# Software Requirements Specification

**for**

# Perfume Shop Web Application

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# Revision History

| Name | Date | Reason For Changes | Version |
|---|---|---|---|
| Ica Alexandra | 20.03.2017 | First Revision | 1 |
| | | | |

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to present a detailed description of the perfume shop web application. It will explain both the functional and non-functional features of the system, the external interfaces and what the system will do. For better understanding of specifications, there will, also, be provided: a use case diagram, a general activity diagram, class diagrams and presentation pages.

## 1.2 Product Scope

This application will be an online shopping system, which will provide an automated alternative for database management and online shopping. The system will be based on the client-server architecture.

More specifically, this application will allow a user to browse products or create an account and manage it, then view products and add them to a shopping cart. Besides this, an administrator can add, delete and change perfume details (apply discounts).

The benefits of this application include: ease of access (the user can see details about perfumes from any computer with Internet connection and purchase products online).

## 1.2 Intended Audience and Reading Suggestions

This document is intended for both the stakeholders and the developers of the system.

## 1.4 Definitions, Acronyms, and Abbreviations

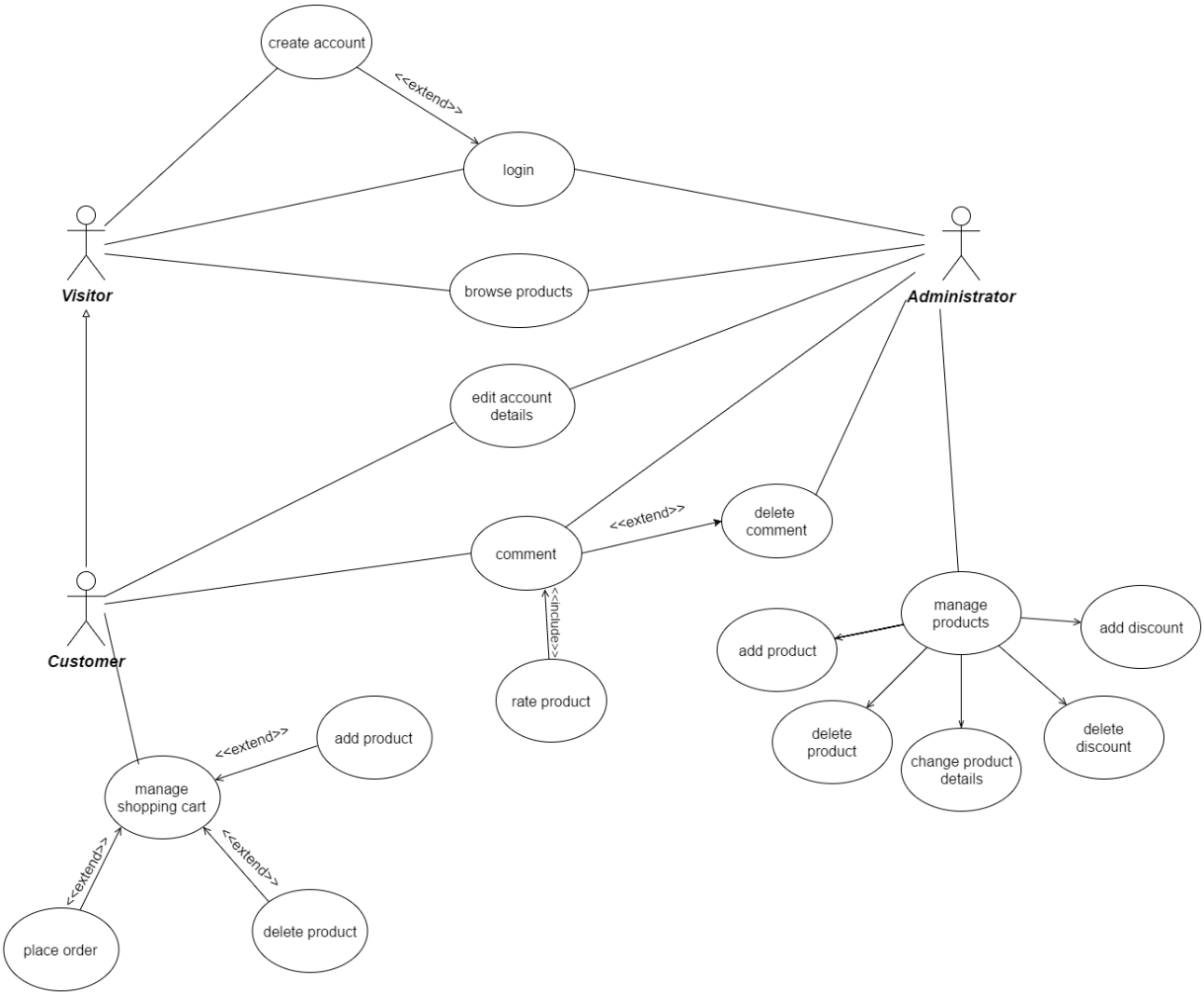
Not Applicable

## 1.5 References

# 2. Overall Description

## 2.1 Product Perspective

This application is a new, self-contained product which will allow administrators to manage the database. Regular user permissions will include browsing products and placing orders.




## 2.2 Product Functions

The main functionalities of the application will be:

- Log in
- Access to the perfume database
- Managing the database (administrators only)
- Managing account details
- Shopping cart
- Leave comments about products
- Rate perfumes

## 2.3 User Classes and Characteristics

Users of the application will be persons who have an interest in fragrances, from any social group. There will probably be three user-classes (on the client side): people who want affordable products, the segment looking for brands and a limited clientele, interested in niche perfumery. The shop inventory will be maintained up to date by an administrator.

## 2.4 Operating Environment

The application supports the following web browsers:  Google Chrome and Mozilla FF.
IDE: Microsoft Visual Studio

## 2.5 Design and Implementation Constraints

The application will be displayed only in English.
Backend language: C#
Frontend: HTML, CSS, JavaScript
Framework: ASP MVC
Technology: .NET

The application will be launched as freeware.

## 2.6 User Documentation

System Requirements Specifications document, System Design Specifications document and testing documents.

## 2.7 Assumptions and Dependencies

The main prerequisites include: the user having an active Internet connection and accessing the application only from compatible browsers.

When filling in a form, the users must respect the formatting options of each field, otherwise error/warning messages will be displayed and the action won`t be completed.

# 3. External Interface Requirements

## 3.1 User Interfaces

The application general layout will contain:

- The header which displays:
  - the logo
  - a search bar
- The body, which displays content
- The footer with:
  - Contact
  - Delivery methods
  - Copyright

The user interface will contain:

- A menu bar (which allows gender-based selection of perfumes)
- A list with perfumes (with prices and pictures)
- The shopping cart (only for authenticated users)

The administrator interface will contain:

- A list with products and options for each of them
- Forms for changing product details or adding new perfumes to the database

The shopping cart interface will contain:

- A list with added products (with options for each item) and the total value of the order
- Delivery taxes
- “Back to shopping” and “Place order” buttons

## 3.2 Hardware Interfaces

Not applicable

## 3.3 Software Interfaces

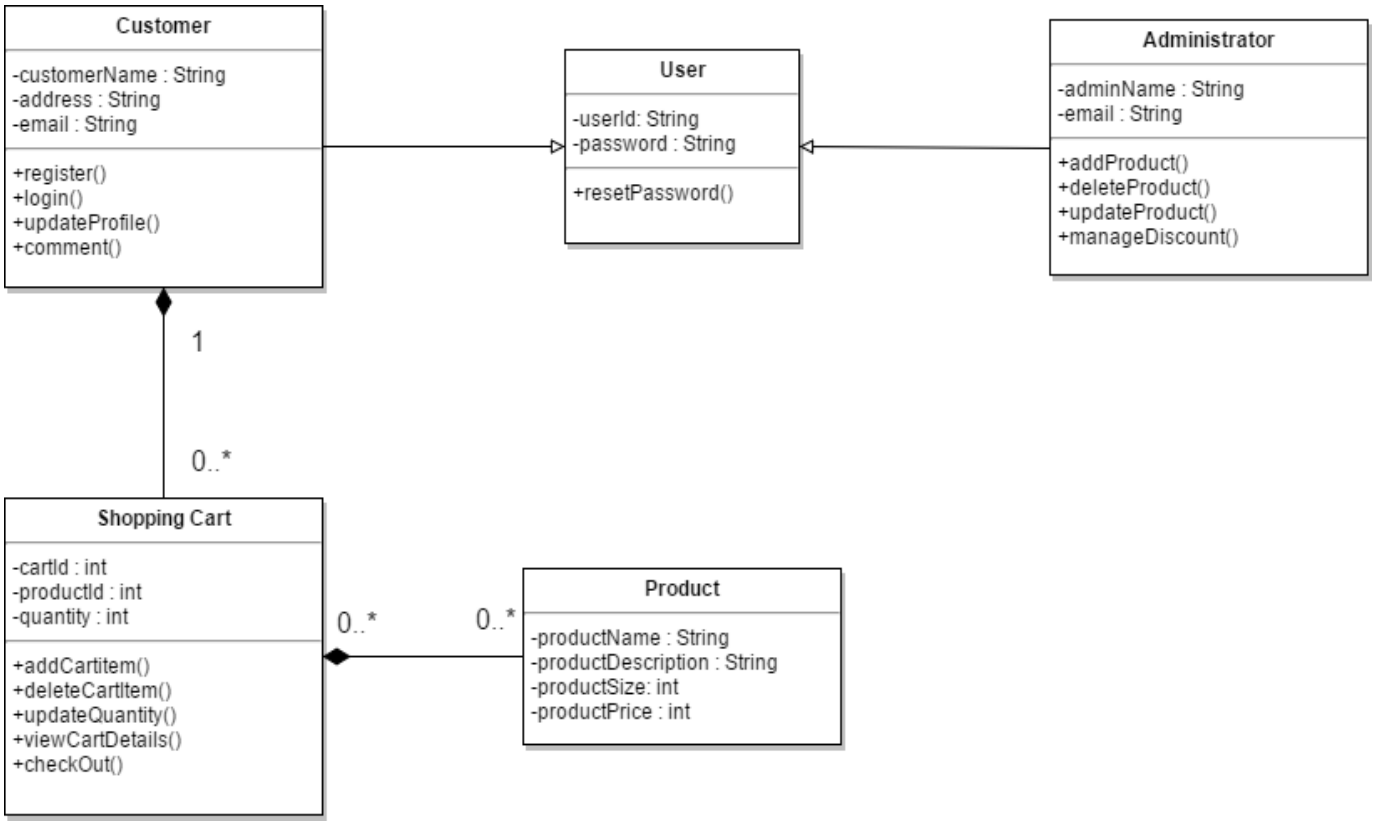
The application will be connected to a database which stores details about perfumes, as well as user accounts.

There will be a communication interface between the server and the database (functions to read from and write into the database) and another one between the server and the client application (get input text and display data).

## 3.4 Communications Interfaces

Transfer protocol used: HTTP.

# 4. System Features




4.1.1 Description and Priority

*4.1.2* Stimulus/Response Sequences

4.1.3 Functional Requirements

## Functional requirements:

- **Log in**
  The user can log into an existing account by introducing valid email and password. There will also be “Forgot password” and create new account functionalities.

- **Access to the perfume database**
  The user can search for a specific perfume in the database (by name or brand). The main menu will have sections for perfumes according to gender (women, men, gender bender), niche and discounts. On each of these pages there will be a search by brand option.
  The user will be able to order the listed products by price and name and see details about any perfume from the database. In order to view the correct price, the size has to be selected for the product in case. Only logged in users can add products to their shopping cart.

- **Managing the database (administrators only)**
  Administrators will be able to add and delete perfumes from database, apply or delete price discounts and edit product details (such as name or picture).

- **Managing account details**
  Both regular users and administrators will be allowed to change their personal account details.

- **Shopping cart**
  Authenticated users will be able to add products to their shopping cart, see the content of the cart, delete products from the cart, change quantity (number of items of the same kind) or proceed to finalize order. Finally, they will be able to place orders.

- **Leave comments about products**
  Any user will have the possibility to submit comments on a perfume`s page. Deletion will only be performed by administrators.

- **Rate perfumes**
  Logged in users will be able to rate products.

# 5. Other Nonfunctional Requirements

## 5.1 Performance Requirements

## *5*.2 Safety Requirements

Not applicable

## 5.3 Security Requirements

Personal data is stored in the database (and encrypted).

## 5.4 Software Quality Attributes

**1. Reliability**: personal information (such as address) will be kept safe. The transactions, which will have delayed results (shipped days or weeks later), will be safe procedures.
**2. Usability**: The application will have a broad customer base, therefore using it shall be as simple as shopping at a store. It will meet the customers` need to be able to use the web site without training. The software will flow according to the users' expectations, offer only needed information (when needed.
**3. Security**: Customer data and other electronic information will be handled as securely as possible.
**4. Availability**: The application will have “24/7” availability, and it will be operational every day of the year. Availability means that the website will be and running 24/7/365 and it will be available when accessed by diverse compatible browsers.

## 5.5 Business Rules

**Disclaimer** Sellers should make sure that their items are authentic before listing them on the website. Sellers may not disclaim knowledge of, or responsibility for, the authenticity or legality of the items they offer in their listings. If a seller cannot verify the authenticity of an item, it shouldn't be listed on the website.
There is no warranty or representation, expressed or implied, as to the accuracy, completeness or appropriateness of the information on this website. Therefore the user must assume full responsibility for using the information and agree that developers are not responsible or liable for any claim, loss, damage or inconvenience caused as a result of reliance on such information.
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# 6. Other Requirements

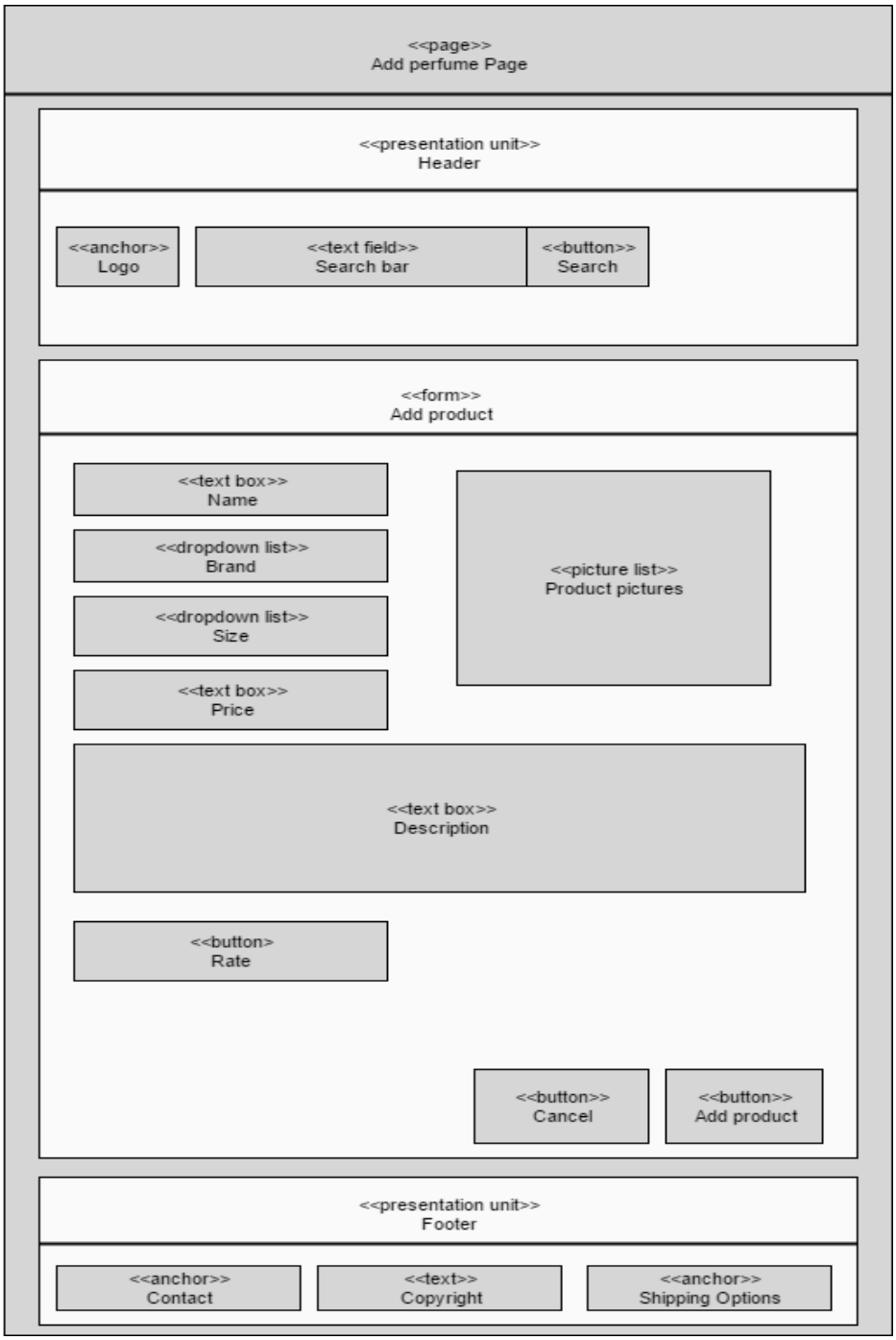
# Appendix A: Glossary

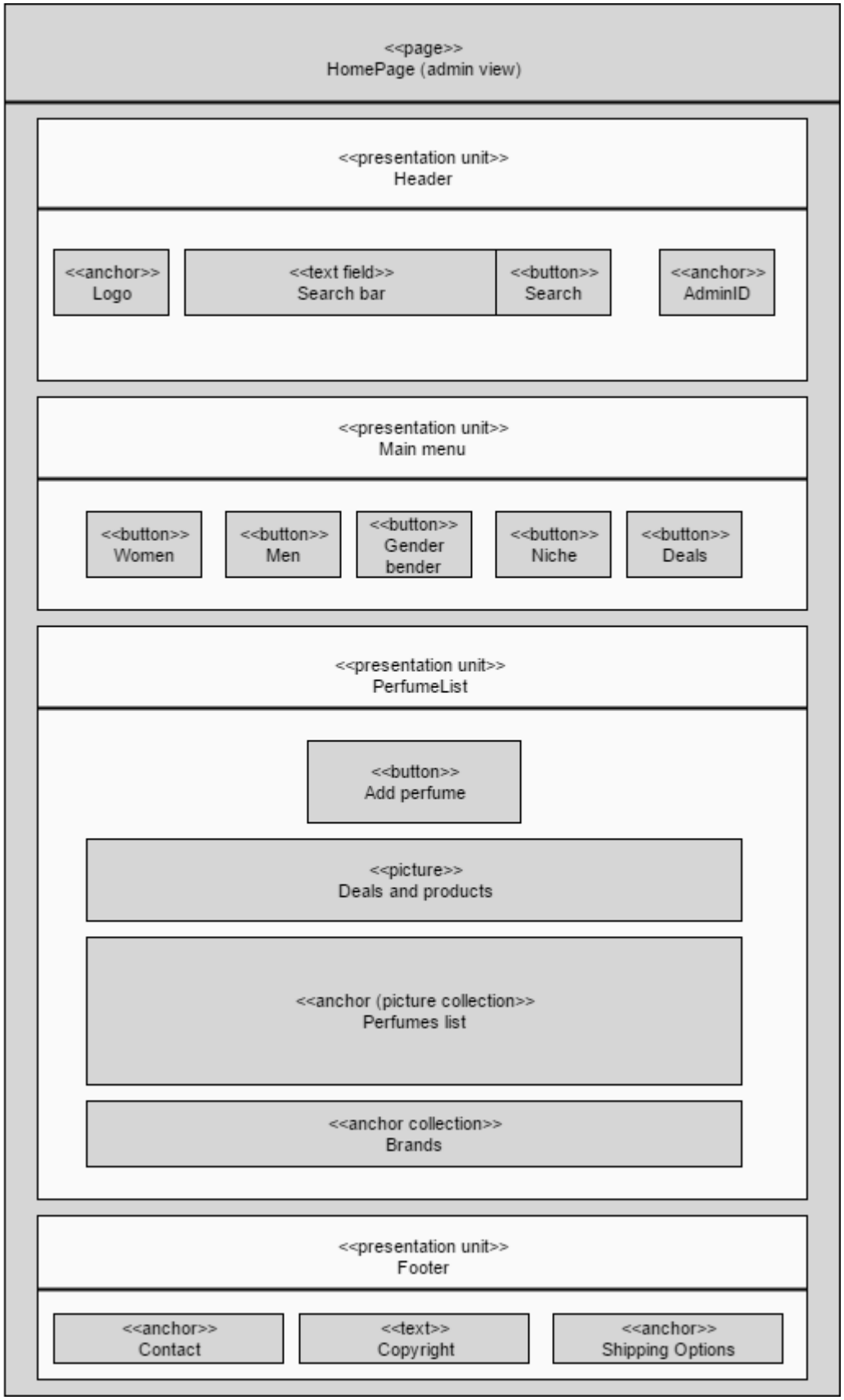
# Appendix B: Analysis Models

The strategy adopted for this project is the Agile approach

# Appendix C: To Be Determined List

# Presentation Diagrams

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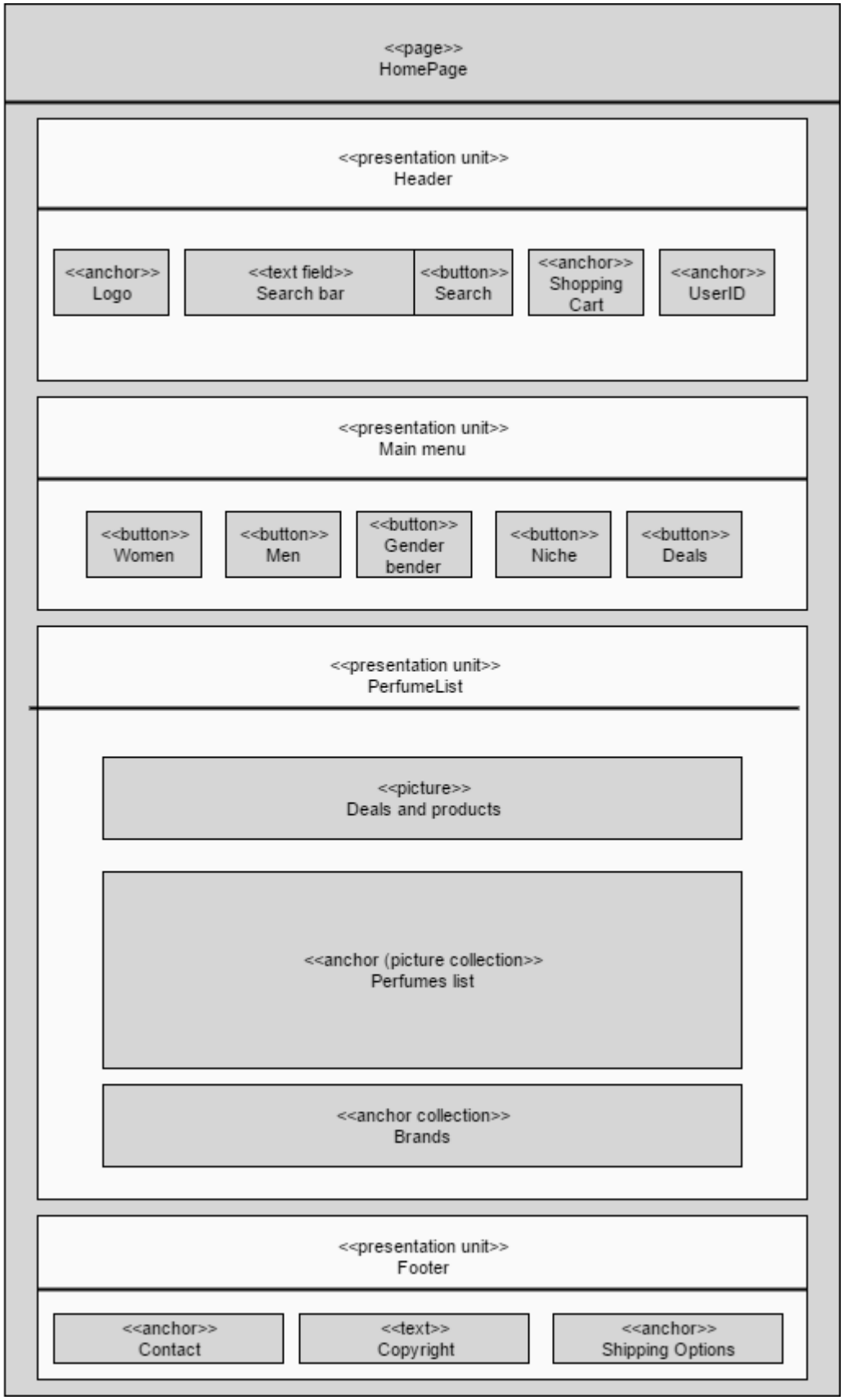
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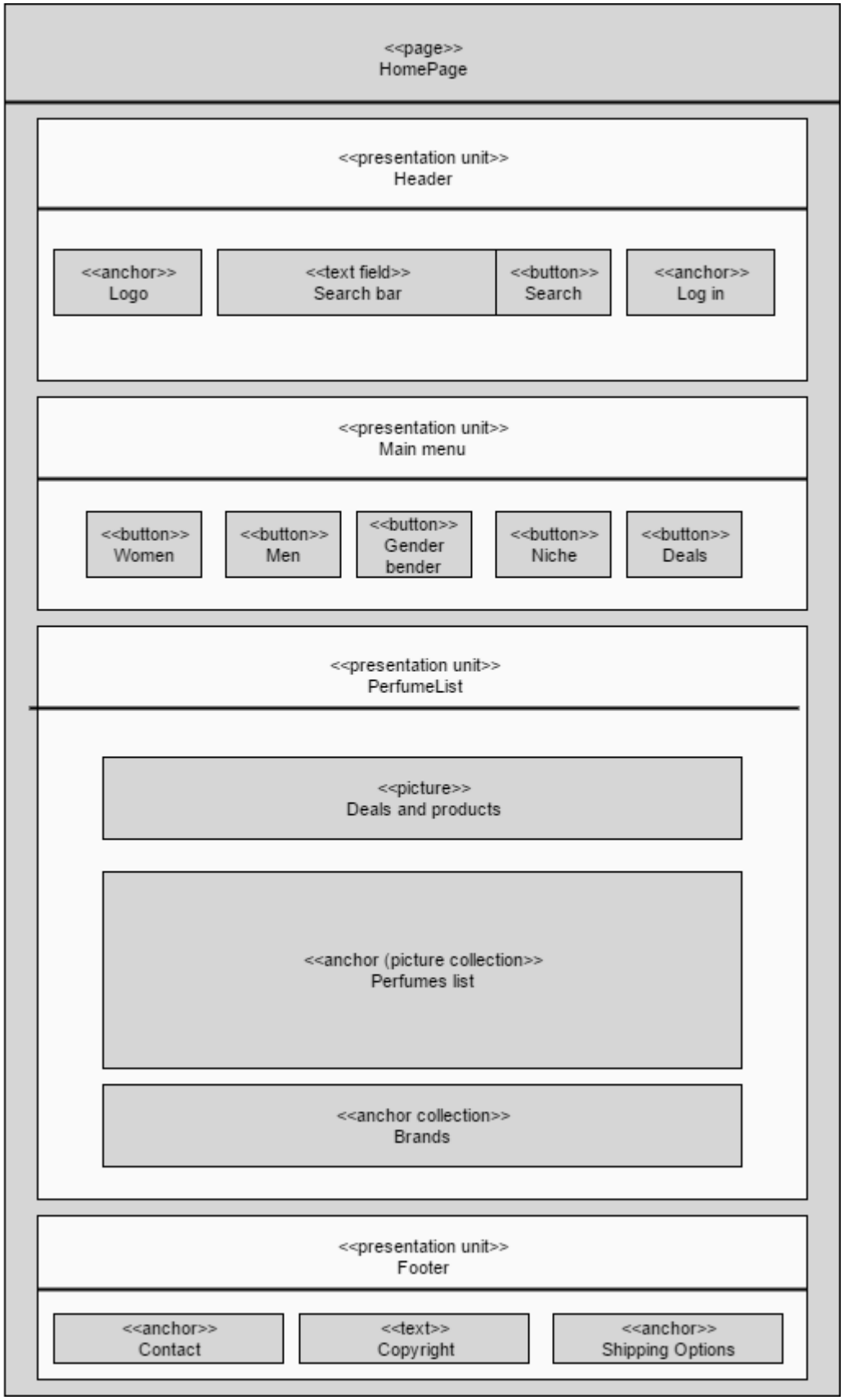
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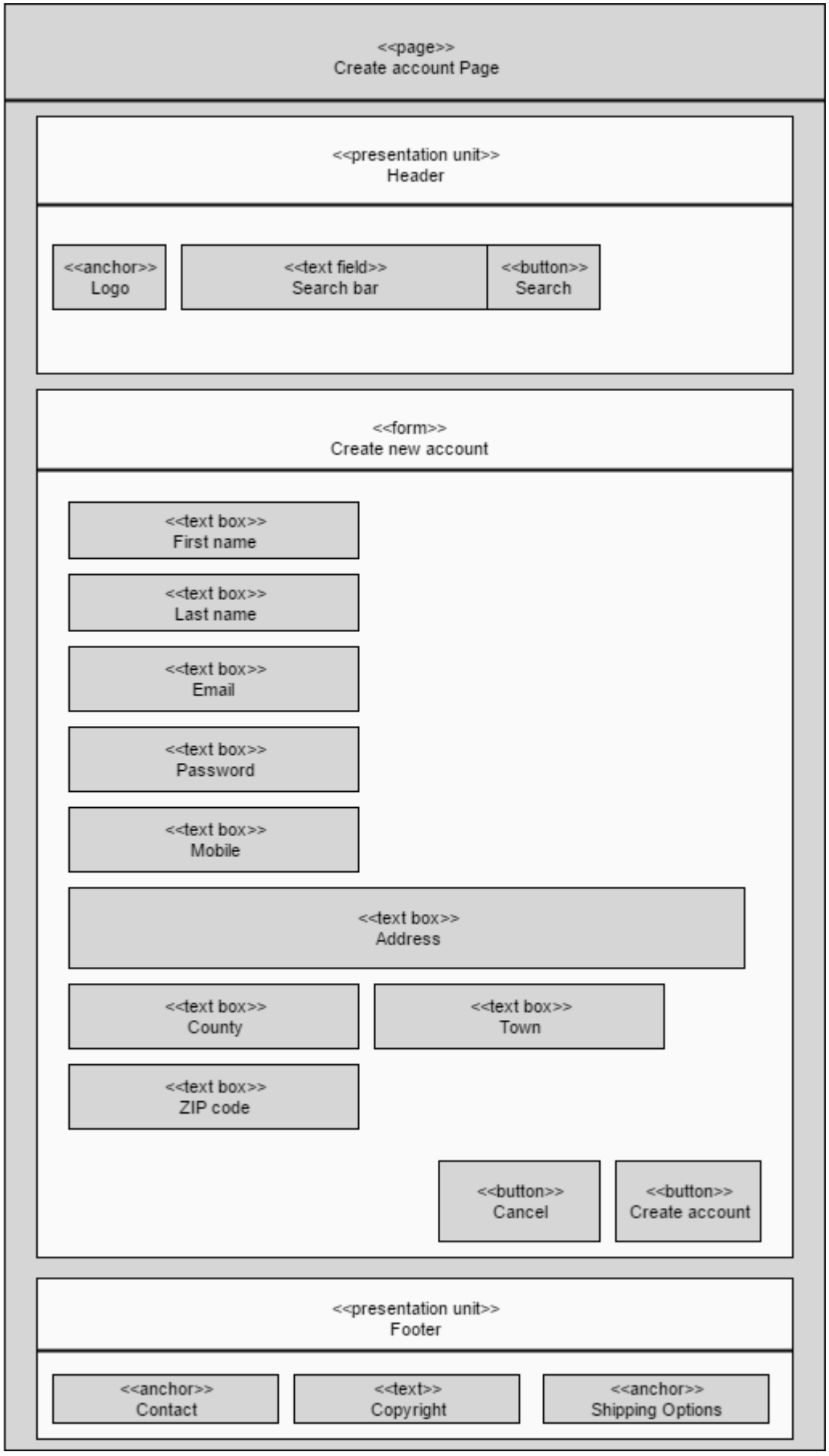
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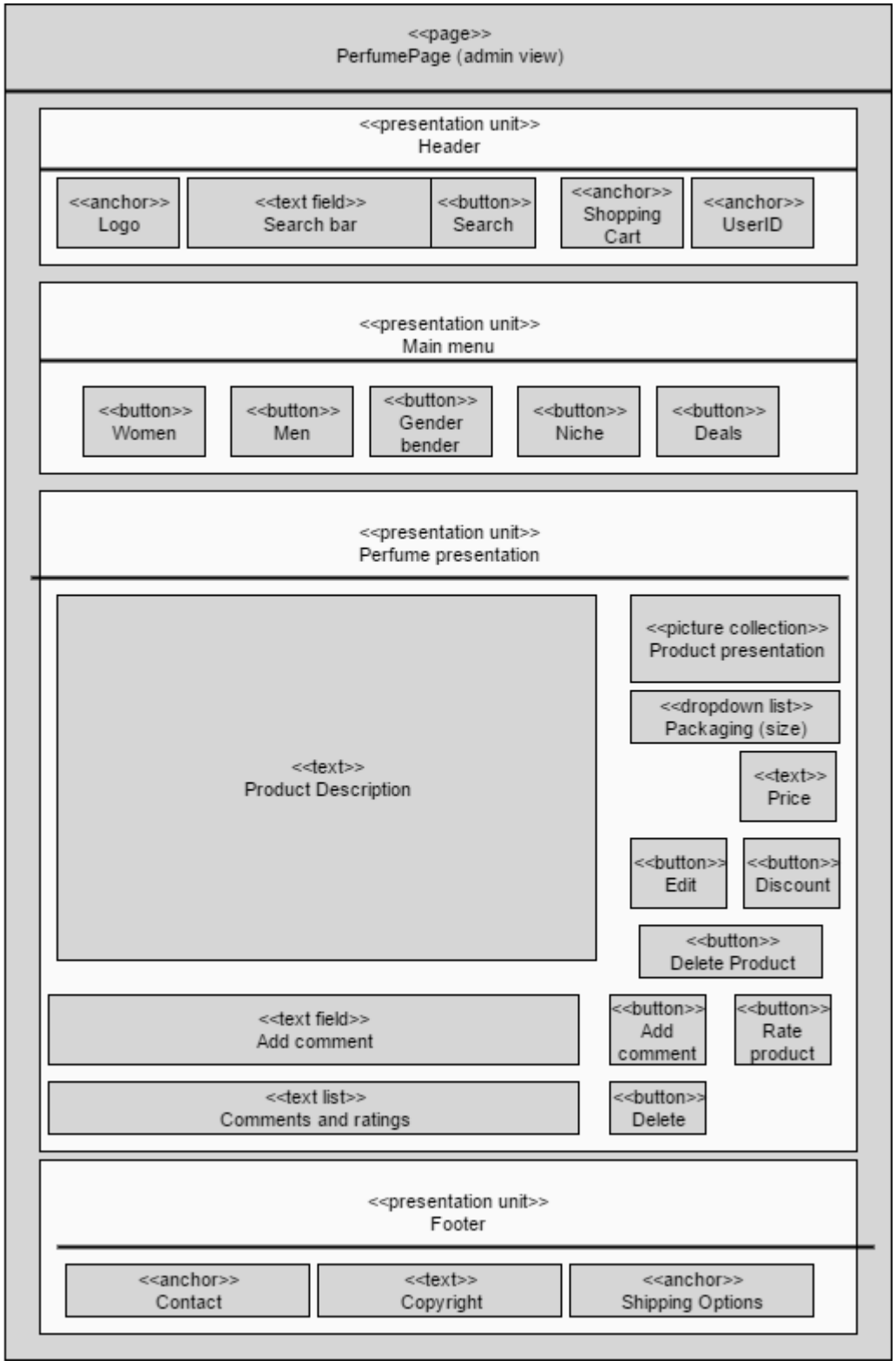
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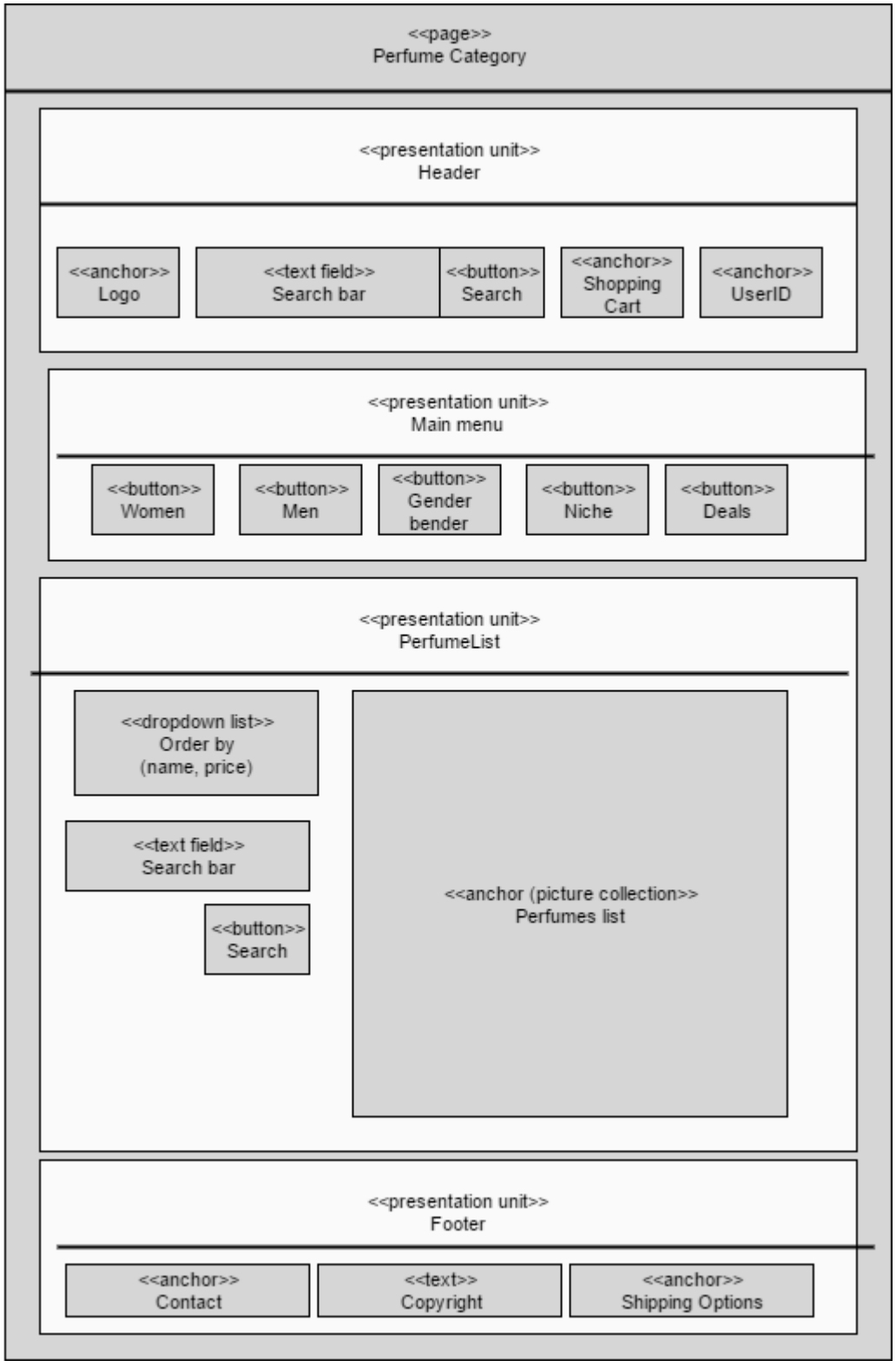
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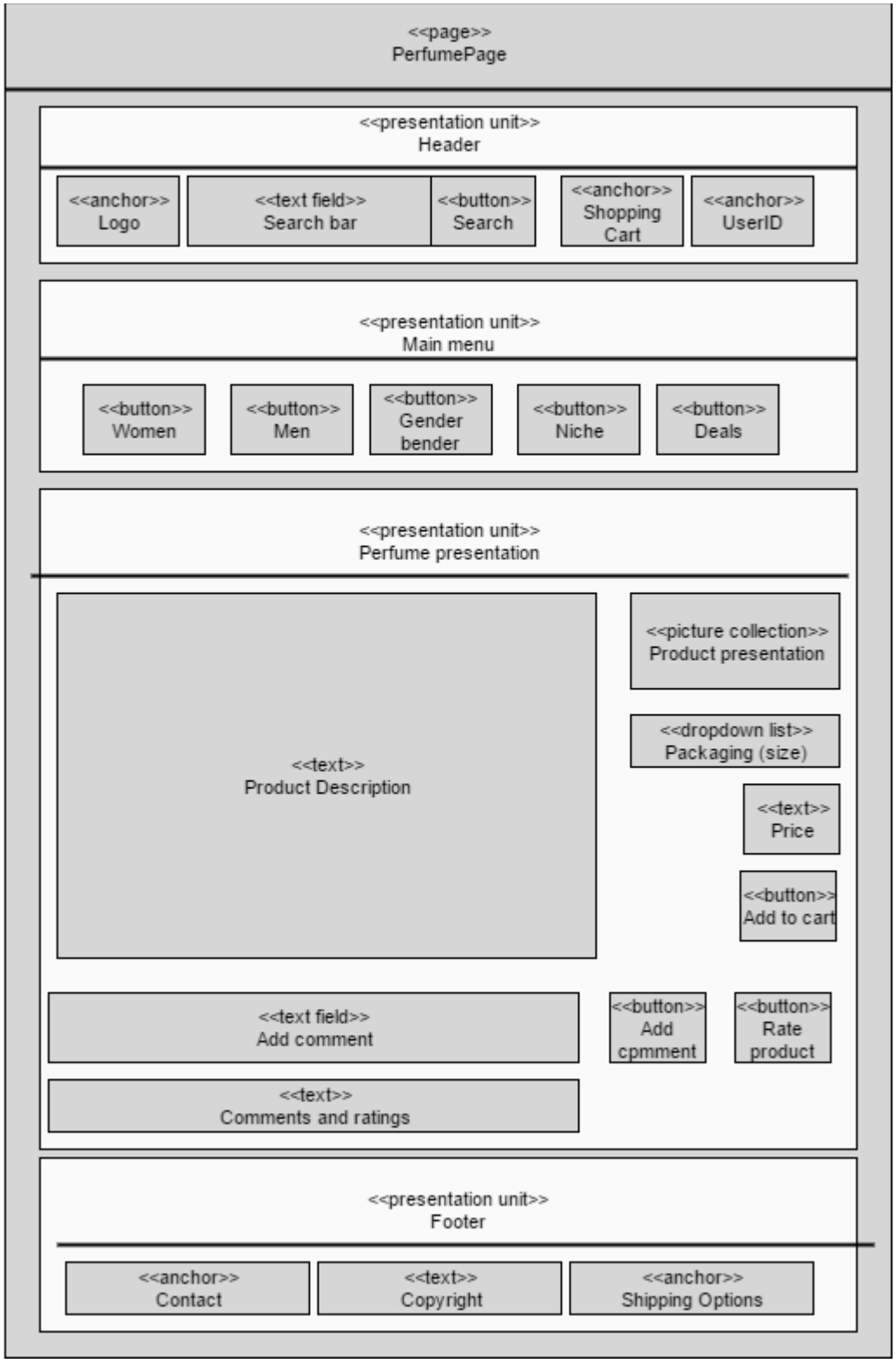
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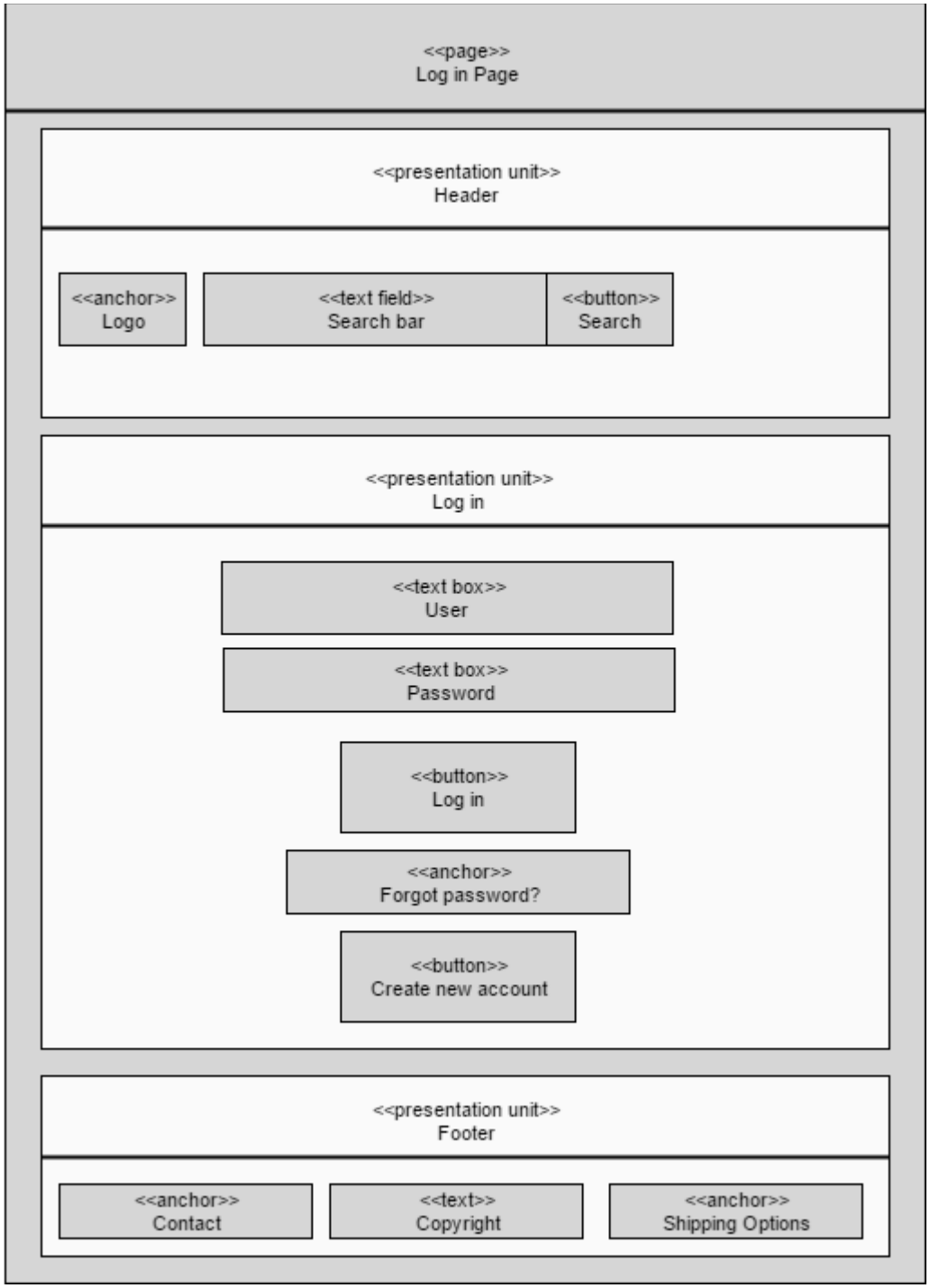
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