estado del producto) |
| | DELETE | /madecor/productos/:id (Eliminar producto) |
| **Trabajadores** | POST | /madecor/trabajadores (Crear trabajador) |
| | GET | /madecor/trabajadores (Obtener todos los trabajadores) |
| | GET | /madecor/trabajadores/:cedula (Obtener trabajador por cédula) |
| | PUT | /madecor/trabajadores/:cedula (Actualizar trabajador) |
| | PATCH | /madecor/trabajadores/:cedula/estado (Actualizar estado del trabajador) |
| | DELETE | /madecor/trabajadores/:cedula (Eliminar trabajador) |
| **Ventas** | POST | /madecor/ventas (Crear venta) |
| | GET | /madecor/ventas (Obtener todas las ventas) |
| | GET | /madecor/ventas/:id (Obtener venta por ID) |
| | PUT | /madecor/ventas/:id (Actualizar venta) |
| | DELETE | /madecor/ventas/:id (Eliminar venta) |

# 3. Client Feedback

During the presentation, the client expressed that the system will allow better control over business information. Additionally, the following observations were made:

1. **Clarity in Data Organization:**
   - The client highlighted the importance of making data easy to understand and access in reports, especially sales and stock information.
2. **Review of Stored Data:**
   - Questions were raised about what specific customer and employee data will be stored in the system and how its security will be ensured.
3. **Report Structure:**
   - The client requested confirmation that reports will display relevant information concisely, without unnecessary data that might make them harder to read.
4. **Inventory Updates:**
   - The client appreciated that the system will automatically update stock levels whenever a sale is made.

# 4. Conclusion and Next Steps

The meeting helped the client gain a better understanding of how the system will manage business information. The following actions were agreed upon:

- Confirm with the client what specific data will be stored about customers and employees.
- Ensure that generated reports contain relevant information in a clear and organized manner.
- Validate that inventory updates function correctly whenever a sale is registered.

A follow-up meeting will be scheduled to review progress and continue system implementation.

*Development Team "Three Musketeers"*

**Evidence:**