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Introduction

We are building one website that brings everyone in the clothing business together. It connects factories, shops, and suppliers so they can find each other and work in one place instead of using many apps.

Problem definition

Right now, people in the clothing industry struggle because:

- They have to use Facebook, WhatsApp, and different websites to talk to each other, which is messy.
- Facebook is too crowded and “noisy,” so it is hard to find the right business partners.
- There is no single system made just for clothing.

Literature review

Currently, people try to solve this by using:

- Facebook & Instagram: But reach is up and down, and search is not accurate.
- WhatsApp: Good for chatting, but hard to organize orders.
- Random Websites: Users have to jump between different sites to get things done.

Objectives

- One Place: To put factories, shops, and suppliers in a single location.
- Better Search: To make it easy to find exactly what you need (like specific fabrics or factories).
- Professionalism: To give every shop and factory a professional look.

Stakeholders

This system is for anyone who makes or sells clothes:

- Clothing factories and small workshops.
- Clothing shops.
- Sellers of fabric and materials.
- Sellers of accessories (like zippers and buttons).

Constraints

Development requirements

Front-end

- HTML, CSS, Bootstrap

Backend

- API: Java, Spring Boot
- Database

Requirements

The system does three main things:

- Manager: It helps business owners manage their workers and money.
- Showcase: It acts like a catalog to show products to customers.
- Connector: It helps businesses find suppliers and partners easily.

Functional requirements

For the Owners (Owners Page):

- Dashboard: See sales, profits, and expenses clearly.
- Stock management.
- Add/Edit Products: Add products into the website with details (price - photos - description - sizes - materials - colors - quantity - expected shipping times).
- Choose the payment gateway
- A professional page that looks like a real brand.

For the Public (Owners, clients) (Storefront):

- Personal profile (Sign-up) necessary to continue the order process.
- Products: Show high-quality photos of clothes.
- Product Details: List the size, materials, the quantity you want, colors, and price.
- Shopping cart: Add/Delete products
- Payment system.
- Searching.

For the Superuser (Admin):

- View/interact with products and products details
- View the owners for the current products

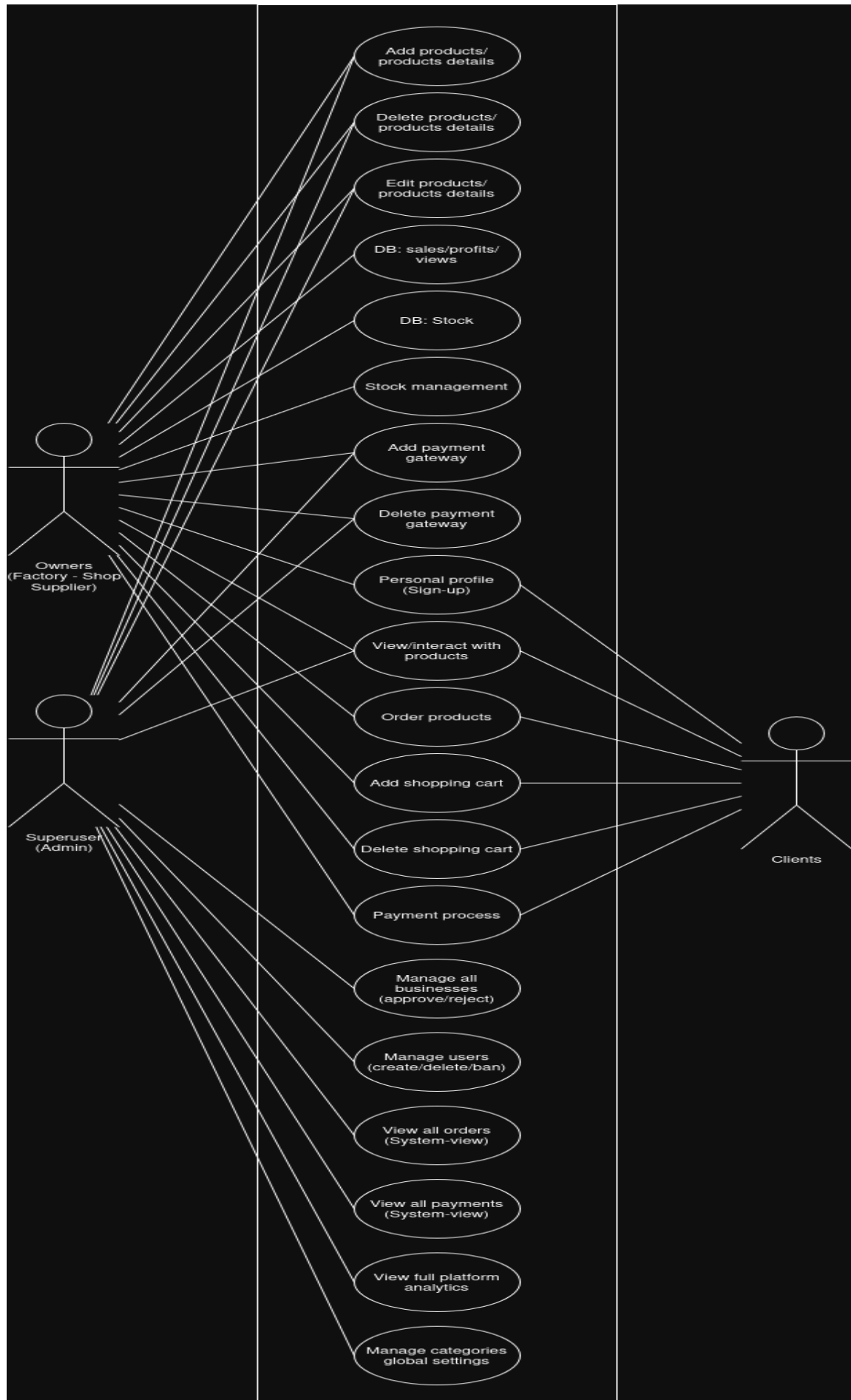
- Add/edit/delete products
- Manage users (create/delete/ban)
- Manage all businesses/categories
- Searching

Non-functional requirements

- Chat system
- Order tracking
- Filtering products
- Clear Visuals: The charts and data must be easy to read.
- Accuracy: The search tool must work perfect all the time.
- View all orders/payments (Admin)
- View all platform analytics (Admin)

Use case diagram

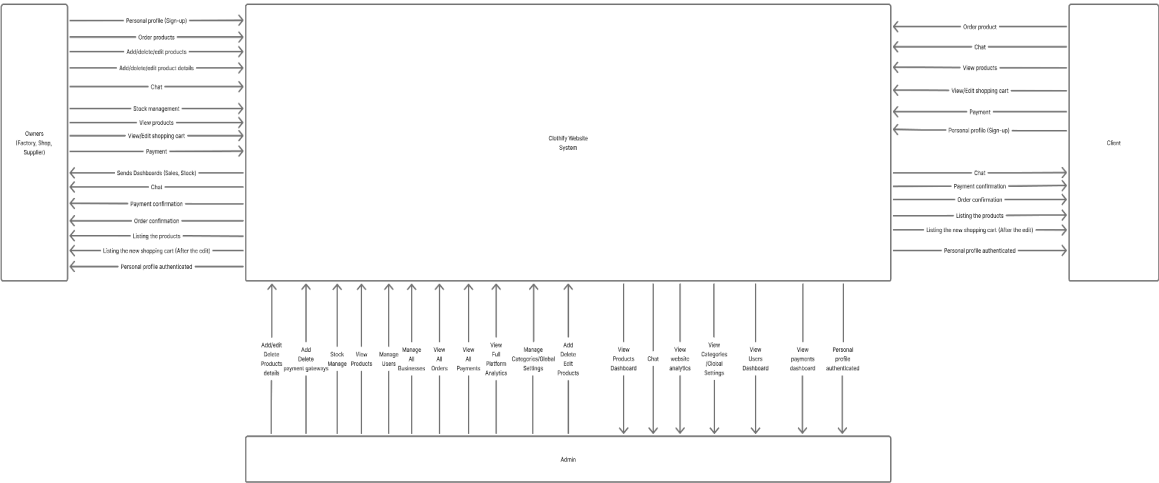
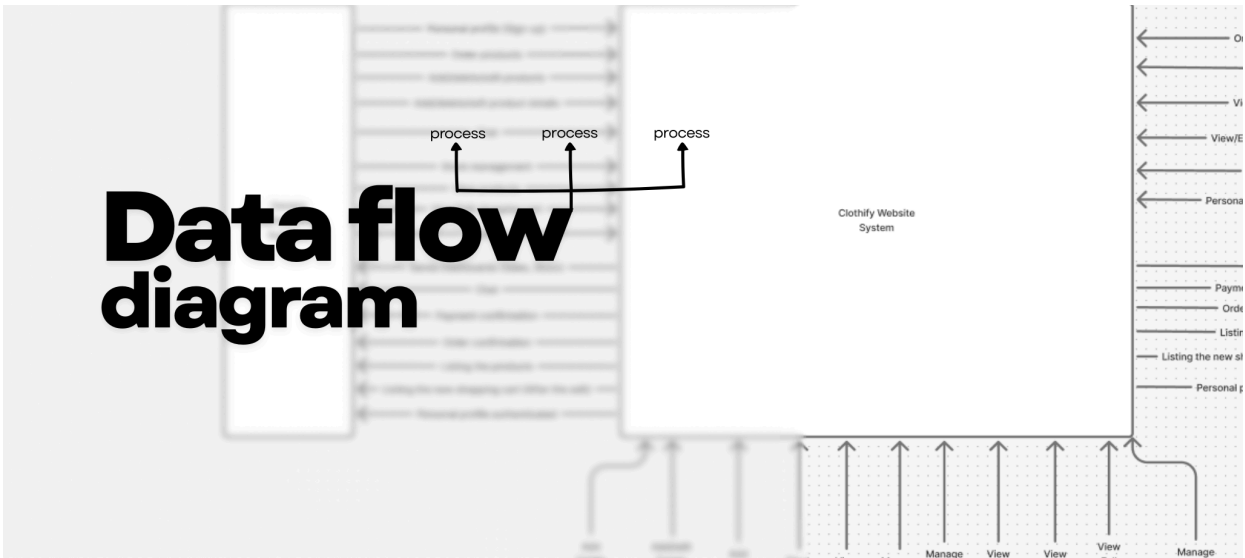




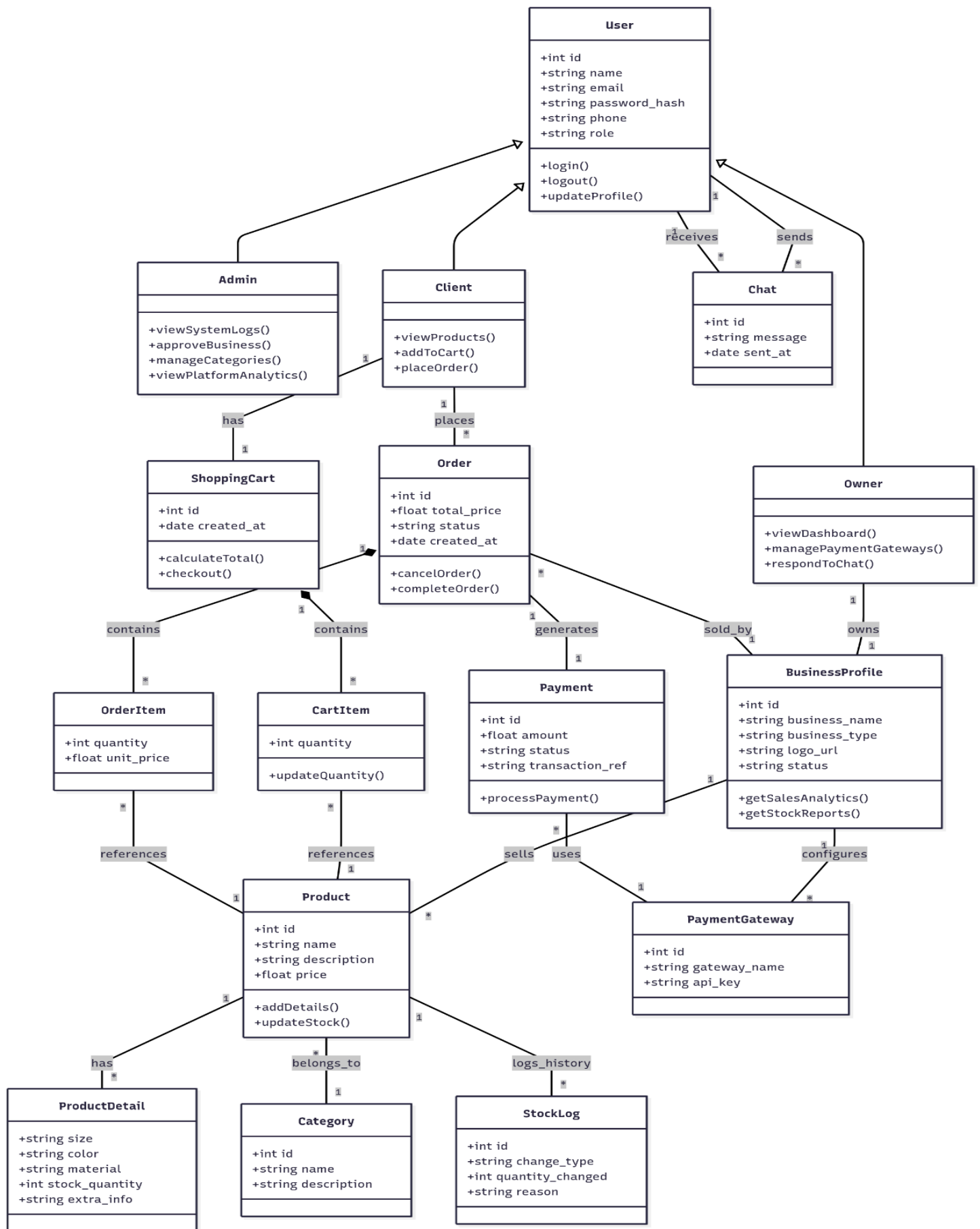
AP: Admin page | DB: Dashboard | OP: Owners page

Permissions	Owners	Clients	Admin
(OP) Add/delete/edit products	CAN	-	CAN
(OP) Add/delete/edit product details	CAN	-	CAN
(OP) Add/delete payment gateways	CAN	-	CAN
(OP) DB: sales/profits/views	CAN	-	CAN
(OP) DB: Stock	CAN	-	CAN
(OP) Stock management	CAN	-	CAN
Personal profile (Sign-up)	CAN	CAN	Admin is created manually
View/interact with products	CAN	CAN	CAN
Order products	CAN	CAN	-
Add/delete shopping cart	CAN	CAN	-
Payment	CAN	CAN	-
(AP) Manage users (create/delete/ban)	-	-	CAN
(AP) Manage all businesses (approve/reject)	-	-	CAN
(AP) View all orders (system-view)	-	-	CAN
(AP) View all payments (system-view)	-	-	CAN
(AP) View full platform analytics	-	-	CAN
(AP) Manage categories/global settings	-	-	CAN

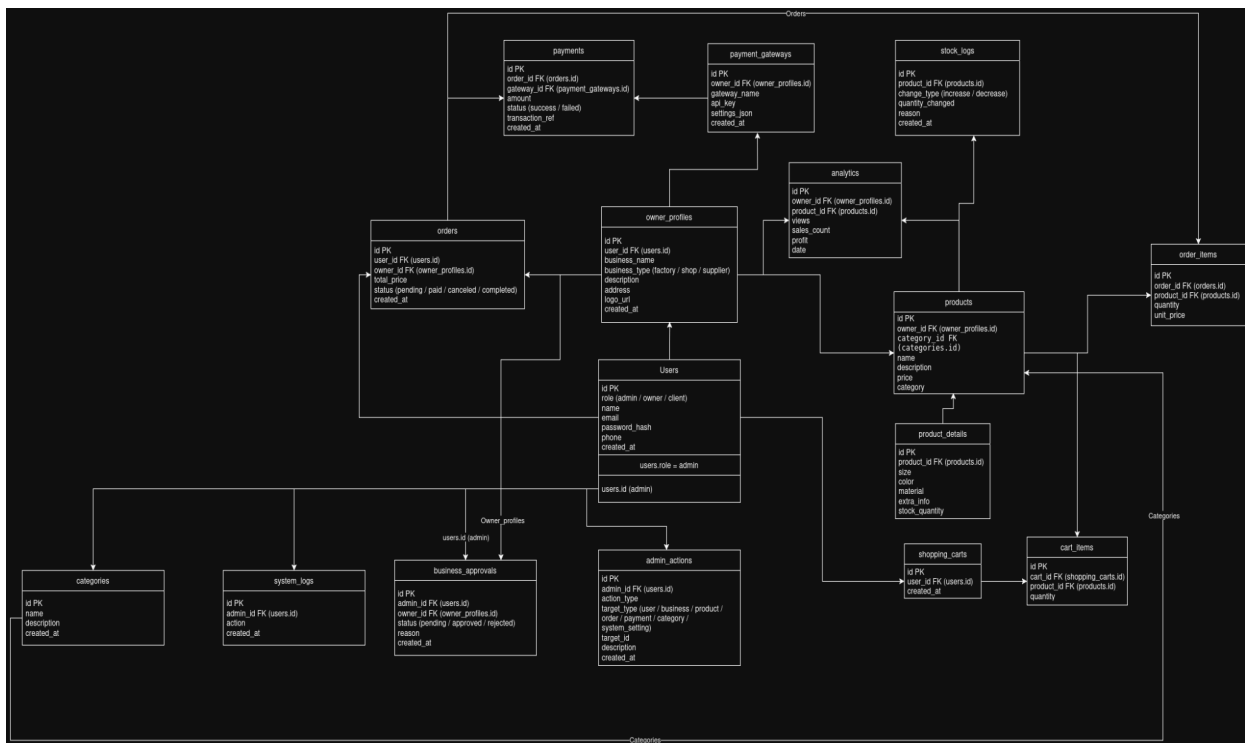
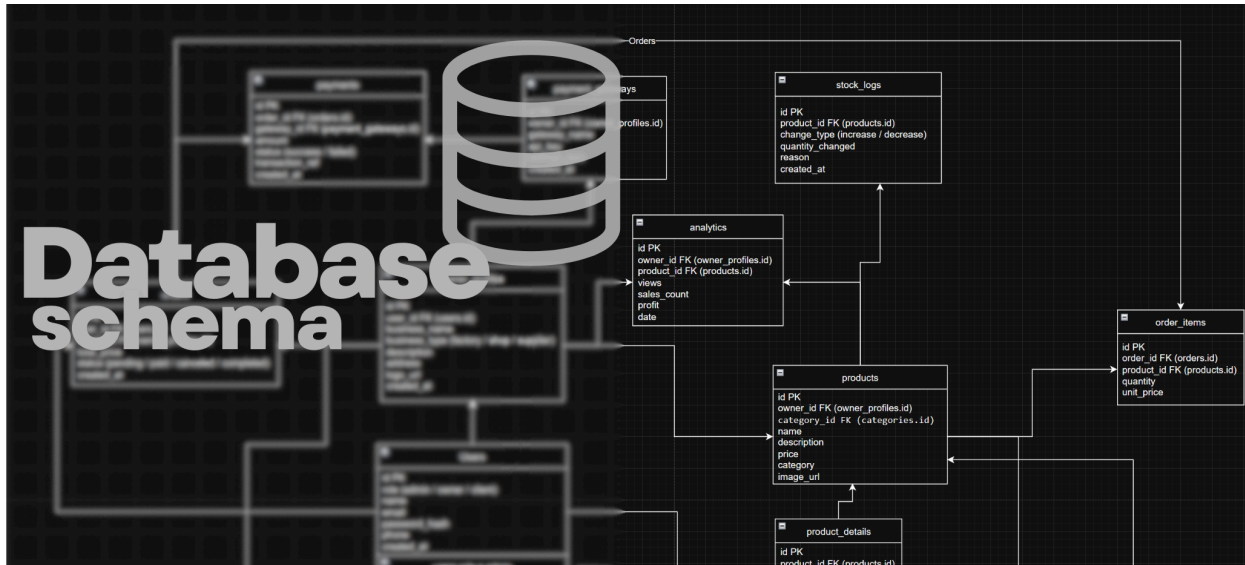
Data Flow Diagram (DFD)



Class diagram



Database schema



Conclusion

The final result of this project is a complete platform that delivers:

- Strong Management: A powerful system to manage your business from the inside.
- Professional Look: A way to showcase your products professionally.
- Complete Community: A full ecosystem that brings the whole clothing industry together.
- Better Search: A search tool that is highly accurate.
- One Home: A single place for everything related to garments.

References

Courses

- [System analysis diagrams](#)