![A picture containing background pattern

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEBLAEsAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MwAAkpIAAgAAAAM3MwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Hà Nội, tháng........năm 20...**

**BÁO CÁO**

**THỰC TẬP TỐT NGHIỆP**

***“Xây dựng website bán mô hình LEGO”***

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[Hình 2.19. Biểu đồ usecase hoạt động thêm Danh mục](#_Toc175669686)

[Hình 2.20. Biểu đồ usecase hoạt động xóa Danh mục](#_Toc175669686)

[Hình 2.21. Biểu đồ usecase hoạt động chỉnh sửa Danh mục](#_Toc175669686)

[Hình 2.22. Biểu đồ usecase hoạt động thêm Thương hiệu](#_Toc175669686)

[Hình 2.23. Biểu đồ usecase hoạt động xóa Thương hiệu](#_Toc175669686)

[Hình 2.24. Biểu đồ usecase hoạt động chỉnh sửa Thương hiệu](#_Toc175669686)

[Hình 2.25. Biểu đồ usecase hoạt động Đơn hàng](#_Toc175669686)

[Hình 2.26. Biểu đồ tuần tự Đăng nhập](#_Toc175669686)

[Hình 2.27.Biểu đồ tuần tự Đăng ký](#_Toc175669686)

[Hình 2.28. Biểu đồ tuần tự thêm Sản phẩm](#_Toc175669686)

[Hình 2.29. Biểu đồ tuần tự sửa Sản phẩm](#_Toc175669686)

[Hình 2.30. Biểu đồ tuần tự xóa Sản phẩm](#_Toc175669686)

[Hình 2.31. Biểu đồ tuần tự Đơn hàng](#_Toc175669686)

[Hình 2.32. Biểu đồ tuần tự thêm Thương hiệu](#_Toc175669686)

[Hình 2.33. Biểu đồ tuần tự sửa Thương hiệu](#_Toc175669686)

[Hình 2.34. Biểu đồ tuần tự xóa Thương hiệu](#_Toc175669686)

[Hình 2.35. Biểu đồ tuần tự thêm Danh mục](#_Toc175669686)

[Hình 2.36. Biểu đồ tuần tự xóa Danh mục](#_Toc175669686)

[Hình 2.37. Biểu đồ tuần tự chỉnh sửa Danh mục](#_Toc175669686)

|  |  |
| --- | --- |
| **CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM**  **Độc lập – Tự do – Hạnh phúc** | |
|  | *Hà Nội, Ngày ..... tháng ..... năm 20....* |

**PHIẾU NHẬN XÉT THỰC TẬP**

**Họ tên sinh viên (nhóm):** **Lớp-khóa:**

**MSSV:**

**Địa chỉ:**

Ngày bắt đầu: ngày kết thúc:

Nội dung thực tập:

1. **Nhận xét của GVHD về chất lượng công việc giao cho SV thực hiện:**

*Các công việc được giao:*

|  |  |  |
| --- | --- | --- |
| * Hoàn thành xuất sắc | * Khá | * Yếu |
| * Tốt | * Trung bình |  |

*Hoàn tất công việc được giao:*

|  |  |  |
| --- | --- | --- |
| * Hoàn thành đúng | * Thỉnh thoảng đúng | * Không đúng thời hạn |

1. **Nhận xét của GVHD về bản thân sinh viên:**
   1. *Năng lực chuyên môn được sử dụng vào công việc được giao ở mức:*

|  |  |  |  |
| --- | --- | --- | --- |
| * Giỏi | * Khá | * Trung bình | * Yếu |

* 1. *Tinh thần, thái độ đối với công việc được giao:*

|  |  |  |
| --- | --- | --- |
| * Tích cực | * Bình thường | * Thiếu tích cực |

* 1. *Đảm bảo chuyên cần:*

|  |  |  |  |
| --- | --- | --- | --- |
| * Tốt | * Khá | * Trung bình | * Kém |

* 1. *Thái độ đối trong công việc:*

|  |  |  |  |
| --- | --- | --- | --- |
| * Hòa đồng | * Tích cực | * Bình thường | * Rụt rè |

* 1. *Khả năng sử dụng phần mềm văn phòng (office):*

|  |  |  |  |
| --- | --- | --- | --- |
| * Giỏi | * Khá | * Trung bình | * Yếu |

1. **Các nhận xét khác (nếu có):**

1. **Đánh giá:**
2. Điểm chuyên cần, tác phong và đạo đức (Đạt/Không đạt):
3. Điểm chuyên môn (Đạt/Không đạt):

|  |  |
| --- | --- |
| **Sinh viên thực hiện**  (*Ký và ghi rõ họ tên*) | **GVHD**  (*Ký và ghi rõ họ tên*) |

# **LỜI MỞ ĐẦU**

Trong bối cảnh xã hội hiện đại, nhu cầu giải trí và sáng tạo ngày càng được đề cao, và những sản phẩm mô hình lắp ráp như LEGO đã trở thành một trong những lựa chọn hàng đầu, không chỉ dành cho trẻ em mà còn dành cho người lớn. LEGO không chỉ là một món đồ chơi, mà còn là công cụ giúp phát triển trí tưởng tượng, khả năng tư duy logic và niềm đam mê sáng tạo của người chơi ở mọi độ tuổi.

Đồ án tốt nghiệp với đề tài "Xây dựng trang web bán mô hình lego”: Thực hiện nhằm mục đích thiết kế và phát triển một trang web bán các loại mô hình LEGO đa dạng. Trang web này không chỉ cung cấp các sản phẩm mô hình LEGO chính hãng với đa dạng chủ đề, mà còn hướng tới một không gian mua sắm trực tuyến thân thiện, dễ sử dụng, và thuận tiện cho người dung và đáp ứng các sản phẩm phù hợp với sở thích của khách hàng.

Mục tiêu chính của đồ án này là xây dựng một hệ thống trang web hoàn chỉnh, từ khâu thu thập và phân tích yêu cầu, thiết kế giao diện người dùng, đến triển khai và kiểm thử hệ thống. Trong quá trình thực hiện, chúng em sẽ sử dụng các công nghệ web hiện đại như HTML, CSS, JavaScript, cùng với các công cụ và framework hỗ trợ phát triển web nhằm đảm bảo sản phẩm cuối cùng đạt chất lượng cao và đáp ứng được nhu cầu của người dùng.

Việc thực hiện đề tài này không chỉ giúp chúng em áp dụng những kiến thức đã học vào thực tế mà còn tích lũy thêm nhiều kinh nghiệm quý báu trong lĩnh vực phát triển web. Chúng em tin rằng sản phẩm cuối cùng sẽ không chỉ đáp ứng được các tiêu chí kỹ thuật mà còn trở thành địa chỉ tin cậy và yêu thích của cộng đồng người yêu LEGO.

Chúng em xin chân thành cảm ơn sự hướng dẫn tận tình của giáo viên hướng dẫn Trần Thị Huê và các thầy cô trong Khoa CNTT, sự hỗ trợ và động viên từ bạn bè và gia đình trong suốt quá trình thực hiện đồ án này. Hy vọng rằng sản phẩm cuối cùng sẽ đáp ứng được kỳ vọng của tất cả mọi người và góp phần tích cực vào cộng đồng yêu thích mô hình lắp ráp.

*Hà Nội, ngày tháng năm 20*

**Xác nhận của Cán bộ hướng dẫn Sinh viên**

*(ký, ghi rõ họ và tên) (ký, ghi rõ họ và tên)*

# **CHƯƠNG I: KHẢO SÁT HỆ THỐNG**

## **Mô tả về môi trường hoạt động**

* + 1. **Môi Trường Phát Triển**

Trong giai đoạn phát triển, các ngôn ngữ lập trình được sử dụng bao gồm HTML, CSS, JavaScript kết hợp với các framework như ReactJS và Tailwind CSS để tối ưu hóa giao diện. NodeJS và ExpressJS được sử dụng cho backend. Công cụ phát triển chính là Visual Studio Code và Git để quản lý mã nguồn.

* + 1. **Môi Trường Kiểm thử**

Trong môi trường kiểm thử, các công cụ như Selenium được sử dụng để kiểm thử giao diện người dùng tự động. Các công cụ như Jest và Cypress được sử dụng để kiểm thử unit và integration nhằm đảm bảo hệ thống hoạt động ổn định trước khi triển khai.

* + 1. **Môi Trường Triển Khai**

Trang web được lưu trữ trên dịch vụ cloud như AWS hoặc Vercel, với máy chủ chạy hệ điều hành Windows**.** Nginx hoặc Apache được sử dụng làm web server để phục vụ trang web, đảm bảo hiệu suất và bảo mật. Cơ sở dữ liệu MongoDB được sử dụng để quản lý dữ liệu sản phẩm và khách hàng, đảm bảo lưu trữ và truy xuất dữ liệu hiệu quả.

* + 1. **Môi Trường vận hành**

Trong môi trường vận hành, hiệu suất của trang web được tối ưu hóa thông qua việc sử dụng CDN (Content Delivery Network) để tăng tốc độ tải trang và caching (Redis hoặc Memcached) để giảm tải cho máy chủ cơ sở dữ liệu. Ngoài ra, website cũng tích hợp hệ thống giám sát như Google Analytics và New Relic để theo dõi hiệu suất và trải nghiệm người dùng.

Môi trường hoạt động của website bán quần áo được thiết kế một cách chi tiết và khoa học, đảm bảo hiệu suất, bảo mật và khả năng mở rộng, đồng thời tối ưu hóa quá trình phát triển và vận hành của hệ thống

## **Khảo sát bài toán**

1. **Yêu cầu người dùng**

* **Khách hàng:**
* Trải nghiệm mua sắm tiện lợi, giao diện đơn giản, dễ sử dụng.
* Hình ảnh sản phẩm rõ nét, có nhiều thông tin chi tiết về kích thước, chất liệu.
* Chức năng đánh giá sản phẩm và xem đánh giá từ người mua khác.
* Chính sách đổi trả minh bạch, dễ dàng.
* **Admin:**
* Quản lý danh mục sản phẩm hiệu quả, dễ thao tác.

1. **Tính năng cốt lõi**

* **Quản lý Sản phẩm:**
* Thêm, chỉnh sửa, xóa sản phẩm.
* Phân loại sản phẩm theo danh mục.
* Cập nhật giá bán, số lượng tồn kho theo thời gian thực.
* **Quản lý Giỏ hàng:**
* Lưu sản phẩm vào giỏ hàng, cập nhật số lượng.
* **Bảo mật và quyền riêng tư:**
* Mã hóa dữ liệu giao dịch để bảo vệ thông tin khách hang.
* Xác thực người dùng bằng OTP hoặc xác thực hai yếu tố (2FA).

1. **Công nghệ sử dụng**

* **Frontend:**
* Sử dụng ReactJS để xây dựng giao diện linh hoạt, tối ưu trải nghiệm người dung.
* Áp dụng Tailwind CSS để tối ưu hiển thị trên mọi thiết bị.
* Kết nối API để lấy dữ liệu sản phẩm, người dung.
* **Backend:**
* NodeJS với ExpressJS để xử lý logic nghiệp vụ.
* REST API để giao tiếp giữa frontend và backend.
* **Cơ sở dữ liệu:**
* MongoDB để lưu trữ dữ liệu sản phẩm, đơn hàng, người dùng.
* Tích hợp Redis để tăng tốc độ truy xuất dữ liệu.
* **Lưu trữ và triển khai:**
* AWS, Firebase hoặc Vercel để đảm bảo hiệu suất, bảo mật và khả năng mở rộng.
* Sử dụng Docker để container hóa ứng dụng giúp triển khai linh hoạt hơn.

1. **Yếu tố ảnh hưởng đến hiệu suất**

## **So sánh giữa hệ thống đã có trên thị trường và hệ thống mới**

|  |  |  |
| --- | --- | --- |
| **Tiêu chí** | **Hệ thống hiện có trên thị trường** | **Hệ thống mới** |
| Giao diện và trải nghiệm người dùng (UX/UI) | Một số trang web chưa tối ưu về thiết kế, giao diện còn rườm rà, khó sử dụng. | Giao diện thân thiện, hiện đại, tối ưu cho trải nghiệm người dùng trên cả máy tính và điện thoại. |
| Thông tin sản phẩm | Thông tin sản phẩm đôi khi chưa đầy đủ, ít hình ảnh chi tiết. | Cung cấp đầy đủ thông tin về sản phẩm, hình ảnh rõ nét, video hướng dẫn (nếu có). |
| Tìm kiếm và bộ lọc sản phẩm | Chưa hỗ trợ tìm kiếm theo nhiều tiêu chí như chủ đề, độ tuổi, mức độ khó. | Hỗ trợ tìm kiếm theo nhiều tiêu chí giúp khách hàng dễ dàng tìm thấy sản phẩm mong muốn. |
| Thanh toán và bảo mật | Một số hệ thống chưa hỗ trợ đa dạng phương thức thanh toán, bảo mật chưa tối ưu. | Hỗ trợ thanh toán bằng COD, ví điện tử, bảo mật cao. |
| Quản lý giỏ hàng và đơn hàng | Một số website chưa tối ưu trải nghiệm theo dõi đơn hàng. | Hệ thống quản lý đơn hàng trực quan, dễ theo dõi trạng thái đơn hàng, cập nhật tự động. |

## **Yêu cầu của đề tài**

1. **Yêu cầu về giao diện người dùng:**

* Giao diện đơn giản, dễ sử dụng, và hướng dẫn người dùng dễ dàng truy cập các chức năng.
* Giao diện phải tương thích với nhiều thiết bị khác nhau (máy tính, điện thoại, máy tính bảng).
* Cho phép người dùng dễ dàng tương tác.
* Hiển thị hình ảnh sản phẩm chất rõ nét.

1. **Yêu cầu về chức năng:**

* **Đăng nhập:**
* Khách hàng có thể đăng nhập, quản lý thông tin cá nhân, theo dõi đơn hàng và quản lý giỏ hàng.
* Admin có quyền quản lý toàn bộ hệ thống, bao gồm quản lý sản phẩm, đơn hàng, khách hàng, danh mục, thườn hiệu và khuyến mãi.
* **Quản lý Sản phẩm:**
* **Thêm sản phẩm mới**: Admin có thể thêm mô hình Lego mới vào hệ thống, bao gồm tên, mô tả, hình ảnh, giá và số lượng.
* **Chỉnh sửa sản phẩm**: Admin có thể chỉnh sửa thông tin sản phẩm đã có, bao gồm giá, mô tả và trạng thái còn hàng.
* **Xóa sản phẩm**: Admin có thể xóa các sản phẩm không còn bán hoặc lỗi thời.
* **Tìm kiếm và lọc sản phẩm**: Người dùng có thể tìm kiếm và lọc sản phẩm theo các tiêu chí như tên, loại, mức giá, đánh giá, v.v.v.
* **Quản lý Đơn hàng:**
* **Quản lý Giỏ hàng:**
* Người dùng có thể thêm sản phẩm vào giỏ hàng, chỉnh sửa số lượng hoặc xóa sản phẩm.
* Khi hoàn tất lựa chọn, người dùng có thể xác nhận giỏ hàng và tiến hành thanh toán.

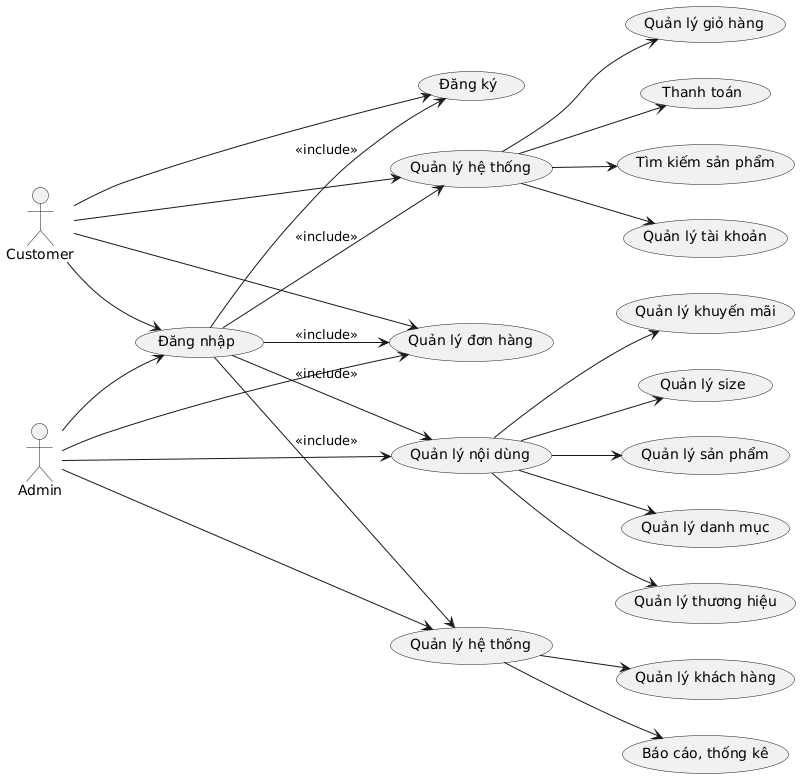
# **CHƯƠNG II: PHÂN TÍCH HỆ THỐNG**

## **Tổng quan chức năng**

### **Xây dựng biểu đồ usecase tổng quát**

* Danh sách Tác nhân người sử dụng hệ thống:

| **Ký hiệu** | **Tác nhân** | **Mô tả chức năng** |
| --- | --- | --- |
|  | **Admin** | * Quyền đăng nhập ( Có quyền truy cập cao nhất để quản lý và duy trì hệ thống). * Quản lý Sản phẩm * Quản lý Danh mục * Quản lý Thương hiệu * Quản lý Đơn hàng * Quản lý Khách hàng |
| **Khách hàng** | * Đăng nhập, Đăng ký * Quản lý Giỏ hàng * Quản lý Hồ sơ cá nhân |



Hình 2.1. Xây dựng biểu đồ usecase tổng quát website bán mô hình LEGO

### **Xây dựng biểu đồ usecase phân rã**

#### **Biểu đồ usecase phân rã Đăng nhập:**

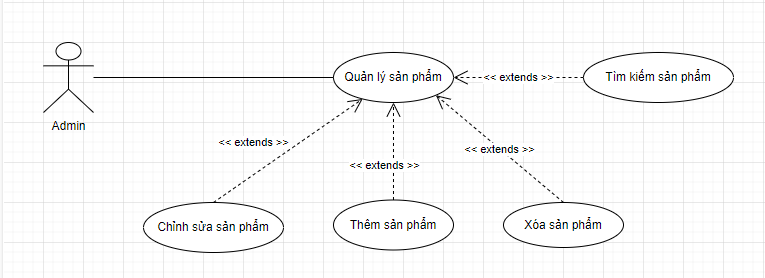


Hình 2.2. Xây dựng biểu đồ usecase phân rã Đăng nhập

* Đặc tả use case Đăng nhập:

|  |  |
| --- | --- |
| **Usecase** | * Đăng nhập |
| **Actor** | * Khách hàng |
| **Mô tả** | * Use Case này cho phép khách hàng đăng nhập vào hệ thống để truy cập các chức năng tương ứng với quyền hạn của họ. |
| **Điều kiện kiên quyết** | * Người dùng đã có tài khoản trong hệ thống. * Hệ thống đang hoạt động bình thường. |
| **Luồng sự kiện chính** | 1. **Bắt đầu: N**gười dùng chọn chức năng **"Đăng nhập"**. 2. Hệ thống hiển thị giao diện đăng nhập. 3. Người dùng nhập email/số điện thoại và mật khẩu. 4. Người dùng nhấn nút "Đăng nhập". 5. Hệ thống kiểm tra thông tin đăng nhập:  * Nếu đúng, chuyển đến bước 6. * Nếu sai, hiển thị thông báo lỗi và yêu cầu nhập lại.  1. Nếu thông tin đăng nhập hợp lệ:  * Hệ thống xác định quyền truy cập của người dùng. * Hệ thống điều hướng người dùng đến trang chính với quyền truy cập tương ứng.  1. **Kết thúc:** Người dùng đăng nhập thành công và sử dụng hệ thống. |
| **Luồng sự kiện phụ** | **Quên mật khẩu:**   * Người dùng chọn “Quên mật khẩu”. * Hệ thống yêu cầu nhập email hoặc số điện thoại. * Hệ thống gửi mã xác nhận OTP hoặc liên kết đặt lại mật khẩu. * Người dùng đặt lại mật khẩu và đăng nhập lại.   **Sai thông tin đăng nhập:**   * Nếu nhập sai quá **5 lần**, hệ thống tạm khóa tài khoản trong **5 phút.** * Nếu tiếp tục nhập sai sau khi mở khóa, hệ thống có thể yêu cầu xác minh danh tính qua email/số điện thoại. |
| **Điều kiện đầu ra** | **Thành công:**   * Người dùng đăng nhập thành công và truy cập đúng chức năng theo vai trò.   **Thất bại:**   * Sai tên đăng nhập hoặc mật khẩu. * Tài khoản bị khóa do nhập sai quá nhiều lần. * Lỗi hệ thống hoặc mất kết nối mạng. |

#### **Biểu đồ usecase phân rã Quản lý Sản phẩm:**



Hình 2.3. Xây dựng biểu đồ usecase phân rã Quản lý Sản phẩm

* Đặc tả use case Quản lý Sản phẩm:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Sản phẩm |
| **Actor** | * Admin |
| **Mô tả** | * Use Case này cho phép Admin thực hiện các thao tác quản lý sản phẩm trong hệ thống, bao gồm: Xem danh sách sản phẩm, Thêm sản phẩm mới, Chỉnh sửa sản phẩm, Xóa sản phẩm, Tìm kiếm sản phẩm. |
| **Điều kiện kiên quyết** | * Admin đã đăng nhập vào hệ thống với quyền quản trị. * Hệ thống đã có danh mục sản phẩm và thương hiệu trong cơ sở dữ liệu. |
| **Luồng sự kiện chính** | 1. **Bắt đầu**: Admin chọn chức năng "Quản lý Sản phẩm". 2. Hệ thống hiển thị danh sách sản phẩm hiện có. 3. Admin thực hiện một trong các thao tác sau:  * **Thêm sản phẩm mới:** * Nhập thông tin sản phẩm bao gồm: Tên sản phẩm, Mã sản phẩm, Mô tả sản phẩm, Hình ảnh sản phẩm, Giá bán, Số lượng tồn kho, Danh mục sản phẩm, Thương hiệu sản phẩm, Trạng thái hiển thị (còn hàng / hết hàng / ẩn). * Hệ thống kiểm tra dữ liệu hợp lệ. * Nếu hợp lệ, hệ thống lưu vào cơ sở dữ liệu và cập nhật danh sách. * **Chỉnh sửa sản phẩm:** * Chọn sản phẩm cần xóa. * Cập nhật thông tin và nhấn "Lưu thay đổi". * Hệ thống kiểm tra dữ liệu hợp lệ và cập nhật vào hệ thống. * **Xóa sản phẩm:** * Chọn sản phẩm cần xóa. * Hệ thống kiểm tra xem sản phẩm có đơn hàng liên quan không. * Nếu không có ràng buộc, hệ thống yêu cầu xác nhận từ Admin. * Nếu xác nhận, hệ thống xóa sản phẩm khỏi cơ sở dữ liệu. * **Xem chi tiết sản phẩm:** * Admin chọn sản phẩm để xem thông tin chi tiết. * **Tìm kiếm sản phẩm:** * Nhập từ khóa để tìm kiếm. * Hệ thống hiển thị danh sách sản phẩm phù hợp.  1. **Kết thúc:** Admin thoát khỏi chức năng quản lý sản phẩm. |
| **Luồng sự kiện phụ** | **Xác nhận xóa sản phẩm:**   * Nếu sản phẩm có trong đơn hàng hoặc có liên kết với danh mục, hệ thống không cho phép xóa. * Nếu Admin chọn xóa, hệ thống hiển thị cảnh báo trước khi thực hiện.   **Xử lý lỗi nhập dữ liệu:**   * Nếu Admin nhập tên hoặc mã sản phẩm trùng, hệ thống hiển thị cảnh báo. |
| **Điều kiện đầu ra** | **Thành công**:   * Sản phẩm được thêm, chỉnh sửa hoặc xóa thành công. * Danh sách sản phẩm hiển thị chính xác.   **Thất bại**:   * Lỗi kết nối hoặc hệ thống không thể lưu dữ liệu. * Không thể xóa sản phẩm do có đơn hàng hoặc danh mục liên kết. * Dữ liệu nhập không hợp lệ. * Nhập dữ liệu không hợp lệ hoặc trùng lặp. |

#### 

#### **Biểu đồ usecase phân rã Quản lý Danh mục:**

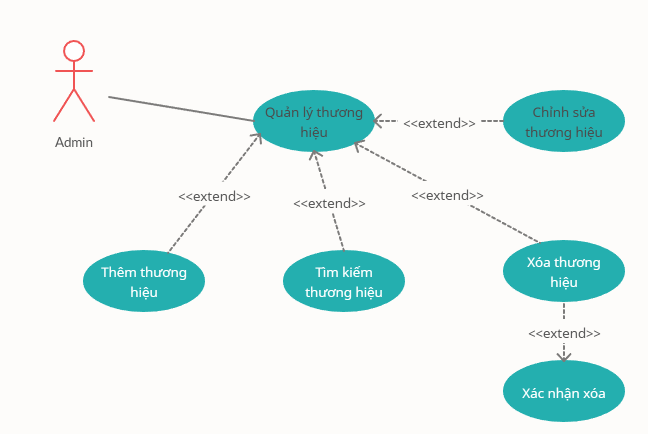


Hình 2.4. Xây dựng biểu đồ usecase phân rã Quản lý Danh mục

* Đặc tả use case Quản lý Danh mục:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Danh mục |
| **Actor** | * Admin |
| **Mô tả** | * Use Case này cho phép Admin thực hiện các thao tác quản lý danh mục trong hệ thống, bao gồm: * Xem danh sách danh mục. * Thêm, sửa, xóa danh mục. * Tìm kiếm danh mục |
| **Điều kiện kiên quyết** | * Admin đăng nhập vào hệ thống với quyền quản trị. * Hệ thống đã có danh mục sản phẩm trong cơ sở dữ liệu. |
| **Luồng sự kiện chính** | 1. **Bắt đầu**: Admin chọn chức năng "Quản lý Danh mục". 2. Hệ thống hiển thị danh sách danh mục hiện có. 3. Admin thực hiện một trong các thao tác sau:  * **Thêm danh mục mới:** * Nhập thông tin danh mục bao gồm: Tên danh mục, Trạng thái hiển thị (hoạt động / ẩn), Mô tả danh mục (nếu có). * Hệ thống kiểm tra dữ liệu hợp lệ. * Nếu hợp lệ, hệ thống lưu vào cơ sở dữ liệu và cập nhật danh sách. * **Chỉnh sửa danh mục:** * Chọn danh mục cần chỉnh sửa. * Cập nhật thông tin và nhấn "Lưu thay đổi". * Hệ thống kiểm tra dữ liệu hợp lệ và cập nhật vào hệ thống. * **Xóa danh mục:** * Chọn danh mục cần xóa. * Hệ thống kiểm tra xem danh mục có chứa sản phẩm hay danh mục con hay không. * Nếu không có ràng buộc, hệ thống yêu cầu xác nhận từ Admin. * Nếu xác nhận, hệ thống xóa danh mục khỏi cơ sở dữ liệu. * **Tìm kiếm Danh mục:** * Nhập từ khóa để tìm kiếm. * Hệ thống hiển thị danh sách danh mục phù hợp.  1. **Kết thúc**: Admin thoát khỏi chức năng quản lý danh mục. |
| **Luồng sự kiện phụ** | **Xác nhận xóa danh mục:**   * Nếu danh mục có sản phẩm hoặc danh mục con, hệ thống không cho phép xóa. * Nếu Admin chọn xóa, hệ thống hiển thị cảnh báo trước khi thực hiện.   **Xử lý lỗi nhập dữ liệu:**   * Nếu Admin nhập tên danh mục trùng, hệ thống hiển thị cảnh báo. |
| **Điều kiện đầu ra** | **Thành công:**   * Danh mục được thêm, chỉnh sửa hoặc xóa thành công. * Danh sách danh mục hiển thị chính xác.   **Thất bại:**   * Lỗi kết nối hoặc hệ thống không thể lưu dữ liệu. * Dữ liệu nhập không hợp lệ. * Nhập dữ liệu không hợp lệ hoặc trùng lặp. |

#### **Biểu đồ usecase phân rã Quản lý Thương hiệu:**

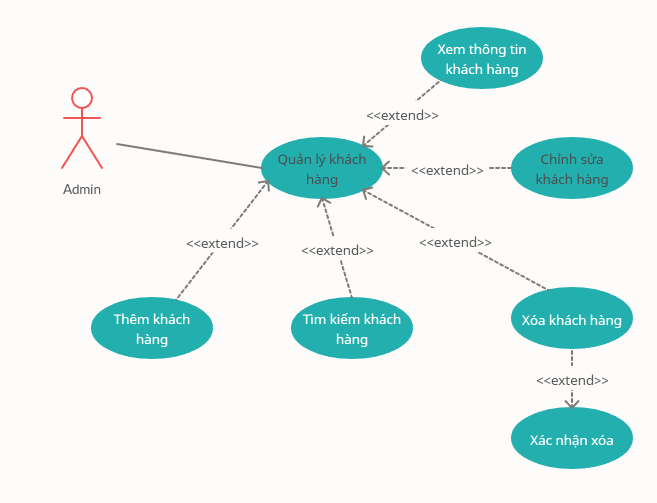


Hình 2.5. Xây dựng biểu đồ usecase phân rã Quản lý Thương hiệu

* Đặc tả use case Quản lý Thương hiệu:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Thương hiệu |
| **Actor** | * Admin |
| **Mô tả** | * Use Case này cho phép Admin thực hiện các thao tác quản lý thương hiệu trong hệ thống, bao gồm: * Xem danh sách thương hiệu. * Thêm mới, chỉnh sửa, xóa thương hiệu. * Tìm kiếm thương hiệu. |
| **Điều kiện kiên quyết** | * Admin đăng nhập vào hệ thống với quyền quản trị. * Hệ thống đã có danh sách thương hiệu trong cơ sở dữ liệu. |
| **Luồng sự kiện chính** | 1. **Bắt đầu**: Admin chọn chức năng "Quản lý Thương hiệu". 2. Hệ thống hiển thị danh sách thương hiệu hiện có. 3. Admin thực hiện một trong các thao tác sau:  * **Thêm thương hiệu mới:** * Nhập thông tin thương hiệu (Tên thương hiệu, Mô tả thương hiệu (nếu có), Logo thương hiệu, Trạng thái hiển thị (hiển thị / ẩn)). * Nếu hợp lệ, hệ thống lưu vào cơ sở dữ liệu và cập nhật danh sách. * **Chỉnh sửa thương hiệu:** * Chọn một thương hiệu từ danh sách. * Thay đổi thông tin thương hiệu và lưu lại. * **Xóa thương hiệu:** * Chọn thương hiệu cần chỉnh sửa. * Cập nhật thông tin và nhấn "Lưu thay đổi". * Hệ thống kiểm tra dữ liệu hợp lệ và cập nhật vào hệ thống. * **Xóa thương hiệu:** * Chọn thương hiệu cần xóa. * Hệ thống yêu cầu xác nhận từ Admin. * Nếu xác nhận, hệ thống xóa thương hiệu khỏi cơ sở dữ liệu. * **Tìm kiếm thương hiệu:** * Nhập từ khóa để tìm kiếm. * Hệ thống hiển thị danh sách thương hiệu phù hợp.  1. **Kết thúc**: Admin thoát khỏi chức năng quản lý thương hiệu. |
| **Luồng sự kiện phụ** | **Xác nhận xóa thương hiệu:**   * Nếu thương hiệu có sản phẩm đang hoạt động, hệ thống không cho phép xóa. * Nếu Admin chọn xóa, hệ thống hiển thị cảnh báo trước khi xóa.   **Xử lý lỗi nhập dữ liệu:**   * Nếu Admin nhập tên thương hiệu trùng, hệ thống hiển thị cảnh báo. |
| **Điều kiện đầu ra** | **Thành công:**   * Thương hiệu được thêm, chỉnh sửa hoặc xóa thành công. * Danh sách thương hiệu hiển thị chính xác.   **Thất bại:**   * Lỗi kết nối hoặc hệ thống không thể lưu dữ liệu. * Dữ liệu nhập không hợp lệ. * Không thể xóa thương hiệu do đang có sản phẩm liên kết. |

#### **Biểu đồ usecase phân rã Quản lý Khách hàng:**

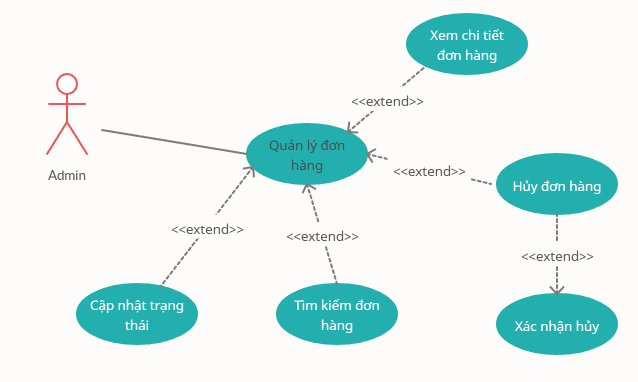


Hình 2.6. Xây dựng biểu đồ usecase phân rã Quản lý Khách hàng

* Đặc tả use case Quản lý Khách hàng:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Khách hàng |
| **Actor** | * Admin |
| **Mô tả** | * Use Case này cho phép **Admin** thực hiện các chức năng quản lý khách hàng trên hệ thống, bao gồm: * Xem danh sách khách hang. * Thêm, chỉnh sửa, xóa khách hang. * Tìm kiếm và xem chi tiết khách hàng |
| **Điều kiện kiên quyết** | * Admin đã đăng nhập vào hệ thống với quyền quản trị. * Hệ thống đã có danh sách khách hàng trong cơ sở dữ liệu. |
| **Luồng sự kiện chính** | 1. **Bắt đầu**: Use case bắt đầu khi Admin chọn chức năng "Quản lý Khách hàng". 2. Hệ thống hiển thị danh sách các Khách hàng hiện có. 3. Admin thực hiện một trong các chức năng sau:  * **Xem thông tin khách hàng: A**dmin có thể chọn một khách hàng để xem thông tin chi tiết. * **Thêm khách hàng mới:** * Nhập thông tin khách hàng (Họ tên, Email, Địa chỉ, Trạng thái tài khoản). * Hệ thống kiểm tra dữ liệu hợp lệ. * Nếu hợp lệ, hệ thống lưu vào cơ sở dữ liệu và cập nhật danh sách. * **Chỉnh sửa thông tin khách hàng**: * Chọn khách hàng cần chỉnh sửa. * Cập nhật thông tin và nhấn "Lưu thay đổi". * Hệ thống kiểm tra dữ liệu hợp lệ và cập nhật vào hệ thống. * **Xóa khách hàng**: * Chọn khách hàng cần xóa. * Hệ thống yêu cầu xác nhận từ Admin. * Nếu xác nhận, hệ thống xóa khách hàng khỏi cơ sở dữ liệu. * **Tìm kiếm khách hàng:** * Nhập từ khóa tìm kiếm. * Hệ thống hiển thị danh sách khách hàng phù hợp.  1. **Kết thúc**: Admin thoát khỏi chức năng quản lý khách hàng. |
| **Luồng sự kiện phụ** | **Xử lý lỗi nhập dữ liệu:**   * Nếu Admin nhập email không đúng định dạng, hệ thống hiển thị cảnh báo. * Nếu số điện thoại không hợp lệ, hệ thống yêu cầu nhập lại.   **Xác nhận xóa khách hàng**:   * Nếu khách hàng có đơn hàng đang xử lý, hệ thống không cho phép xóa. * Nếu Admin chọn xóa, hệ thống hiển thị cảnh báo trước khi xóa. |
| **Điều kiện đầu ra** | **Thành công:**   * Thông tin khách hàng được thêm, chỉnh sửa hoặc xóa thành công. * Danh sách khách hàng hiển thị đầy đủ và đúng trạng thái.   **Thất bại:**   * Lỗi kết nối hoặc hệ thống không thể lưu dữ liệu. * Dữ liệu nhập không hợp lệ. * Không thể xóa khách hàng do đang có đơn hàng chưa xử lý. |

#### **Biểu đồ usecase phân rã Quản lý Đơn hàng:**

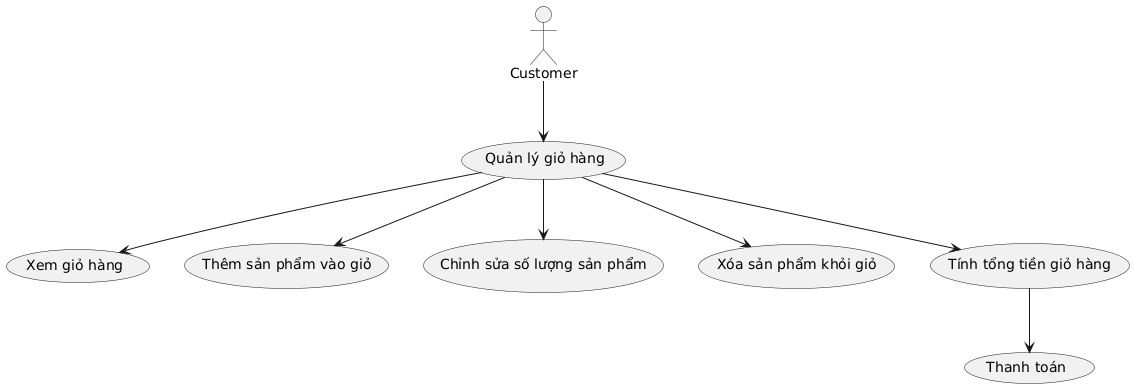


Hình 2.10. Xây dựng biểu đồ usecase phân rã Quản lý Đơn hàng

* Đặc tả use case Quản lý Đơn hàng:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Đơn hàng |
| **Actor** | * Admin |
| **Mô tả** | * Use Case này cho phép **Admin** quản lý đơn hàng trong hệ thống, bao gồm xem danh sách đơn hàng, cập nhật trạng thái đơn hàng, hủy đơn hàng và tìm kiếm đơn hàng. |
| **Điều kiện kiên quyết** | * Admin đã đăng nhập vào hệ thống với quyền quản trị. |
| **Luồng sự kiện chính** | 1. **Bắt đầu:** Admin chọn chức năng “Quản lý Đơn hàng”. 2. Hệ thống hiển thị danh sách đơn hàng, bao gồm các trạng thái **(**Chờ xác nhận, Đang giao, Hoàn thành, Đã hủy, ...). 3. Admin thực hiện một trong các thao tác sau:  * **Xem chi tiết đơn hàng**: * Admin chọn đơn hàng cần xem. * Hệ thống hiển thị thông tin chi tiết của đơn hàng (sản phẩm, khách hàng, địa chỉ, ...). * **Cập nhật trạng thái đơn hàng**: * Admin chọn đơn hàng cần cập nhật. * Chọn trạng thái mới(Xác nhận đơn hàng, Đang giao, Hoàn thành). * Hệ thống cập nhật trạng thái đơn hàng và thông báo đến khách hang. * **Hủy đơn hàng**: * Admin chọn đơn hàng cần hủy. * Hệ thống yêu cầu xác nhận hủy đơn. * Nếu Admin đồng ý, hệ thống hủy đơn và thông báo đến khách hàng. * **Tìm kiếm đơn hàng**: * Admin nhập mã đơn hàng hoặc tên khách hàng để tìm kiếm. * Hệ thống hiển thị danh sách đơn hàng phù hợp.  1. Hệ thống cập nhật danh sách đơn hàng sau khi Admin thực hiện thao tác. 2. Kết thúc: Admin thoát khỏi chức năng quản lý đơn hàng. |
| **Luồng sự kiện phụ** | **Xác nhận hủy đơn hàng:**   * Nếu đơn hàng đang vận chuyển, Admin không thể hủy mà chỉ có thể đổi trạng thái.   **Xử lý lỗi dữ liệu**:   * Nếu Admin nhập mã đơn hàng không hợp lệ, hệ thống hiển thị thông báo lỗi.   **Kiểm tra trạng thái đơn hàng**:   * Nếu đơn hàng đã hoàn thành hoặc đã hủy, Admin không thể cập nhật trạng thái nữa. |
| **Điều kiện đầu ra** | **Thành công:**   * Đơn hàng được thêm, cập nhật trạng thái hoặc hủy thành công. * Danh sách đơn hàng hiển thị chính xác theo trạng thái mới.   **Thất bại:**   * Lỗi kết nối hoặc hệ thống không thể cập nhật đơn hàng. * Đơn hàng đã hoàn tất hoặc bị hủy, không thể cập nhật. * Mã đơn hàng không hợp lệ hoặc không tồn tại. |

#### **Biểu đồ usecase phân rã Quản lý Giỏ hàng:**



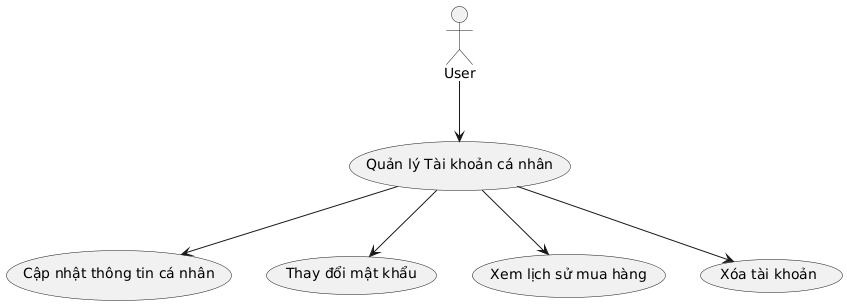
Hình 2.11. Xây dựng biểu đồ usecase phân rã Quản lý Giỏ hàng

* Đặc tả use case Quản lý Giỏ hàng:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Giỏ hàng |
| **Actor** | * Khách hàng |
| **Mô tả** | Use Case này cho phép thực hiện các thao tác liên quan đến giỏ hàng, bao gồm thêm sản phẩm, cập nhật số lượng, xóa sản phẩm khỏi giỏ hàng và xem danh sách sản phẩm trong giỏ hàng. |

|  |  |
| --- | --- |
| **Điều kiện kiên quyết** | * Khách hàng đã đăng nhập vào hệ thống. * Hệ thống đã có danh sách sản phẩm để khách hàng chọn mua. |
| **Luồng sự kiện chính** | 1. **Bắt đầu**: Customer chọn chức năng "Giỏ hàng". 2. Hệ thống hiển thị danh sách sản phẩm trong giỏ hàng (nếu có)**.** 3. Khách hàng thực hiện một trong các thao tác sau:  * **Thêm sản phẩm vào giỏ hàng**: * Chọn sản phẩm cần mua. * Nhập số lượng sản phẩm. * Hệ thống kiểm tra kho hang. * Nếu số lượng hợp lệ, hệ thống thêm sản phẩm vào giỏ và cập nhật tổng tiền. * **Xóa sản phẩm khỏi giỏ hàng**: * Khách hàng chọn sản phẩm cần xóa. * Hệ thống yêu cầu xác nhận xóa. * Nếu khách hàng đồng ý, hệ thống xóa sản phẩm khỏi giỏ hàng và cập nhật tổng tiền. * **Chỉnh sửa số lượng sản phẩm:** * Khách hàng thay đổi số lượng sản phẩm trong giỏ hàng. * Hệ thống kiểm tra kho hàng. * Nếu số lượng hợp lệ, hệ thống cập nhật giỏ hàng.  1. **Kết thúc:** Khách hàng thoát khỏi chức năng giỏ hàng hoặc tiếp tục mua sắm. |
| **Luồng sự kiện phụ** | **Xác nhận xóa sản phẩm khỏi giỏ hàng:**   * Hệ thống hiển thị hộp thoại xác nhận trước khi xóa sản phẩm. * Nếu khách hàng đồng ý, hệ thống tiến hành xóa.   **Kiểm tra tồn kho khi thêm hoặc cập nhật sản phẩm:**   * Nếu sản phẩm hết hàng, hệ thống hiển thị thông báo. * Nếu số lượng đặt lớn hơn số lượng trong kho, hệ thống yêu cầu giảm số lượng. |
| **Điều kiện đầu ra** | **Thành công:**   * Sản phẩm được thêm, cập nhật hoặc xóa thành công khỏi giỏ hàng. * Tổng tiền hiển thị đúng với số lượng sản phẩm.   **Thất bại:**   * Lỗi kết nối hoặc hệ thống không thể cập nhật giỏ hàng. * Sản phẩm hết hàng hoặc số lượng không đủ. |

#### **Biểu đồ usecase phân rã Quản lý Hồ sơ cá nhân:**



Hình 2.12. Xây dựng biểu đồ usecase phân rã Quản lý Hồ sơ cá nhân

* Đặc tả use case Quản lý Hồ sơ cá nhân:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Tài Hồ sơ nhân |
| **Actor** | * Khách hàng |
| **Mô tả** | * Use Case này cho phép Khách hàngthực hiện các thao tác quản lý thông tin hồ sơ cá nhân, bao gồm xem, cập nhật thông tin cá nhân, đổi mật khẩu. |
| **Điều kiện kiên quyết** | * Người dùng đã đăng nhập vào hệ thống. * Hồ sơ cá nhân của người dùng đã tồn tại trong hệ thống. |
| **Luồng sự kiện chính** | 1. **Bắt đầu**: Người dùng chọn chức năng " Hồ sơ cá nhân " trong hệ thống. 2. Hệ thống hiển thị thông tin tài khoản cá nhân của người dung**.** 3. Người dùng có thể thực hiện một trong các thao tác sau:  * **Cập nhật thông tin cá nhân:** * Người dùng chỉnh sửa thông tin như họ tên, số điện thoại, địa chỉ, email v.v.v. * Hệ thống kiểm tra dữ liệu hợp lệ và lưu thay đổi. * **Thay đổi mật khẩu:** * Người dùng nhập mật khẩu hiện tại, mật khẩu mới và xác nhận mật khẩu mới. * Hệ thống kiểm tra mật khẩu hiện tại có đúng không. * Nếu hợp lệ, hệ thống cập nhật mật khẩu mới.  1. Hệ thống cập nhật thông tin tài khoản theo thay đổi của người dùng. 2. **Kết thúc:** Người dùng thoát khỏi chức năng quản lý Hồ sơ. |
| **Luồng sự kiện phụ** | **Xác nhận xóa tài khoản**   * Nếu người dùng chọn xóa tài khoản, hệ thống gửi mã xác nhận qua email. * Nếu mã xác nhận hợp lệ, hệ thống tiến hành xóa tài khoản.   **Xử lý lỗi khi đổi mật khẩu**   * Nếu mật khẩu hiện tại sai, hệ thống hiển thị thông báo lỗi. * Nếu mật khẩu mới không hợp lệ, hệ thống yêu cầu nhập lại. |
| **Điều kiện đầu ra** | **Thành công:**   * Hồ sơ cá nhân được cập nhật đúng theo yêu cầu. * Mật khẩu được thay đổi thành công. * Ảnh đại diện được cập nhật và hiển thị đúng.   **Thất bại:**   * ỗi kết nối hoặc hệ thống không thể lưu thông tin. * Dữ liệu nhập không hợp lệ (email sai, số điện thoại không hợp lệ, mật khẩu không khớp, ...). |

### **Xây dựng biểu đồ hoạt** **động**

#### **Biểu đồ hoạt động chức năng đăng nhập**

* **Đặc tả biểu đồ hoạt động chức năng Đăng nhập:**

1. **Tên biểu đồ hoạt động:** Đăng Nhập
2. **Mô tả chức năng:**

Chức năng đăng nhập cho phép tác nhân truy cập vào hệ thống tin tức điện tử bằng cách xác thực thông tin tài khoản của họ.

1. **Các tác nhân liên quan**

* Admin, Khách hàng
* Hệ thống

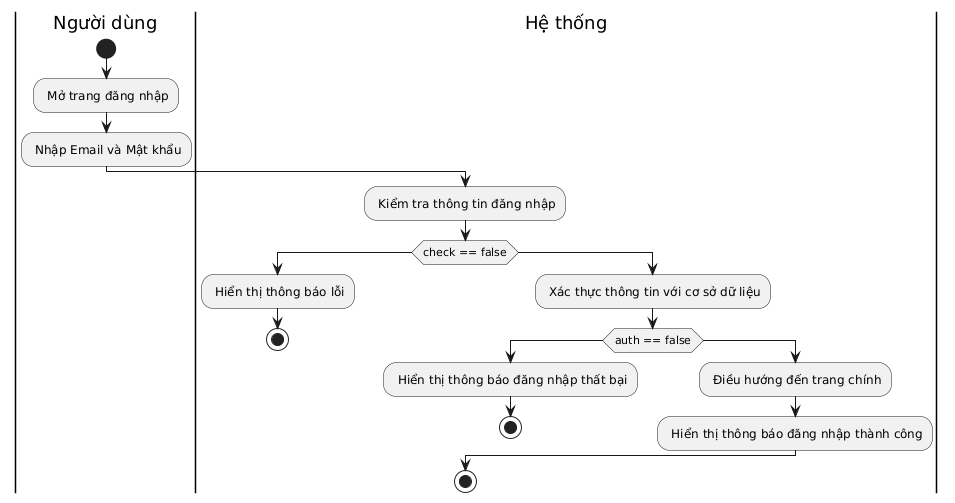
1. **Các bước chi tiết**
2. Người dùng mở trang đăng nhập: Hệ thống hiển thị Form đăng nhập với các trường nhập dữ liệu cho email và mật khẩu
3. Người dùng nhập email và mật khẩu: Người dùng điền thông tin vào các trường tài khoản và mật khẩu.
4. Người dùng nhấn nút "Đăng nhập**":** Hệ thống nhận thông tin đăng nhập từ người dùng.
5. Hệ thống kiểm tra thông tin đăng nhập:

* Hệ thống kiểm tra tính hợp lệ của thông tin.
* Nếu thông tin hợp lệ, hệ thống xác thực thông tin đăng nhập với cơ sở dữ liệu.
* Nếu thông tin không hợp lệ, hệ thống hiển thị thông báo lỗi và yêu cầu người dùng nhập lại thông tin

1. Thông tin hợp lệ:

* Hệ thống lưu thông tin đăng nhập.
* Hệ thống tạo token xác thực cho người dùng.
* Điều hướng vào trang quản lý hệ thống

1. Thông tin không hợp lệ:
   * Hệ thống hiển thị thông báo lỗi và yêu cầu người dùng nhập lại thông tin.



Hình 2.13. Biểu đồ hoạt động chức năng đăng nhập

#### **Biểu đồ hoạt động chức năng đăng ký**

* **Đặc tả biểu đồ hoạt động chức năng Đăng ký:**

1. **Tên biểu đồ hoạt động:** Đăng ký
2. **Mô tả chức năng:**

Chức năng đăng ký cho phép tác nhân truy cập vào hệ thống quản lý tin tức điện tử đăng ký tài khoản để sử dụng hệ thống.

1. **Các tác nhân liên quan:**

* Khách hàng
* Hệ thống

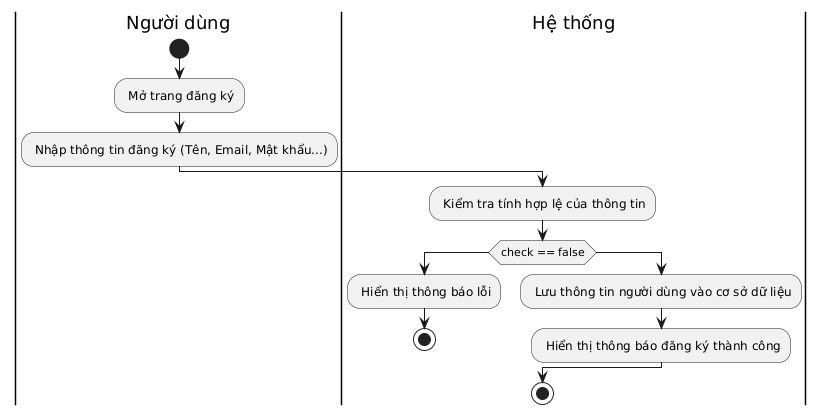
1. **Các bước chi tiết:**
2. Người dùng mở trang đăng ký: Hệ thống hiển thị form đăng ký.
3. Người dùng nhập điền vào form đăng ký: Người dùng điền thông tin vào các trường: Tên, Họ, số điện thoại, email, mật khẩu, xác nhận mật khẩu.
4. Người dùng nhấn nút "Đăng ký": Hệ thống nhận thông tin đăng ký từ người dùng.
5. Hệ thống kiểm tra thông tin đăng ký:

* Hệ thống kiểm tra tính hợp lệ của thông tin.
* Nếu thông tin hợp lệ, hệ thống xác thực thông tin đăng ký và lưu vào cơ sở dữ liệu.
* Nếu thông tin không hợp lệ, hệ thống hiển thị thông báo lỗi và yêu cầu người dùng nhập lại thông tin.

1. Thông tin hợp lệ:

* Hệ thống lưu thông tin đăng ký.
* Hệ thống tạo token xác thực cho người dùng.
* Điều hướng vào trang đăng nhập hệ thống

1. Thông tin không hợp lệ:

* Hệ thống hiển thị thông báo lỗi và yêu cầu người dùng nhập lại thông tin.

***Hình 2.14. Biểu đồ hoạt động chức năng đăng ký***

#### **Biểu đồ hoạt động chức năng Tìm kiếm sản phẩm**

* **Đặc tả biểu đồ hoạt động chức năng Tìm kiếm sản phẩm:**

1. **Tên biểu đồ hoạt động:** Đăng ký
2. **Mô tả chức năng:**

Chức năng tìm kiếm giúp khách hàng tìm sản phẩm theo từ khóa hoặc bộ lọc.

1. **Các tác nhân liên quan:**

* Khách hàng
* Hệ thống

1. **Các bước chi tiết:**
2. Người dùng mở trang tìm kiếm: Hệ thống hiển thị ô nhập từ khóa hoặc bộ lọc tìm kiếm.
3. Người dùng nhập từ khóa hoặc chọn bộ lọc: Nhập tên sản phẩm hoặc chọn danh mục, thương hiệu, độ tuổi độ khó, giá.
4. Người dùng nhấn nút "Tìm kiếm": Hệ thống nhận thông tin từ khóa hoặc bộ lọc.
5. Hệ thống kiểm tra tính hợp lệ của từ khóa hoặc bộ lọc.

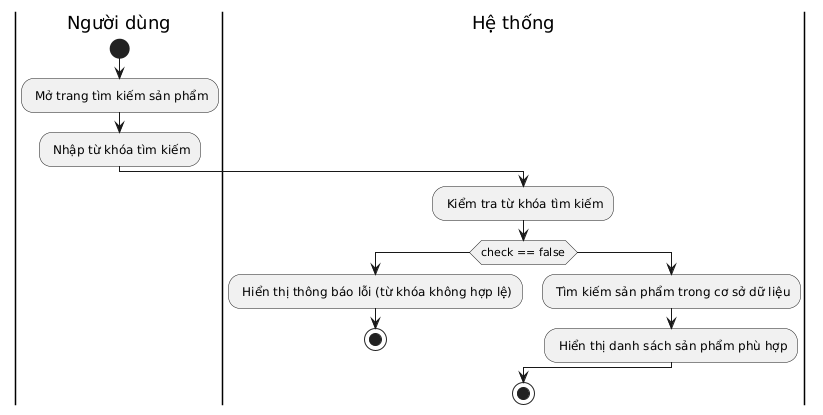
* Nếu từ khóa trống → Hiển thị thông báo yêu cầu nhập từ khóa.
* Nếu hợp lệ → Chuyển sang bước tiếp theo.
* Nếu không hợp lệ → Hiển thị thông báo "Không tìm thấy sản phẩm phù hợp".

1. Hệ thống tìm kiếm các sản phẩm:

* Lọc sản phẩm trong cơ sở dữ liệu theo từ khóa nhập vào.

1. Hệ thống hiển thị kết quả tìm kiếm.

* Nếu có kết quả → Hiển thị danh sách sản phẩm.
* Nếu không có kết quả → Thông báo "Không tìm thấy sản phẩm phù hợp"



***Hình 2.15. Biểu đồ hoạt động chức năng tìm kiếm***

#### **Biểu đồ hoạt động chức năng Thêm sản phẩm**

* **Đặc tả biểu đồ hoạt động chức năng Thêm sản phẩm:**
  1. **Tên biểu đồ hoạt động:** Thêm sản phẩm

**2. Mô tả chức năng:**

Biểu đồ hoạt động mô tả các bước và quyết định trong quá trình thêm một sản phẩm mới vào hệ thống quản lý bán mô hình LEGO.

**3. Các tác nhân liên quan:**

* Admin
* Hệ thống

**4. Các bước chi tiết:**

1. Người dùng mở giao diện thêm sản phẩm
2. Hệ thống hiển thị danh sách sản phẩm hiện đã có
3. Người dùng chọn “Thêm sản phẩm mới”
4. Hệ thống hiển thị Form nhập thông tin sản phẩm
5. Nhập thông tin sản phẩm, bao gồm:

* Tên sả phẩm
* Mô tả sản phẩm
* Hình ảnh sản phẩm
* Số lượng tồn kho
* Danh mục sản phẩm
* Thương hiệu
* Chủ đề
* Độ tuổi.
* Độ khó.

1. Người dùng nhấn nút “Lưu sản phẩm”
2. Hệ thống kiểm tra tính hợp lệ của dữ liệu:

* Tên sản phẩm không để trống hoặc ký tự đặc biệt
* Giá phải > 0
* Số lượng tồn kho phải >= 0
* Hình ảnh phải đúng định dạn (JPEG, PNG, ...)

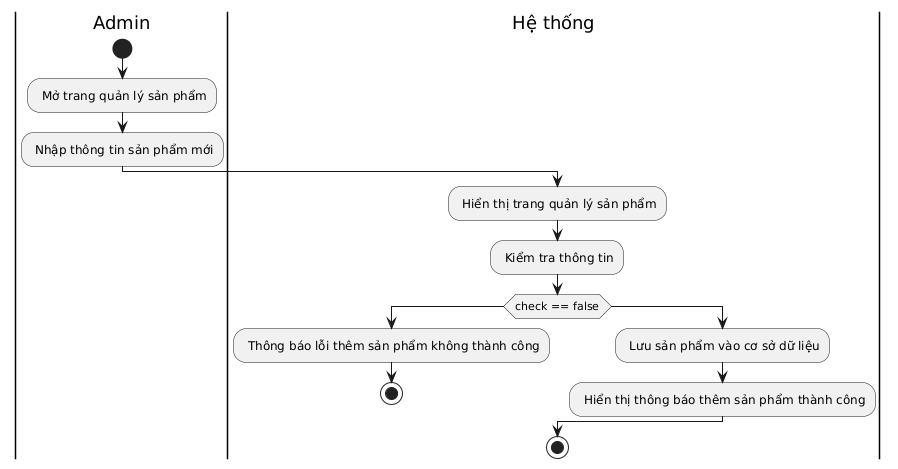
1. Xử lý kết quả kiểm tra:

* Nếu thông tin hợp lệ, hệ thống sẽ thực hiện lưu vào cơ sở dữ liệu
* Nếu có lỗi, hệ thống sẽ thông báo lỗi và yêu cầu người dùng chỉnh sửa thông tin (quay về bước 5)

1. Lưu bài viết vào cơ sở dữ liệu:

* Thông tin hợp lệ sẽ được lưu vào cơ sở dữ liệu.

1. Hiển thị thông báo kết quả:

* Nếu thành công: Hệ thống thống báo sản phẩm đã được thêm thành công.
*  Nếu thất bại: Hệ thống thông báo lỗi và yêu cầu thử lại.

Hình 2.16. Biểu đồ hoạt động chức năng thêm sản phẩm

#### **Biểu đồ hoạt động chức năng Sửa sản phẩm**

* **Đặc tả biểu đồ hoạt động chức năng Sửa sản phẩm:**

**1. Tên biểu đồ hoạt động:** Sửa sản phẩm

**2. Mô tả chức năng:**

Chức năng Sửa sản phẩm cho phép người dùng (Admin) chỉnh sửa thông tin sản phẩm trên hệ thống, đảm bảo dữ liệu luôn chính xác và cập nhật.

**3. Các tác nhân liên quan:**

* Admin
* Hệ thống

**4. Các bước chi tiết:**

1. Người dùng mở trang quản lý sản phẩm:
2. Hệ thống hiển thị danh sách sản phẩm hiện đã có
3. Người dùng tìm kiếm sản phẩm cần chính sửa
4. Hệ thống hiển thị giao diện chỉnh sửa sản phẩm
5. Người dùng nhập thông tin muốn chỉnh sửa, bao gồm:

* Tên sản phẩm.
* Mô tả sản phẩm.
* Hình ảnh sản phẩm.
* Giá bán.
* Số lượng tồn kho.
* Danh mục sản phẩm.
* Thương hiệu.
* Độ tuổi.
* Độ khó.
* Chủ đề.

1. Người dùng click nút “cập nhật” để gửi yêu cầu cập nhật sản phẩm.
2. Kiểm tra tính hợp lệ của dữ liệu

* Tên sản phẩm không được để trống hoặc ký tự đặc biệt.
* Giá phải > 0
* Số lượng tồn kho phải >= 0
* Hình ảnh phải đúng định dạn (JPEG, PNG, ...)

1. **Xử lý kết quả kiểm tra**

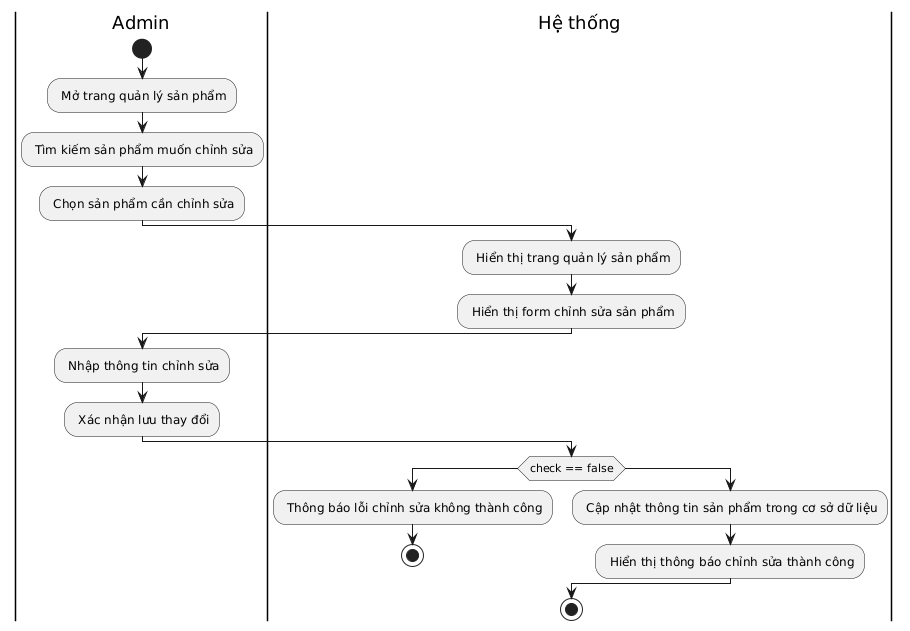
* Nếu thông tin hợp lệ → Cập nhật cơ sở dữ liệu.
* Nếu thông tin không hợp lệ → Hiển thị thông báo lỗi và yêu cầu chỉnh sửa (quay lại bước 5)

1. Lưu sản phẩm vào cơ sở dữ liệu:

* Thông tin hợp lệ sẽ được lưu vào cơ sở dữ liệu.

1. Hiển thị thông báo kết quả:

* Hệ thống thông báo cập nhật sản phẩm thành công.



Hình 2.17. Biểu đồ hoạt động chức năng chỉnh sửa sản phẩm

#### **Biểu đồ hoạt động chức năng Xóa sản phẩm**

* **Đặc tả biểu đồ hoạt động chức năng Xóa Sản phẩm:**

**1. Tên biểu đồ hoạt động:** Xóa sản phẩm

**2. Mô tả chức năng:**

Chức năng Xóa sản phẩm cho phép người dùng (Admin)loại bỏ một sản phẩm khỏi hệ thống. Hệ thống yêu cầu xác nhận trước khi thực hiện xóa để tránh thao tác nhầm.

**3. Các tác nhân liên quan:**

* Admin
* Hệ thống

**4. Các bước chi tiết:**

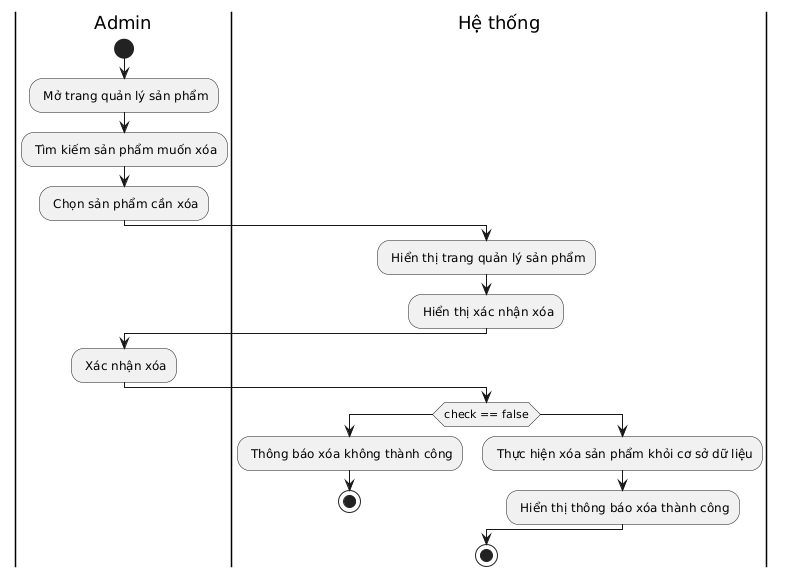
1. Người dùng mở trang quản lý sản phẩm.
2. Hệ thống hiển thị danh sách sản phẩm hiện đã có.
3. Người dùng tìm kiếm sản phẩm cần xóa.
4. Hệ thống hiển thị hộp thoại xác nhận xóa, yêu cầu người dùng xác nhận hành động:

* Chọn "Xóa" → Tiếp tục xóa sản phẩm.
* Chọn "Hủy" → Hủy thao tác, quay lại danh sách sản phẩm.

1. Nếu Admin xác nhận xóa, hệ thống thực hiện:Hệ thống thực hiện hành động xóa bài viết

* Kiểm tra sản phẩm có đang trong đơn hàng chưa hoàn tất không.
* Nếu sản phẩm có trong đơn hàng đang xử lý → Thông báo lỗi, không thể xóa.
* Nếu sản phẩm không bị ràng buộc → Tiến hành xóa khỏi cơ sở dữ liệu

1. Hệ thống cập nhật danh sách sản phẩm
2. Hệ thống hiển thị thông báo xóa sản phẩm thành công hoặc thất bại (nếu có lỗi)



Hình 2.18. Biểu đồ hoạt động chức năng xóa sản phẩm

#### **Biểu đồ hoạt động chức năng thêm danh mục**

* **Đặc tả biểu đồ hoạt động chức năng Thêm danh mục:**

**1. Tên biểu đồ hoạt động:** Thêm danh mục

**2. Mô tả chức năng:**

Biểu đồ hoạt động này mô tả các bước mà người dùng (Admin) hiện để thêm một danh mục sản phẩm mới vào hệ thống. Hệ thống kiểm tra dữ liệu nhập vào và lưu danh mục nếu hợp lệ.

**3. Các tác nhân liên quan:**

* Admin
* Hệ thống

**4. Các bước chi tiết:**

1. Người dùng mở giao diện thêm danh mục
2. Hệ thống hiển thị trang quản lý danh mục
3. Người dùng chọn thêm danh mục
4. Hệ thống hiển thị giao diện nhập danh mục mới Người dùng nhập thông tin danh mục, bao gồm:

* Tên danh mục
* Mô tả danh mục (nếu có)

1. Người dùng nhấn nút “Lưu danh mục”
2. Hệ thống kiểm tra tính hợp lệ của dữ liệu:

* Tên danh mục không được để trống hoặc có chứa ký tự đặc biệt.
* Tên danh mục không được trùng với danh mục đã có
* Độ dài tên danh mục nằm trong giới hạn cho phép.

1. Xử lý kết quả kiểm tra:

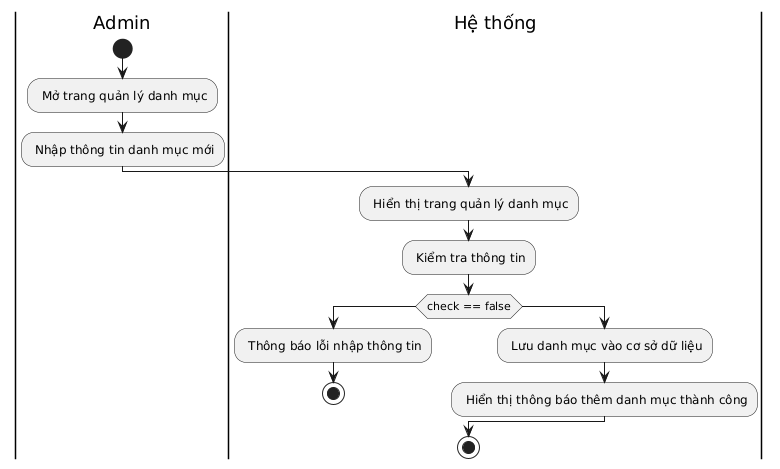
* **Nếu hợp lệ:** Tiếp tục lưu vào cơ sở dữ liệu
* **Nếu có thất bại:** Hiển thị thông báo lỗi, yêu cầu người dùng chỉnh sửa thông tin (quay về bước 5)

1. Lưu danh mục vào cơ sở dữ liệu:

* Thông tin hợp lệ sẽ được lưu vào cơ sở dữ liệu.

1. Hiển thị thông báo kết quả:

* Nếu thành công: Hiển thị thông báo "Thêm danh mục thành công".
* Nếu thất bại: Thông báo lỗi và yêu cầu người dùng thử lại.



Hình 2.19. Biểu đồ hoạt động chức năng thêm danh mục

#### **Biểu đồ hoạt động chức năng xóa danh mục**

* **Đặc tả biểu đồ hoạt động chức năng Xóa danh mục:**

**1. Tên biểu đồ hoạt động:** Xóa danh mục

**2. Mô tả chức năng:**

Chức năng này cho phép người dùng (Admin) xóa một danh mục trong hệ thống. Hệ thống yêu cầu xác nhận trước khi xóa để tránh thao tác nhầm lẫn. Nếu xóa thành công, danh mục sẽ bị loại bỏ khỏi cơ sở dữ liệu và giao diện người dùng được cập nhật.

**3. Các tác nhân liên quan:**

* Admin
* Hệ thống

**4. Các bước chi tiết:**

1. Người dùng mở trang quản lý danh mục
2. Hệ thống hiển thị trang quản lý danh mục
3. Người dùng tìm kiếm và chọn danh mục cần xóa
4. Hệ thống hiển thị hộp thoại xác nhận xóa:

* Hệ thống yêu cầu người dùng xác nhận lại hành động xóa để tránh những sai sót không mong muốn.
* Người dùng cần chọn "Xóa" hoặc "Không" xóa danh mục.

1. Người dùng xác nhận xóa
2. Hệ thống kiểm tra điều kiện trước khi xóa

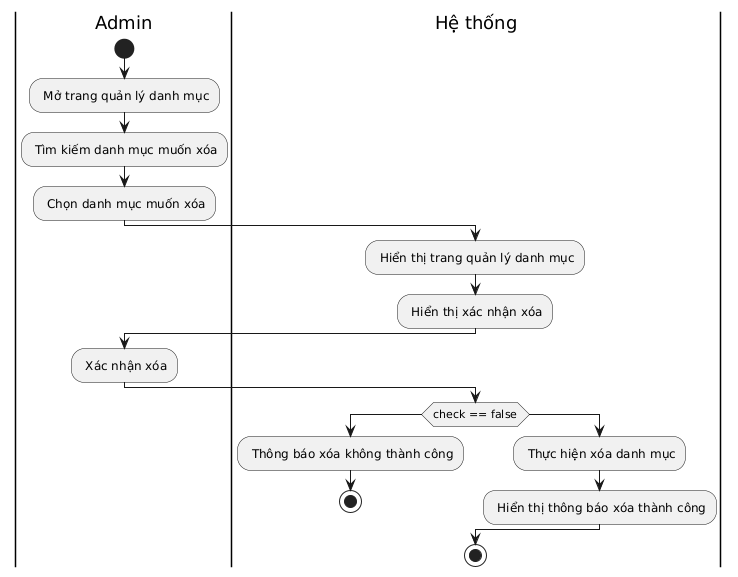
* Nếu danh mục **không chứa sản phẩm nào** → Tiếp tục xóa.
* Nếu danh mục **đang chứa sản phẩm** → Hiển thị thông báo "Không thể xóa danh mục đang chứa sản phẩm" và dừng thao tác.

1. Hệ thống thực hiện xóa danh mục khỏi cơ sở dữ liệu (nếu hợp lệ).
2. Hệ thống hiển thị thông báo kết quả:

* Nếu xóa thành công: Hiển thị thông báo "Xóa danh mục thành công".
* Nếu xóa không thành công: Hiển thị thông báo lỗi.

1. Hệ thống cập nhật giao diện người dùng:

* Làm mới danh sách danh mục để phản ánh sự thay đổi.



Hình 2.20. Biểu đồ hoạt động chức năng xóa danh mục

#### **Biểu đồ hoạt động chức năng sửa danh mục**

* **Đặc tả biểu đồ hoạt động chức năng Sửa danh mục:**

**1. Tên biểu đồ hoạt động:** Sửa danh mục

**2. Mô tả chức năng:**

Chức năng này cho phép người dùng (Admin) chỉnh sửa thông tin của một danh mục sản phẩm trong hệ thống. Hệ thống kiểm tra dữ liệu mới và cập nhật nếu hợp lệ.

**3. Các tác nhân liên quan:**

* Admin
* Hệ thống

**4. Các bước chi tiết:**

1. Người dùng mở trang quản lý danh mục
2. Hệ thống hiển thị trang quản lý danh mục
3. Người dùng tìm kiếm và chọn danh mục cần sửa
4. Hệ thống hiển thị giao diện chỉnh sửa danh mục
5. Người dùng nhập thông tin muốn chính chỉnh sửa, bao gồm:

* Tên danh mục.
* Mô tả danh mục (nếu có).

1. Người dùng click nút “Cập nhật” để gửi yêu cầu cập nhật danh mục.
2. Kiểm tra tính hợp lệ của dữ liệu:

* Tên danh mục không được để trống và chứa ký tự đặc biệt.
* Độ dài tên danh mục nằm trong giới hạn cho phép.
* Tên danh mục không được trùng với danh mục khác.

1. **Xử lý kết quả kiểm tra:**

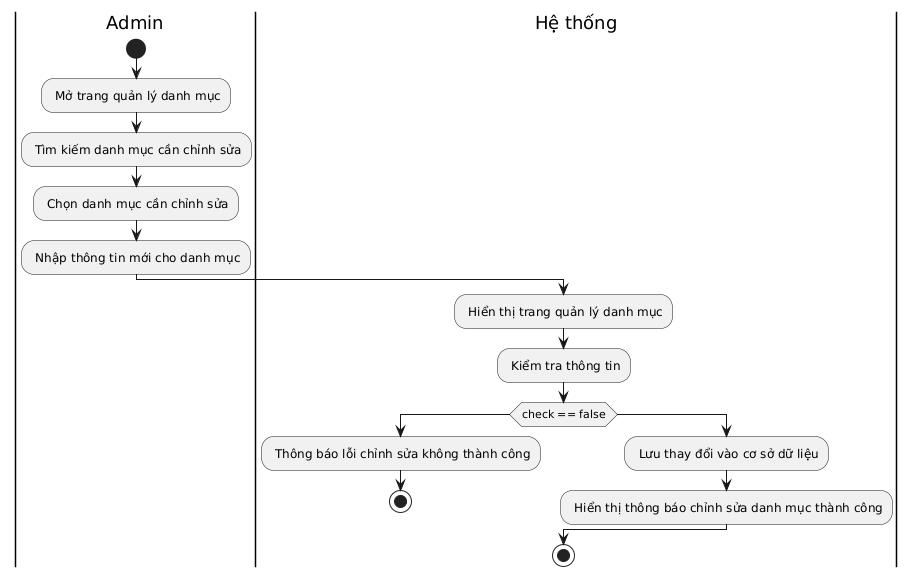
* Nếu thông tin hợp lệ: Hệ thống sẽ thực hiện cập nhật cơ sở dữ liệu.
* Nếu thất bại: Hệ thống sẽ thông báo lỗi và yêu cầu người dùng chỉnh sửa thông tin (quay lại bước 5).

1. Hệ thống cập nhật danh mục trong cơ sở dữ liệu:

* Thông tin hợp lệ sẽ được lưu vào cơ sở dữ liệu.

1. Hiển thị thông báo kết quả:

* Nếu thành công: Hiển thị thông báo "Cập nhật danh mục thành công".
* Nếu thất bại: Thông báo lỗi và yêu cầu người dùng thử lại.



Hình 2.21. Biểu đồ hoạt động chức năng sửa danh mục

#### **Biểu đồ hoạt động chức năng Thêm thương hiệu**

* **Đặc tả biểu đồ hoạt động chức năng Thêm thương hiệu:**

**1. Tên biểu đồ hoạt động:** Thêm thương hiệu

**2. Mô tả chức năng:**

Chức năng này cho phép người dùng (Admin) tạo một thương hiệu mới trong hệ thống. Hệ thống sẽ kiểm tra tính hợp lệ của thông tin trước khi lưu vào cơ sở dữ liệu. Nếu hợp lệ, thương hiệu mới sẽ được thêm thành công và hiển thị trong danh sách quản lý.

**3. Các tác nhân liên quan:**

* Admin
* Hệ thống

**4. Các bước chi tiết:**

1. Người dùng mở giao diện thêm thương hiệu
2. Hệ thống hiển thị trang quản lý thương hiệu
3. Người dùng chọn thêm thương hiệu
4. Hệ thống hiển thị giao diện thêm thương hiệu
5. Nhập thông tin thương hiệu:

* Tên thương hiệu
* Mô tả thương hiệu (nếu có)
* Logo (nếu có)

1. Người dùng nhấn nút tạo
2. Hệ thống kiểm tra tính hợp lệ của dữ liệu:

* Tên thể loại không được để trống và chứa ký tự đặc biệt.
* Tên thương hiệu không trùng lặp với các thương hiệu đã có trong hệ thống.
* Định dạng logo hợp lệ (nếu có).

1. Xử lý kết quả kiểm tra:

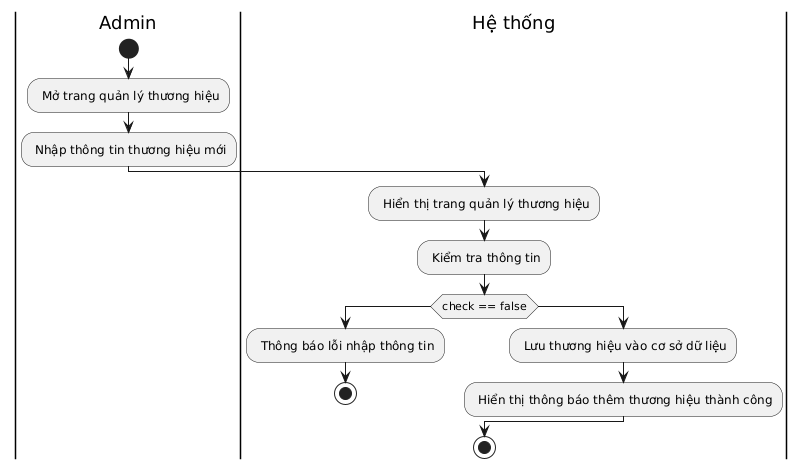
* Nếu thông tin hợp lệ: Hệ thống sẽ thực hiện bước tiếp theo
* Nếu có thất bại: Hệ thống sẽ thông báo lỗi và yêu cầu người dùng chỉnh sửa thông tin (quay về bước 5)

1. Lưu thương hiệu vào cơ sở dữ liệu:

* Thông tin hợp lệ sẽ được lưu vào cơ sở dữ liệu.

1. Hiển thị thông báo kết quả:

* Hệ thống thông báo cho người dùng biết thể loại đã được thêm thành công.



Hình 2.22. Biểu đồ hoạt động chức năng thêm thương hiệu

#### **Biểu đồ hoạt động chức năng Xóa thương hiệu**

* **Đặc tả biểu đồ hoạt động chức năng Xóa thương hiệu:**

**1. Tên biểu đồ hoạt động:** Xóa thương hiệu

**2. Mô tả chức năng:**

Người dung (Admin) thực hiện việc xóa một thương hiệu từ danh sách các thương hiệu hiện có trên hệ thống. Chức năng này bao gồm các bước từ việc chọn thương hiệu, xác nhận xóa đến cập nhật cơ sở dữ liệu để loại bỏ thương hiệu.

**3. Các tác nhân liên quan:**

* Admin
* Hệ thống

**4. Các bước chi tiết:**

1. Người dùng mở trang quản lý thương hiệu
2. Hệ thống hiển thị trang quản lý thương hiệu
3. Người dùng tìm kiếm và chọn thương hiệu cần xóa
4. Hệ thống hiển thị xác nhận xóa:

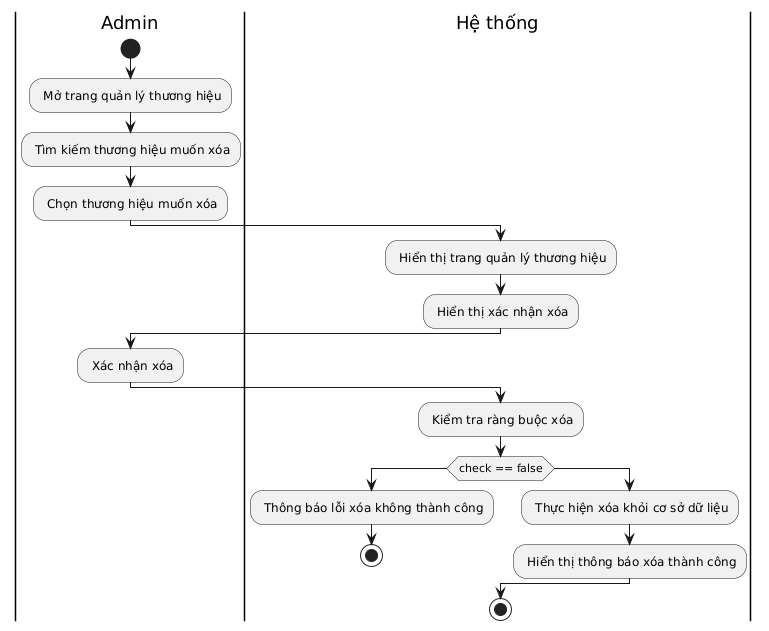
* Hệ thống yêu cầu người dùng xác nhận lại hành động xóa để sai sót.
* Người dùng cần chọn "Xóa" hoặc "Không" để xác nhận xóa thương hiệu.

1. Người dùng xác nhận xóa
2. Hệ thống thực hiện hành động xóa thương hiệu

* Nếu xóa thành công: Hệ thống sẽ xóa khỏi cơ sở dữ liệu và thông báo xóa thành công.
* Nếu xóa không thành công: Hệ thống sẽ hiển thị thông báo lỗi.

1. Cập nhật giao diện người dùng:

* Hệ thống làm mới danh sách thương hiệu để phản ánh sự thay đổi sau khi thương hiệu đã bị xóa.



Hình 2.23. Biểu đồ hoạt động chức năng xóa thương hiệu

#### **Biểu đồ hoạt động chức năng Sửa thương hiệu**

* **Đặc tả biểu đồ hoạt động chức năng Sửa thương hiệu:**

**1. Tên biểu đồ hoạt động:** Sửa thương hiệu

**2. Mô tả chức năng:**

Chức năng sửa thương hiệu cho phép người dùng (Admin) chỉnh sửa thông tin của một thương hiệu hiện có trên hệ thống. Các bước bao gồm từ việc chọn thương hiệu cần chỉnh sửa, nhập thông tin mới, xác nhận cập nhật đến khi hoàn tất việc lưu thay đổi vào cơ sở dữ liệu.

**3. Các tác nhân liên quan:**

* Admin
* Hệ thống

**4. Các bước chi tiết:**

1. Người dùng mở trang quản lý thương hiệu
2. Hệ thống hiển thị trang quản lý thương hiệu
3. Người dùng tìm kiếm và chọn thương hiệu cần chỉnh sửa
4. Hệ thống hiển thị giao diện chỉnh sửa thương hiệu
5. Người dùng nhập thông tin muốn sửa

* Tên thương hiệu.
* Mô tả thương hiệu (nếu có).
* Logo (nếu có).

1. Người dùng click nút “Cập nhật” để gửi yêu cầu cập nhật thương hiệu.
2. Kiểm tra tính hợp lệ của dữ liệu:

* Tên thể loại không được để trống và chứa ký tự đặc biệt.
* Độ dài tên thương hiệu nằm trong giới hạn cho phép.

1. **Xử lý kết quả kiểm tra**:

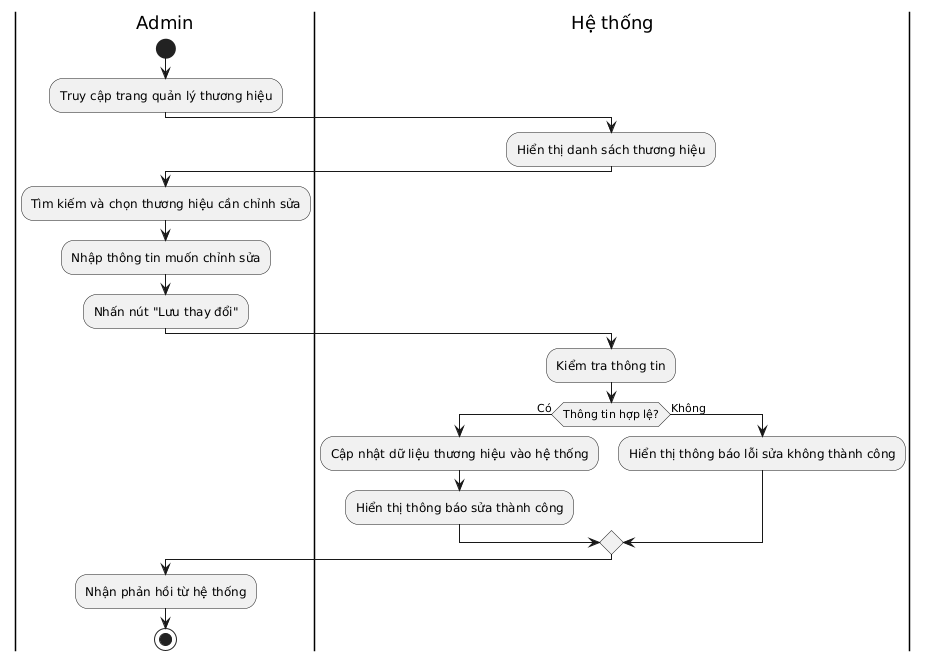
* Nếu thông tin hợp lệ: Hệ thống sẽ thực hiện cập nhật cơ sở dữ liệu.
* Nếu thất bại: Hệ thống sẽ thông báo lỗi và yêu cầu người dùng chỉnh sửa thông tin (quay lại bước 5).

1. Lưu thể loại vào cơ sở dữ liệu:

* Thông tin hợp lệ sẽ được lưu vào cơ sở dữ liệu.

1. Hiển thị thông báo kết quả:

* Hệ thống thông báo cho người dung chỉnh sửa thương hiệu đã thành công.



Hình 2.24. Biểu đồ hoạt động chức năng sửa thương hiệu

#### **Biểu đồ hoạt động chức năng Quản lý đơn hàng**

* **Đặc tả biểu đồ hoạt động chức năng Quản lý đơn hàng:**

**1. Tên biểu đồ hoạt động:** Quản lý đơn hàng

**2. Mô tả chức năng:**

Chức năng Quản lý đơn hàng cho phép Admin quản lý đơn hàng thực hiện các thao tác như xem, cập nhật trạng thái đơn hàng hoặc xóa đơn hàng. Hệ thống sẽ cập nhật dữ liệu và phản ánh sự thay đổi trên giao diện người dùng.

**3. Các tác nhân liên quan:**

* Admin
* Hệ thống

**4. Các bước chi tiết:**

1. Người dùng mở trang Quản lý đơn hàng.
2. Hệ thống hiển thị danh sách các đơn hàng.
3. Người dùng có thể tìm kiếm hoặc lọc đơn hàng theo tiêu chí (trạng thái, khách hàng, ngày đặt hàng, v.v.).
4. Người dùng chọn một đơn hàng để xem chi tiết.
5. Hệ thống hiển thị thông tin chi tiết đơn hàng.

* **Cập nhật trạng thái đơn hàng:**

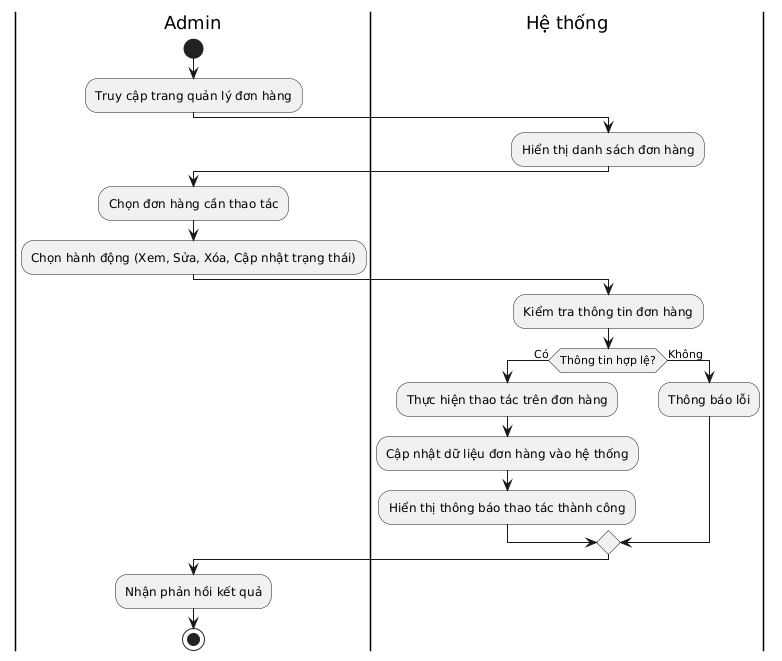
1. Nếu người dùng muốn cập nhật trạng thái đơn hàng, họ chọn trạng thái mới (đang xử lý, đã giao, đã hủy, v.v.).
2. Hệ thống kiểm **tra** dữ liệu hợp lệ:

* Nếu hợp lệ → Cập nhật trạng thái đơn hàng và thông báo thành công
* Nếu không hợp lệ → Hiển thị thông báo lỗi và yêu cầu nhập lại.
* **Xóa đơn hàng:**

1. Nếu người dùng muốn xóa đơn hàng, hệ thống hiển thị thông báo xác nhận.
2. Nếu người dùng xác nhận xóa, hệ thống sẽ kiểm tra điều kiện (chỉ xóa nếu đơn chưa giao).

* Nếu có thể xóa → Xóa khỏi hệ thống và thông báo thành công.
* Nếu không thể xóa → Hiển thị thông báo lỗi.

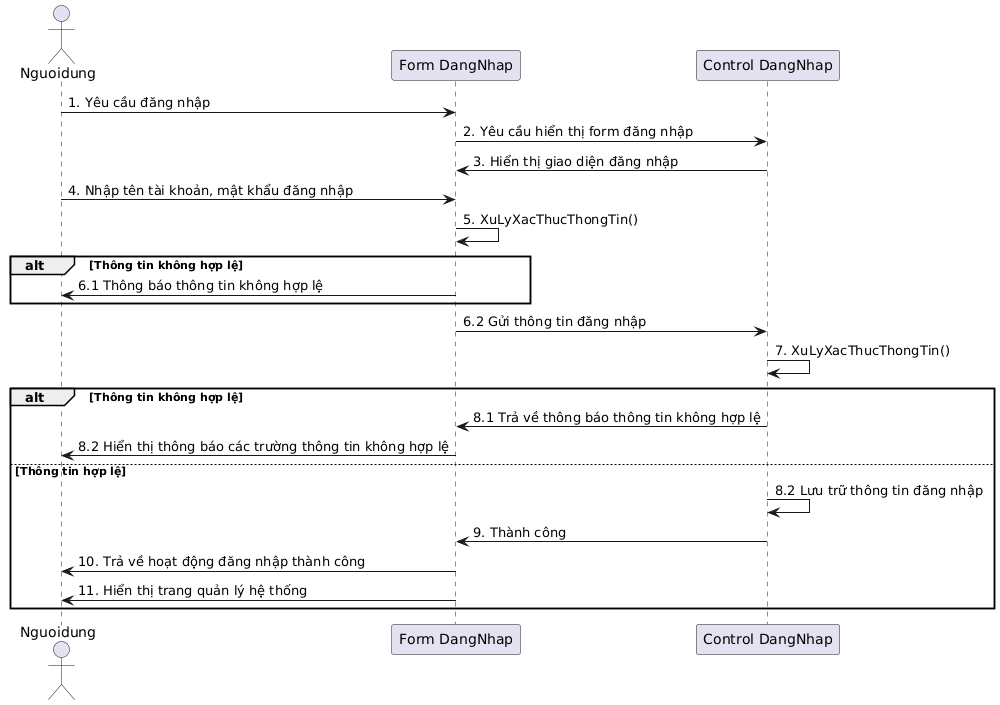
1. Hệ thống cập nhật giao diện danh sách đơn hàng sau khi thực hiện thao tác.
2. Người dùng có thể tiếp tục quản lý đơn hàng khác hoặc thoát khỏi trang.



Hình 2.25. Biểu đồ hoạt động chức năng Quản lý Đơn hàng

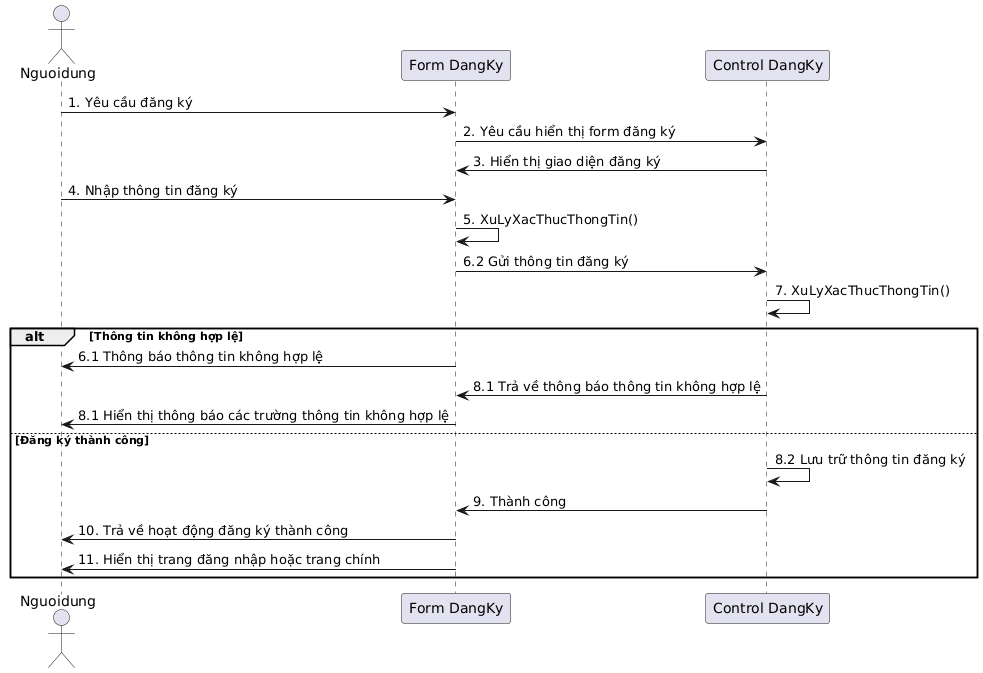
### **Xây dựng biểu đồ tuần**

#### **Biểu đồ tuần tự chức năng Đăng nhập**



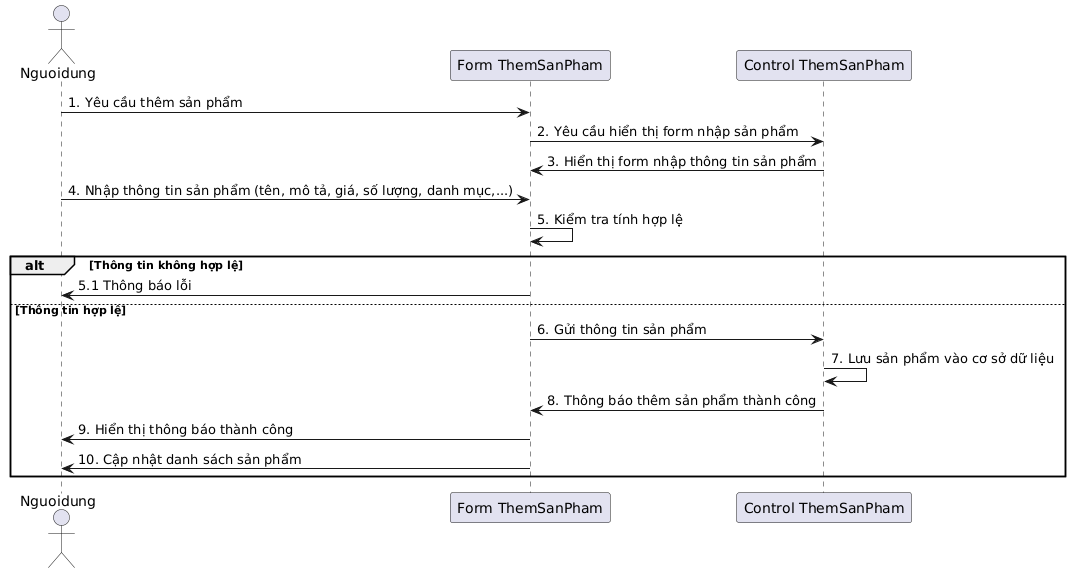
Hình 2.26. Biểu đồ tuần tự chức năng Đăng nhập

#### **Biểu đồ tuần tự chức năng Đăng ký**



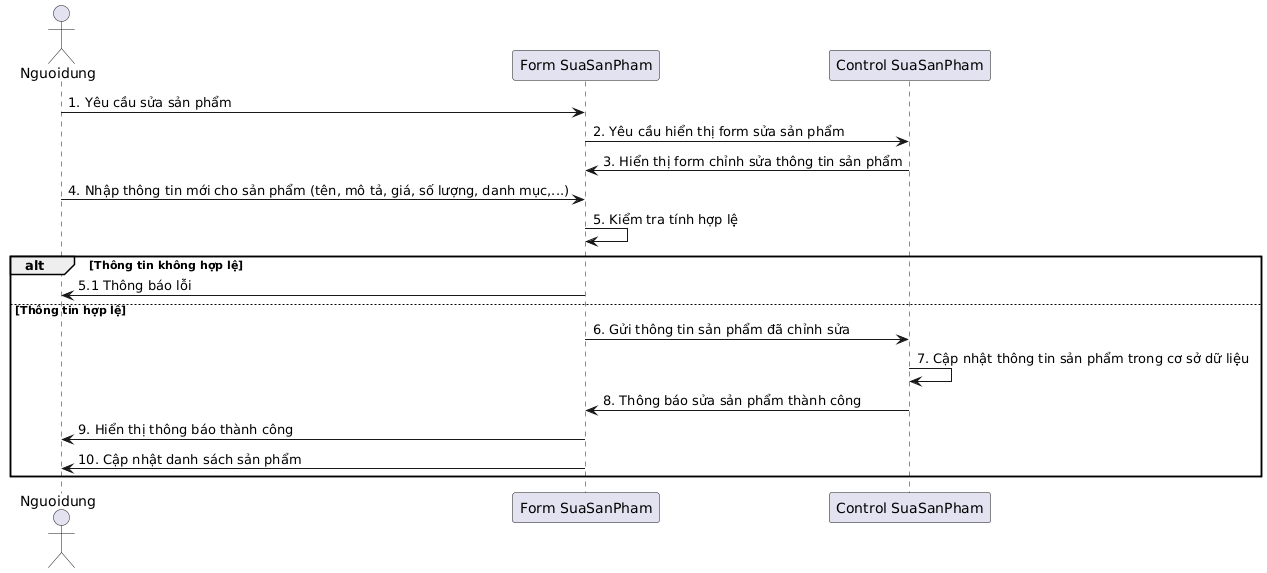
Hình 2.27. Biểu đồ tuần tự chức năng Đăng ký

#### **Biểu đồ tuần tự chức năng Thêm sản phẩm**



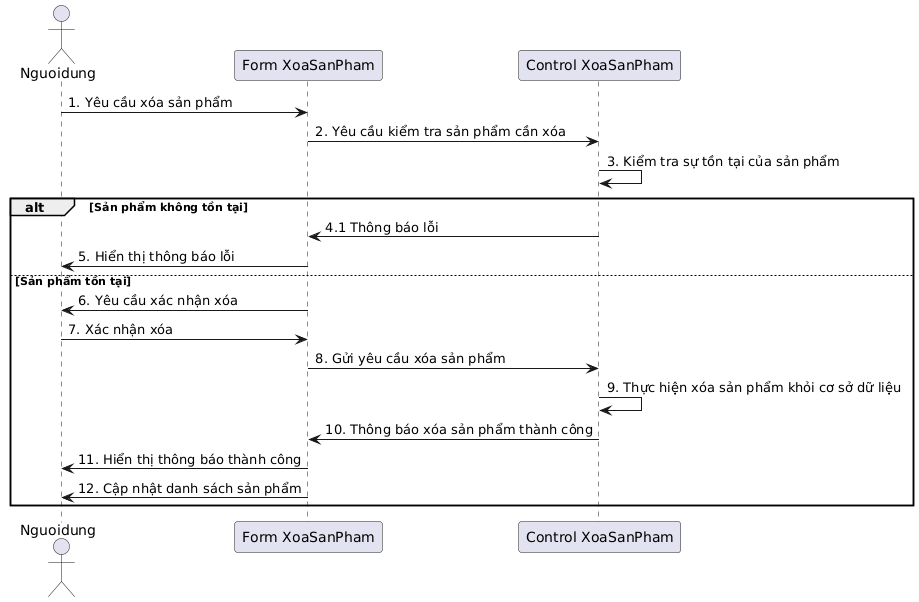
Hình 2.28. Biểu đồ tuần tự chức năng Thêm sản phẩm

#### **Biểu đồ tuần tự chức năng Sửa sản phẩm**



Hình 2.29. Biểu đồ tuần tự chức năng Sửa sản phẩm

#### **Biểu đồ tuần tự chức năng Xóa sản phẩm**



Hình 2.30. Biểu đồ tuần tự chức năng Xóa sản phẩm

#### **Biểu đồ tuần tự chức năng Quản lý đơn hàng**



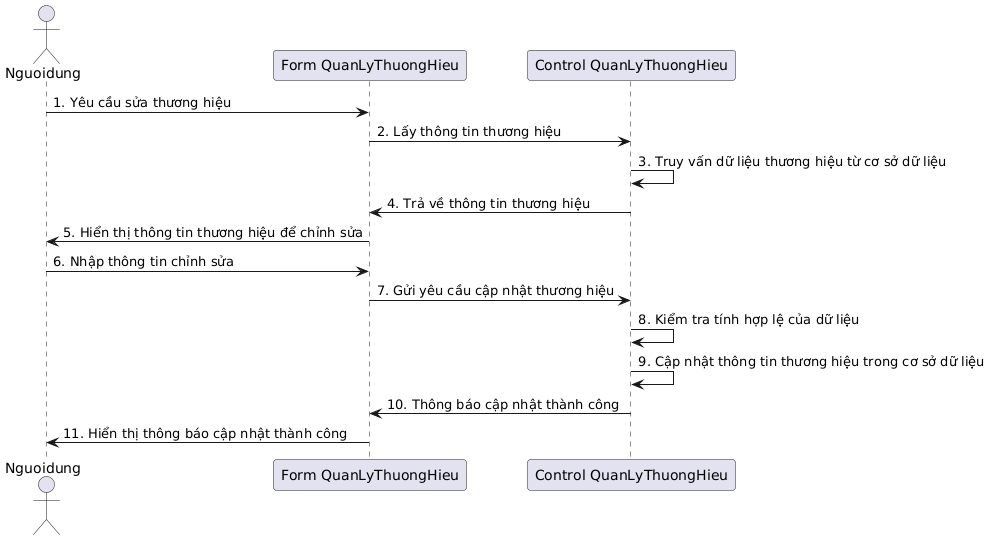
Hình 2.31. Biểu đồ tuần tự chức năng Quản lý Đơn hàng

#### **Biểu đồ tuần tự chức năng Thêm thương hiệu**



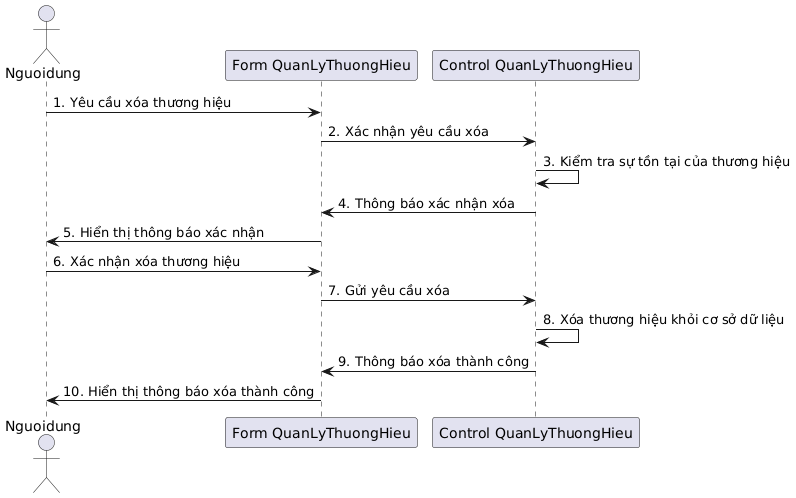
Hình 2.32. Biểu đồ tuần tự chức năng Thêm thương hiệu

#### **Biểu đồ tuần tự chức năng Sửa thương hiệu**



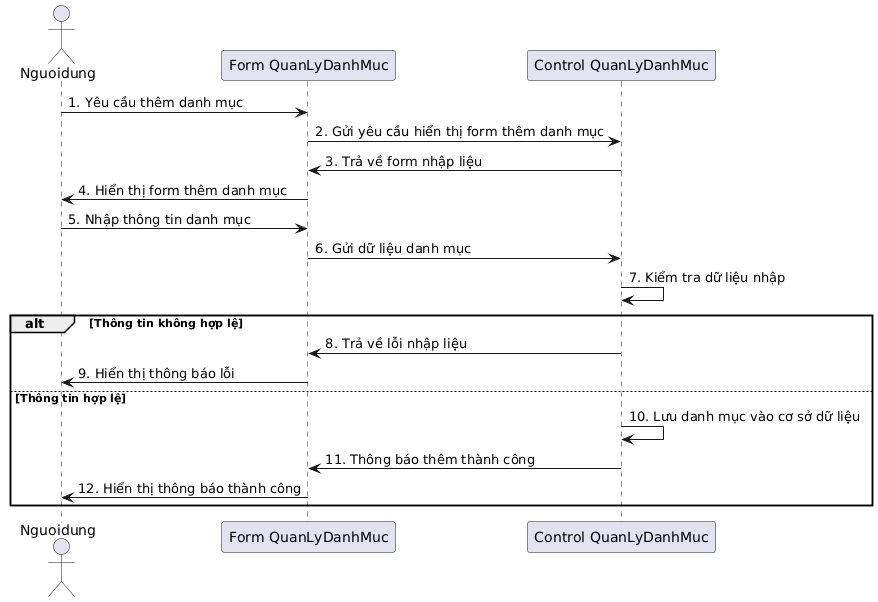
Hình 2.33. Biểu đồ tuần tự chức năng Sửa thương hiệu

#### **Biểu đồ tuần tự chức năng Xóa thương hiệu**



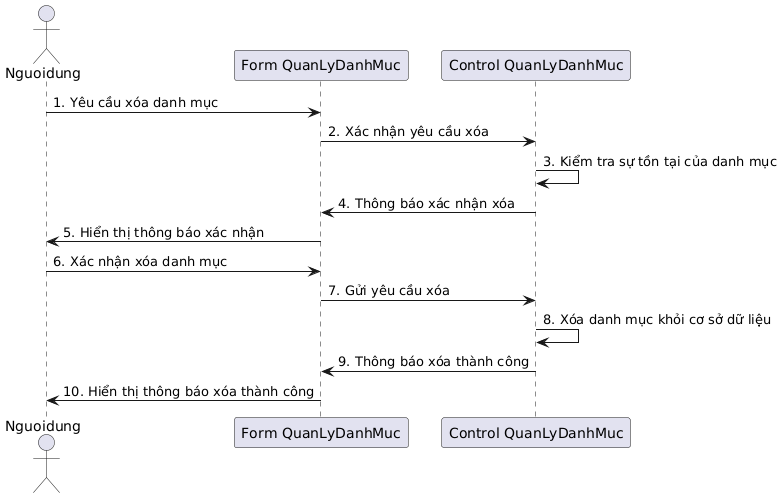
Hình 2.34. Biểu đồ tuần tự chức năng Xóa thương hiệu

#### **Biểu đồ tuần tự chức năng Thêm danh mục**



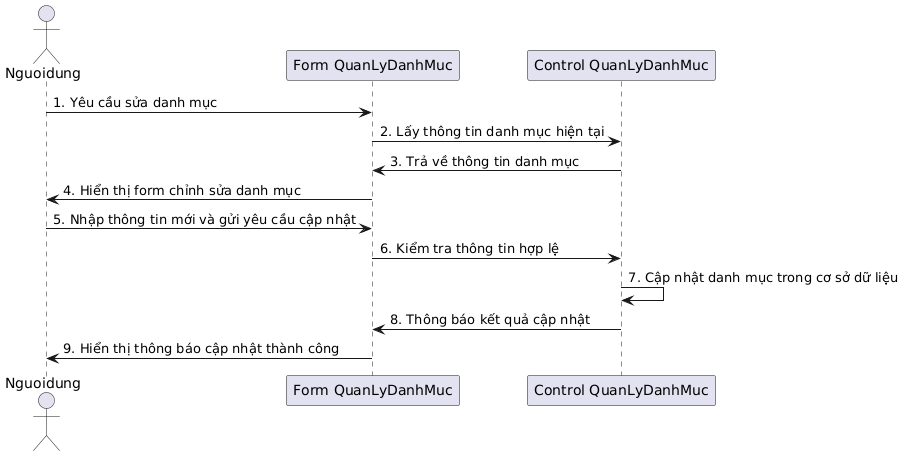
Hình 2.35. Biểu đồ tuần tự chức năng Thêm danh mục

#### **Biểu đồ tuần tự chức năng Xóa danh mục**



Hình 2.36. Biểu đồ tuần tự chức năng Xóa danh mục

#### **Biểu đồ tuần tự chức năng Sửa danh mục**



Hình 2.37. Biểu đồ tuần tự chức năng Sửa danh mục

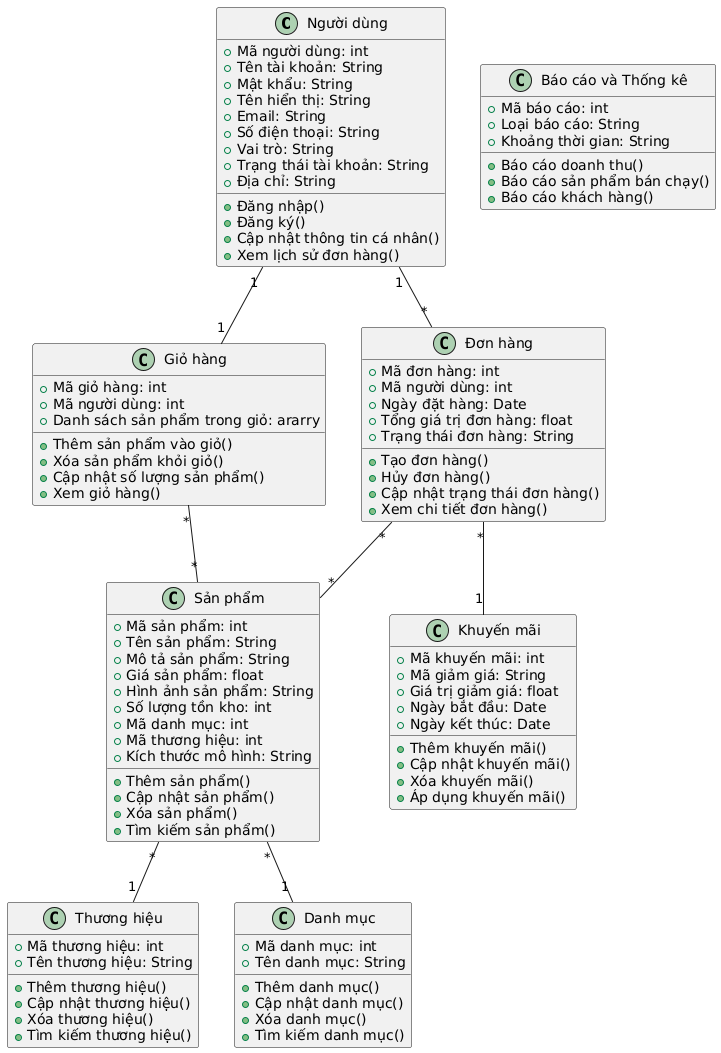
### **Xây dựng biểu đồ lớp tổng quát**

Biểu đồ lớp (Class Diagram) là một phần quan trọng trong việc mô tả cấu trúc tĩnh của hệ thống. Nó thể hiện các lớp, các thuộc tính, phương thức, và mối quan hệ giữa chúng

* **Xác định các lớp chính:**
* **Danh mục**
* Thuộc tính: Mã danh mục, Tên danh mục
* Phương thức: Thêm danh mục(), Sửa danh mục(), Xóa danh mục(), Tìm kiếm danh mục().
* **Thương hiệu**
* Thuộc tính: Mã danh mục, Tên thương hiệu.
* Phương thức: Thêm thương hiệu(), Sửa thương hiệu(), Xóa thương hiệu(), Tìm kiếm thương hiệu().
* **Người dùng**
* Thuộc tính: Mã người dung, Tên tài khoản, Mật khẩu, Tên hiển thị, Email, Số điện thoại, Vai trò (Admin, Khách hàng), Trạng thái, Địa chỉ.
* Phương thức: Đăng nhập(), Đăng ký(), Quản lý sản phẩm(), Quản lý thương hiệu(), Quản lý danh mục(), Quản lý khách hàng().
* **Sản phẩm**
* Thuộc tính: Mã sản phẩm, Tên sản phẩm, Mô tả sản phẩm, Giá sản phẩm, Hình ảnh sản phẩm, Số lượng tồn kho, Mã danh mục, Mã thương hiệu, Kích thước mô hình.
* Phương thức: Thêm sản phẩm(), Chỉnh sửa sản phẩm(), Xóa sản phẩm(), Tìm kiếm sản phẩm().
* **Giỏ hàng**
* Thuộc tính: Mã giỏ hàng, Mã người dung, Danh sách sản phẩm trong giỏ.
* Phương thức: Thêm sản phẩm vào giỏ(), Xóa sản phẩm khỏi giỏ(), Chỉnh sửa số lượng sản phẩm(), Xem giỏ hàng().
* **Đơn hàng**
* Thuộc tình: Mã đơn hàng, Mã người dùng, Ngày đặt hàng, Tổng giá trị đơn hàng, Trạng thái đơn hàng (Chờ xác nhận, Đang giao, Đã hoàn thành).
* Phương thức: Tạo đơn hàng(), Hủy đơn hàng(), Cập nhật trạng thái đơn hàng(), Xem chi tiết đơn hàng().
* **Xác định mối quan hệ giữa các lớp**

1. **Người dùng và Đơn hàng:** Mối quan hệ "Một-Nhiều", một người dùng có thể đặt nhiều đơn hàng.
2. **Người dùng và Giỏ hàng:** Mối quan hệ "Một-Một", mỗi người dùng có một giỏ hàng.
3. **Sản phẩm và Danh mục:** Mối quan hệ "Nhiều-Một", nhiều sản phẩm thuộc một danh mục.
4. **Sản phẩm và Thương hiệu:** Mối quan hệ "Nhiều-Một", nhiều sản phẩm thuộc một thương hiệu.
5. **Sản phẩm và Giỏ hàng:** Mối quan hệ "Nhiều-Nhiều", một giỏ hàng có nhiều sản phẩm và một sản phẩm có thể có trong nhiều giỏ hàng.
6. **Sản phẩm và Đơn hàng:** Mối quan hệ "Nhiều-Nhiều", một đơn hàng có nhiều sản phẩm và một sản phẩm có thể thuộc nhiều đơn hàng.
7. **Khuyến mãi và Đơn hàng:** Mối quan hệ "Một-Nhiều", một khuyến mãi có thể áp dụng cho nhiều đơn hàng.

* **Vẽ biểu đồ lớp**



Hình 2.38. Biểu đồ lớp tổng quát

# **CHƯƠNG III: THIẾT KẾ HỆ THỐNG**

## **Thiết kế cơ sở dữ liệu**

### **Thiết kế biểu đồ ER**

Để xây dựng một biểu đồ ER (Entity-Relationship Diagram) cho hệ thống cơ sở dữ liệu, chúng ta cần tuân theo các bước cụ thể để xác định các thực thể (entities), mối quan hệ (relationships), thuộc tính (attributes), và các ràng buộc (constraints):

* **Xác định thực thể (entities):**
* Người dung
* Sản phẩm
* Danh mục
* Thương hiệu
* Giỏ hang
* Đơn hàng
* **Xác định các thuộc tính (attributes):**

**Bảng Ngươi dùng (User)**

|  |  |  |
| --- | --- | --- |
| **Thuộc tính** | **Kiểu dữ liệu** | **Mô tả** |
| id | INT (PK) | Mã người dùng |
| username | VARCHAR(50) | Tài khoản đăng nhập |
| password | VARCHAR(255) | Mật khẩu |
| display\_name | VARCHAR(100) | Tên hiển thị |
| email | VARCHAR(100) | Email |
| phone\_number | VARCHAR(20) | Số điện thoại |
| status | ENUM(Active, Inactive) | Trạng thái tài khoản |
| role | VARCHAR(10) | Vai trò |
| address | VARCHAR(255) | Địa chỉ |

**Bảng Sản phẩm (Products)**

|  |  |  |
| --- | --- | --- |
| **Thuộc tính** | **Kiểu dữ liệu** | **Mô tả** |
| **id** | **INT (PK)** | **Mã sản phẩm** |
| **name** | **VARCHAR(255)** | **Tên sản phẩm** |
| **category\_id** | **INT (FK)** | **Mã danh mục** |
| **brand\_id** | **INT (FK)** | **Mã thương hiệu** |
| **price** | **DECIMAL(10,2)** | **Giá bán** |
| **stock** | **INT** | **Số lượng tồn kho** |
| **image\_url** | **TEXT** | **Hình ảnh** |
| **description** | **TEXT** | **Mô tả sản phẩm** |

**Bảng Danh mục (Categories)**

|  |  |  |
| --- | --- | --- |
| **Thuộc tính** | **Kiểu dữ liệu** | **Mô tả** |
| **id** | **INT (PK)** | **Mã danh mục** |
| **name** | **VARCHAR(100)** | **Tên danh mục** |

**Bảng Thương hiệu (Brands)**

|  |  |  |
| --- | --- | --- |
| **Thuộc tính** | **Kiểu dữ liệu** | **Mô tả** |
| **id** | **INT (PK)** | **Mã thương hiệu** |
| **name** | **VARCHAR(100)** | **Tên thương hiệu** |

**Bảng Giỏ hàng (Cart)**

|  |  |  |
| --- | --- | --- |
| **Thuộc tính** | **Kiểu dữ liệu** | **Mô tả** |
| **id** | **INT (PK)** | **Mã giỏ hàng** |
| **user\_id** | **INT (FK)** | **Mã người dùng** |
| **product\_id** | **INT (FK)** | **Mã sản phẩm** |
| **quantity** | **INT** | **Số lượng sản phẩm** |

**Bảng Đơn hàng (Orders)**

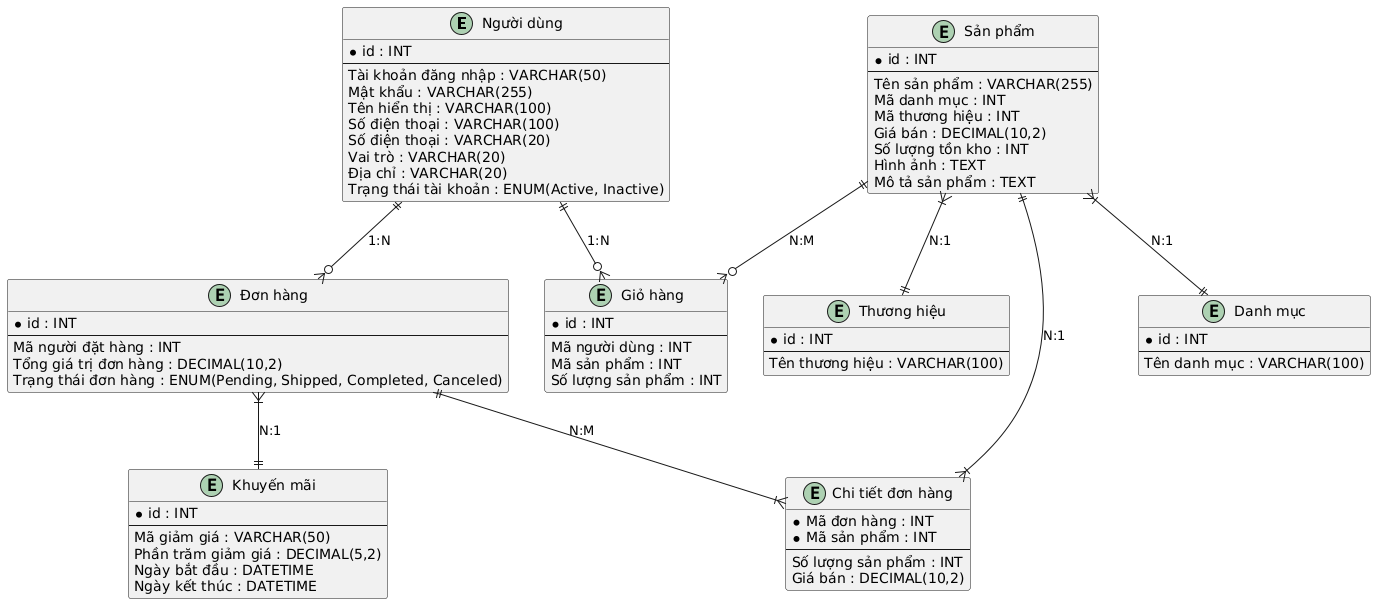
|  |  |  |
| --- | --- | --- |
| **Thuộc tính** | **Kiểu dữ liệu** | **Mô tả** |
| **id** | **INT (PK)** | **Mã đơn hàng** |
| **user\_id** | **INT (FK)** | **Mã người đặt hàng** |
| **total\_price** | **DECIMAL(10,2)** | **Tổng giá trị đơn hàng** |
| **status** | **ENUM(Pending, Shipped, Completed, Canceled)** | **Trạng thái đơn hàng** |

**Bảng Chi tiết đơn hàng (Order\_Details)**

|  |  |  |
| --- | --- | --- |
| **Thuộc tính** | **Kiểu dữ liệu** | **Mô tả** |
| **order\_id** | **INT (FK)** | **Mã đơn hàng** |
| **product\_id** | **INT (FK)** | **Mã sản phẩm** |
| **quantity** | **INT** | **Số lượng sản phẩm** |
| **price** | **DECIMAL(10,2)** | **Giá bán** |

**Bảng Khuyến mãi (Promotions)**

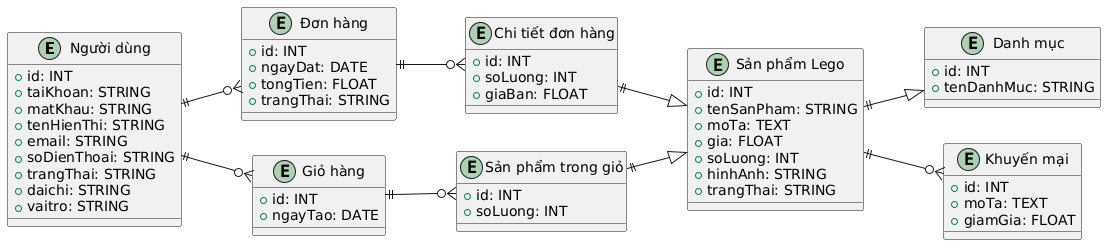
|  |  |  |
| --- | --- | --- |
| **Thuộc tính** | **Kiểu dữ liệu** | **Mô tả** |
| **id** | **INT (PK)** | **Mã khuyến mãi** |
| **code** | **VARCHAR(50)** | **Mã giảm giá** |
| **discount** | **DECIMAL(5,2)** | **Phần trăm giảm giá** |
| **start\_date** | **DATETIME** | **Ngày bắt đầu** |
| **end\_date** | **DATETIME** | **Ngày kết thúc** |

* **Vẽ Biểu Đồ ER**

Hình 3.1 Bảng thiết kế biểu đồ ER

* **Xác định các mối quan hệ (Relationships)**
* **Người dùng và đơn hàng:** Một người dùng có thể đặt nhiều đơn hàng (1:N).
* **Đơn hàng và chi tiết đơn hàng**: Một đơn hàng có thể chứa nhiều sản phẩm và một sản phẩm có thể xuất hiện trong nhiều đơn hàng (N:M).
* **Sản phẩm và danh mục:** Một sản phẩm chỉ thuộc một danh mục (N:1).
* **Sản phẩm và thương hiệu:** Một sản phẩm thuộc một thương hiệu duy nhất (N:1).
* **Người dùng và giỏ hàng:** Một người dùng có thể có nhiều sản phẩm trong giỏ hàng (1:N).
* **Sản phẩm và giỏ hàng:** Một sản phẩm có thể được thêm vào giỏ hàng nhiều lần bởi nhiều người dùng (N:M).
* **Đơn hàng và khuyến mãi:** Một đơn hàng có thể áp dụng một mã khuyến mãi (N:1).

### **Thiết kế cở sở dữ liệu mức vật lý**



Hình 3.2. Bảng cơ sở dữ liệu mức vật lý