![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”***

**Ngành: CNTT/LTMT**

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|  |  |
| --- | --- |
| **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:*

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

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

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

* 1. *Đảm bảo chuyên cần:*

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

* 1. *Thái độ đối trong công việc:*

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

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

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| * 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):

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

**KẾ HOẠCH THỰC TẬP**

Họ và tên SV: Lớp-khóa:

MSSV:

Số ĐT: Email:

**Danh sách thành viên nhóm:**

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| **Stt** | **Họ và tên** | **Điện thoại** | **Ghi chú** |
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**1. Nội dung thực tập: (tên đề tài)**

**2. Nhiệm vụ cá nhân:**

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| **Stt** | **Họ và tên** | **Nhiệm vụ** | **Ghi chú** |
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**3. Kế hoạch thực hiện**

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| **Ngày thực hiện** | **Công việc triển khai cụ thể** | **Kết quả đạt được *(theo tỷ lệ %)*** | **Ghi chú** |
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# **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, website sử dụng các công nghệ hiện đại để xây dựng giao diện người dùng và các chức năng cốt lõi. Các công nghệ chính bao gồm:

* **Ngôn ngữ lập trình**: HTML, CSS và JavaScript được sử dụng để xây dựng giao diện người dùng và đảm bảo tính tương tác cao.
* **Frameworks**:
  + **NodeJS**: Sử dụng cho việc phát triển các ứng dụng phía server.
  + **ReactJS**: Framework JavaScript mạnh mẽ cho việc xây dựng các giao diện người dùng động và phản hồi nhanh.
  + **TailwindCSS**: Framework CSS giúp tăng tốc quá trình thiết kế giao diện đẹp và dễ dàng tuỳ chỉnh.
* **Công cụ phát triển**: **Visual Studio Code** được sử dụng như môi trường phát triển chính, với các tiện ích hỗ trợ mã nguồn mở và các plugin mạnh mẽ giúp tăng hiệu quả công việc.
  + 1. **Môi Trường Phát Triển**

Giai đoạn kiểm thử tập trung vào việc đảm bảo chất lượng website trước khi đưa vào sử dụng thực tế:

* Selenium: Sử dụng để kiểm thử tự động giao diện người dùng, đảm bảo tính tương thích và chức năng chính xác trên các trình duyệt khác nhau.
* PyTest và PHPUnit: Các công cụ này giúp kiểm thử đơn vị (unit testing) và kiểm thử tích hợp (integration testing), giúp phát hiện sớm các lỗi trong mã nguồn và đảm bảo các module của website tương tác chính xác với nhau.
  + 1. **Môi Trường Triển Khai**

Sau khi kiểm thử thành công, website được triển khai vào môi trường thực tế:

* **Hệ điều hành**: Website được lưu trữ trên dịch vụ **AWS (Amazon Web Services)**, với hệ điều hành **Linux (Ubuntu)** cho máy chủ, giúp đảm bảo tính ổn định và khả năng mở rộng.
* **Web server**: **Nginx** được sử dụng làm web server để xử lý các yêu cầu HTTP từ người dùng, giúp cải thiện hiệu suất và khả năng xử lý lưu lượng truy cập lớn.
* **Cơ sở dữ liệu**: **Mongoose** quản lý cơ sở dữ liệu thông tin sản phẩm và dữ liệu người dùng, giúp truy vấn dữ liệu nhanh chóng và chính xác.
  + 1. **Môi Trường Sản Xuất**

Trong giai đoạn sản xuất, website được tối ưu hóa để đáp ứng nhu cầu sử dụng thực tế của người dùng:

* **Content Delivery Network (CDN)**: CDN giúp tăng tốc độ tải trang bằng cách phân phối nội dung từ các máy chủ gần người dùng hơn, giúp giảm độ trễ và tăng trải nghiệm người dùng.
* **Caching**: Các công cụ như **Redis** hoặc **Memcached** được sử dụng để lưu trữ tạm thời các dữ liệu truy vấn thường xuyên, giảm tải cho máy chủ cơ sở dữ liệu và tối ưu hóa hiệu suất website.
* **Bảo mật và khả năng mở rộng**: Website được thiết kế để đảm bảo an toàn bảo mật thông qua mã hóa và xác thực người dùng, đồng thời có khả năng mở rộng để đáp ứng nhu cầu người dùng ngày càng tăng.
  + 1. **Tổng Quan**

Môi trường hoạt động của website bán mô hình Lego trực tuyến được thiết kế khoa học và chi tiết, từ phát triển cho đến khi đưa vào vận hành. Các công nghệ và công cụ sử dụng không chỉ giúp tối ưu hóa hiệu suất và bảo mật mà còn đảm bảo khả năng mở rộng của hệ thống trong tương lai.

## **Khảo sát bài toán**

1. **Giới thiệu về bài toán:**

Trong thời đại công nghệ số phát triển mạnh mẽ, mua sắm trực tuyến đã trở thành một xu hướng phổ biến, đặc biệt là đối với các sản phẩm mang tính sưu tầm và đam mê như mô hình LEGO. Tuy nhiên, nhiều website bán mô hình tại Việt Nam vẫn chưa tối ưu về trải nghiệm người dùng, giao diện thiếu trực quan, tìm kiếm sản phẩm chưa linh hoạt, thông tin sản phẩm chưa đầy đủ, và quy trình mua hàng còn phức tạp.

Chính vì vậy, hệ thống **website bán mô hình LEGO** được xây dựng nhằm cung cấp một nền tảng thương mại điện tử chuyên biệt dành cho những người yêu thích LEGO. Hệ thống sẽ hỗ trợ khách hàng dễ dàng tìm kiếm, lựa chọn và mua sắm các sản phẩm LEGO một cách nhanh chóng, tiện lợi và an toàn.

1. **Yêu cầu của người dùng:**

* **Tìm kiếm và bộ lọc sản phẩm**:
* Người dùng có thể tìm kiếm sản phẩm bằng từ khóa, danh mục, thương hiệu.
* Bộ lọc phẩm theo danh mục, thương hiệu, độ tuổi, mức độ khó.
* **Xem thông tin chi tiết sản phẩm**:
* Hình ảnh sản phẩm sắc nét, video hướng dẫn (nếu có).
* Hiển thị mô tả chi tiết sản phẩm.
* Hiển thị giá bán, chính sách bảo hàng và thông tin về trạng thái sản phẩm (còn hàng, hết hàng).
* **Truy cập và mua sắm**:
* Website phải có tốc độ tải nhanh, mượt mà.
* Giao diện đơn giản, dễ sử dụng ngay cả với người mới.
* Quá trình mua sắm, đặt hàng thuận tiện, không mất nhiều bước.
* **Thanh Toán An Toàn và bảo mật**:
* Phương thức thanh toán:
* Ví điện tử (Momo, VNPay, v.v.v.).
* Thanh toán khi nhận hàng (COD).
* Bảo mật thông tin giao hàng, mã hóa liệu.
* **Quản Lý Tài Khoản và Đơn Hàng:**
* Khách hàng có thể đăng ký tài khoản, lưu thông tin cá nhân.
* Xem lịch sử mua hàng, trạng thái đơn hàng, hủy đơn (nếu cần).

1. **Phân tích chức năng cần có:**

* **Chức năng dành cho khách hàng**
* **Đăng ký, đăng nhập, quên mật khẩu**: Người dùng có thể tạo tài khoản, đăng nhập hoặc khôi phục mật khẩu nếu quên.
* **Quản lý giỏ hàng**:
* Thêm, xóa, cập nhật số lượng sản phẩm trong giỏ hàng.
* Tính toán tổng tiền và hiển thị phí vận chuyển nếu có.
* Hỗ trợ nhiều phương thức thanh toán (COD, thẻ tín dụng, ví điện tử).
* **Xem thông tin chi tiết sản phẩm**: Hiển thị đầy đủ thông tin như hình ảnh, giá cả, mô tả, số lượng còn trong kho.
* **Tìm kiếm sản phẩm**:
* Tìm kiếm theo từ khóa, danh mục, thương hiệu.
* Lọc sản phẩm theo danh mục, thương hiệu, độ tuổi, mức độ khó.
* **Quản lý đơn hàng:**
* Xem lịch sử mua hàng, trang thái đơn hàng.
* Hủy đơn hàng trong thời gian quy định.
* **Chức năng dành cho Admin**
* **Quản lý sản phẩm**:
* Thêm, chỉnh sửa, xóa sản phẩm.
* Cập nhật thông tin sản phẩm.
* **Quản lý danh mục**:
* Thêm, chỉnh sửa, xóa danh mục.
* **Quản lý size:**
* Thêm, chỉnh sửa, xóa danh mục.
* **Quản lý thương hiệu:**
* Thêm, chỉnh sửa, xóa thương hiệu.
* **Quản lý đơn hàng:**
* Xử lý, xác nhận, theo dõi đơn hàng.
* Quản lý trạng thái đơn hàng (đã xác nhận, đang giao, đã nhận).
* **Quản lý khách hàng:**
* Xem danh sách khách hàng, khóa tài khoản khách hàng nếu vi phạm chính sách.
* **Quản lý khuyến mại:**
* Tạo mã giảm giá, chương trình khuyến mại.
* **Thống kê và báo cáo:**
* Doanh số bán hàng theo ngày/tháng.
* Sản phẩm bán chạy.

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

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| **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 (Momo, ZaloPay…), 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 chức năng:**

* **Đăng nhập và quản lý tài khoản người dùng**:
* **Khách hàng:**
* Đăng ký/Đăng nhập tài khoản.
* Quản lý thông tin cá nhân.
* Quản lý đơn hàng.
* **Admin**: có quyền quản lý tất cả các chức năng của website như thêm, sửa, xóa sản phẩm, quản lý đơn hàng và Customer v.v.v.
* **Quản lý sản phẩm**:
* **Thêm sản phẩm mới**: Admin có thể thêm sản phẩm mới vào hệ thống, bao gồm tên sản phẩm, mô tả, hình ảnh, giá và số lượng.
* **Chỉnh sửa sản phẩm**: Admin có thể chỉnh sửa thông tin sản phẩm và trạng thái sản phẩm.
* **Xóa sản phẩm**: Admin có thể xóa các sản phẩm không còn bán hoặc lỗi thời.
* **Quản lý đơn hàng:**
* **Khách hàng:**
* Người dùng có thể xem chi tiết đơn hàng của mình, bao gồm trạng thái, phương thức thanh toán và thời gian giao hàng.
* Theo dõi trạng thái đơn hàng (chờ xác nhận, đang giao, đã giao)
* **Admin**:
* Admin có thể xử lý và thay đổi trạng thái của đơn hàng từ "Đang chờ" đến "Đã giao" hoặc "Đã hủy".
* **Quản lý giỏ hàng:**
* Thêm sản phẩm vào giỏ hang từ trang danh sách hoặc trang chi tiết sản phẩm.
* Chỉnh sửa giỏ hàng tăng/giảm số lượng, xóa sản phẩm.
* Tính tổng tiền tự động khi có thay đổi trong giỏ hàng.
* Hỗ trợ phương thức thanh toán: ví điện tử, COD.
* **Quản lý khuyến mãi:**
* **Thêm mã giảm giá**: Admin có thể tạo mã giảm giá cho các sản phẩm hoặc toàn bộ đơn hàng.
* **Áp dụng mã giảm giá**: Customer có thể nhập mã giảm giá khi thanh toán để được giảm giá.
* **Quản lý khách hàng**:
* Admin có thể xem thông tin Customer, khóa tài khoản khách hàng nều vi phạm chính sách.
* **Thống kê và báo cáo:**
* Doanh thu theo ngày/tháng/năm.
* Số lượng đơn hàng và sản phẩm bán chạy.

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

* **Thiết kế giao diện:**
* **Thân thiện và dễ sử dụng:**
* Giao diện được thiết kế trực quan, đơn giản nhưng hiện đại, giúp người dùng dễ dàng thao tác.
* Các danh mục sản phẩm bố trí rõ ràng.
* Màu sắc hài hòa, phú hợp với thương hiệu.
* Font chữ dễ đọc, kích thước phù hợp hiển thị tốt trên mọi thiết bị.
* **Đáp ứng (Responsive):**
* Thiết kế linh hoạt, có thể hiển thị tốt trên máy tính, điện thoại, máy tính bảng.
* Menu điều hướng linh hoạt, có thể chuyển sang dạng thanh trượt (hamburger menu) trên thiết bị di động.
* **Trải nghiệm người dùng:**
* **Tìm kiếm sản phẩm:**
* Tìm kiếm theo tên sản phẩm, danh mục, thương hiệu.
* **Tối ưu hóa giỏ hàng**:
* Giỏ hàng có thể truy cập từ bất kỳ trang nào.
* Thao tác đơn giản:
* Thêm vào giỏ hang từ trang danh sách sản phẩm.
* Có thể sửa số lượng hoặc xóa sản phẩm trong giỏ hàng một cách dễ dàng.
* Cập nhật tổng tiền ngay sau khi thay đổi số lượng.
* Thanh toán nhanh chóng: Hỗ trợ phương thức thanh toán (ví điện tử, COD)

## **Công cụ lập trình**

* HTML, CSS, JavaScript: Sử dụng các công nghệ cơ bản để xây dựng giao diện người dùng.
* Framework: ReactJS, NodeJS, TailwindCSS
* Datebase: Mongoose
* Text editro: VS code.

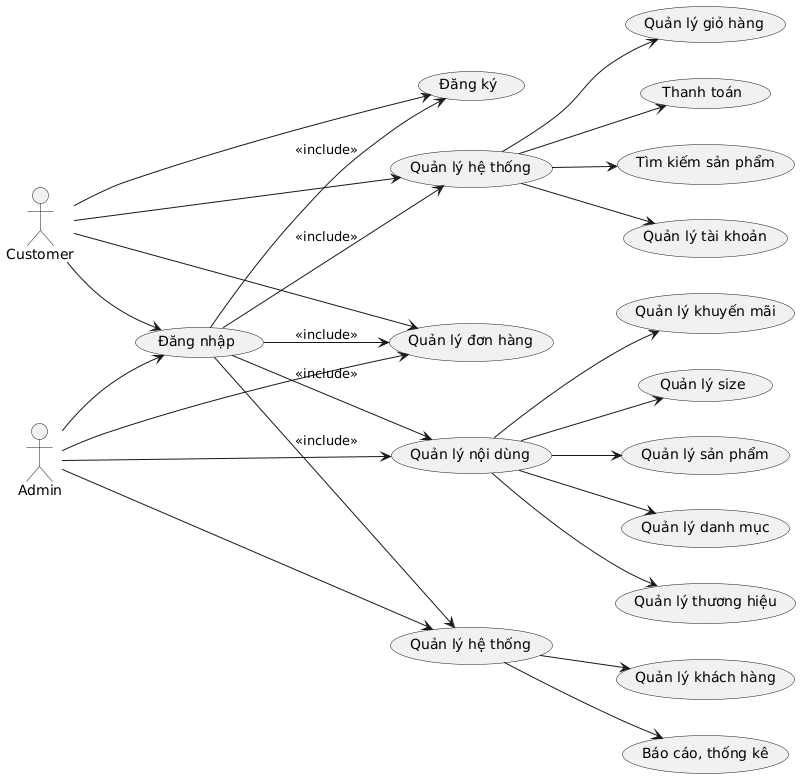
# **CHƯƠNG II: PHÂN TÍCH HỆ THỐNG**

## **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, truy cập: * Có quyền truy cập cao nhất để quản lý và duy trì hệ thống. * Quản lý nội dung: * Quản lý Sản phẩm * Quản lý Danh mục * Quản lý Thương hiệu * Quản lý Đơn hàng * Quản lý size * Quản lý Khuyến mại * Quản lý hệ thống: * Quản lý khách hàng * Báo cáo, thống kê |
| **Customer** | * Đăng nhập, Đăng ký * Quản lý nội dung * Quản lý Tài khoản * Quản lý Giỏ hàng * Quản lý đơn hàng |



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

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

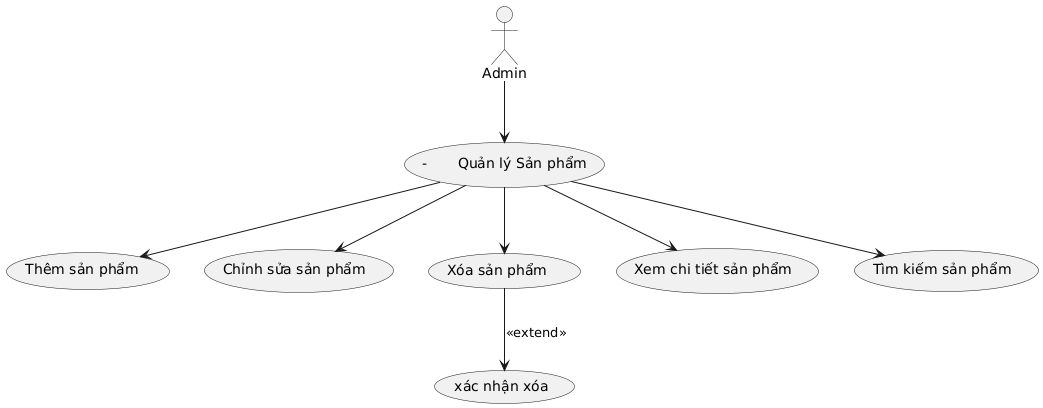
#### PlantUML Diagram**Biểu đồ usecase phân rã Đăng nhập:**

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

* Đặc tả use case Đăng nhập:

|  |  |
| --- | --- |
| **Usecase** | * Đăng nhập |
| **Actor** | * Người dùng (Admin, Customer) |
| **Mô tả** | * Use Case này cho phép người dùng (Admin, Customer) 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 thốn. * 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. Hệ thống xác định quyền hạn của người dung:  * Nếu là **Admin**, chuyển đến trang quản trị. * Nếu là **Customer**, chuyển đến trang chính của khách hàng.  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 phú.** * 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:**



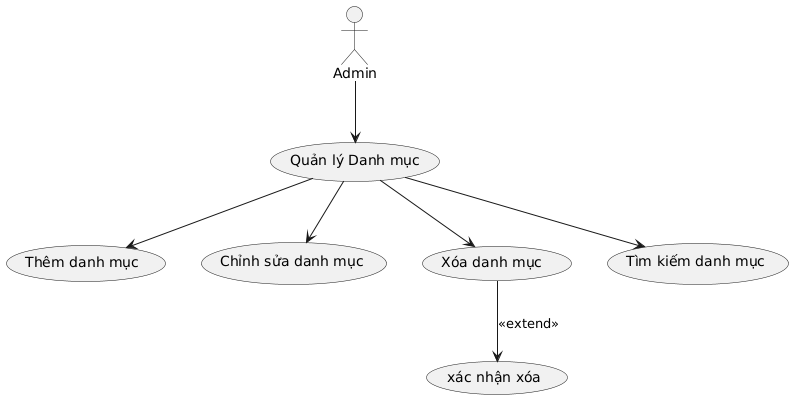
Hình 2.3. Xây dựng biểu đồ usecase phân rã Quản lý Sản phẩm

* 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 thêm mới, chỉnh sửa, xóa, xem danh sách sản phẩm, tìm kiếm sản phẩm và xem chi tiết sản phẩm. |
| **Điều kiện kiên quyết** | * Admin đã đăng nhập vào hệ thống với quyền quản lý sản phẩm. * Danh mục sản phẩm và thương hiệu đã tồn tại trong hệ thống. |
| **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 tên sản phẩm, mô tả, giá, danh mục, thương hiệu, số lượng, hình ảnh, trạng thái. * Hệ thống kiểm tra dữ liệu hợp lệ và lưu vào cơ sở dữ liệu. * **Chỉnh sửa sản phẩm:** * Chọn một sản phẩm từ danh sách. * Thay đổi thông tin sản phẩm và lưu lại. * **Xóa sản phẩm:** * Chọn sản phẩm cần xóa. * Hệ thống kiểm tra nếu sản phẩm đang có đơn hàng thì hiển thị cảnh báo. * Nếu không, hệ thống xóa sản phẩm khỏi cơ sở dữ liệu. * **Xem chi tiết sản phẩm:** Admin chọn một sản phẩm để xem thông tin chi tiết. * **Tìm kiếm sản phẩm:** Hệ thống hiển thị danh sách sản phẩm phù hợp với từ khóa tìm kiếm  1. Hệ thống cập nhật dữ liệu và hiển thị danh sách mới. 2. **Kết thúc:** Admin thoát khỏi chức năng quản lý sản phẩm. |
| **Luồng sự kiện phụ** | **Xác nhận xóa sản phẩm:**   * Nếu Admin chọn xóa sản phẩm, hệ thống hiển thị cảnh báo. * Nếu sản phẩm đang có trong đơn hàng hoặc giỏ hàng, hệ thống từ chối xóa.   **Kiểm tra trùng sản phẩm:**   * Nếu tên sản phẩm đã tồn tại, hệ thống yêu cầu nhập tên khác.   **Xử lý lỗi nhập dữ liệu:**   * Nếu Admin nhập thiếu thông tin, hệ thống hiển thị thông báo lỗi. |
| **Điều kiện đầu ra** | **Thành công**:   * Sản phẩm được thêm, chỉnh sửa, xóa hoặc hiển thị chính xác. * Danh sách sản phẩm trong hệ thống được cập nhật đúng.   **Thất bại**:   * Lỗi kết nối hoặc hệ thống không thể lưu dữ liệu. * Sản phẩm đang được sử dụng nên không thể xóa. * Nhập dữ liệu không hợp lệ hoặc trùng lặp. |

#### 

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

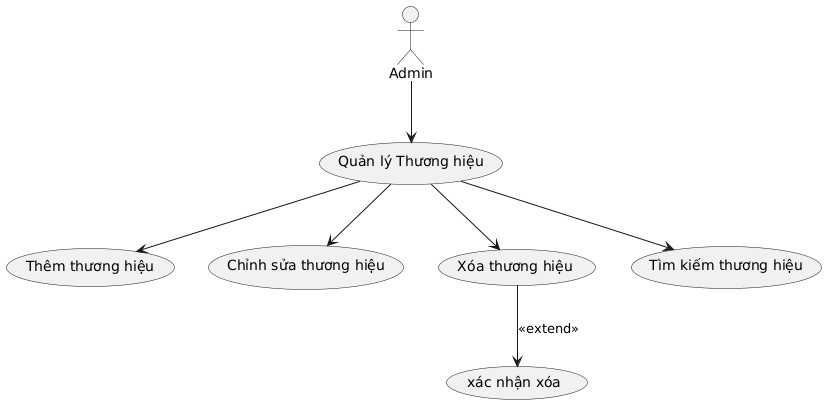


Hình 2.4. Xây dựng biểu đồ usecase phân rã Quản lý Danh mục

* 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 thêm mới, chỉnh sửa, xóa, xem danh sách danh mục và tìm kiếm danh mục. |
| **Điều kiện đầu vào** | * Admin đã đăng nhập vào hệ thống với quyền quản lý danh mục. |
| **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 tên danh mục, mô tả (nếu có). * Hệ thống kiểm tra dữ liệu hợp lệ và lưu vào cơ sở dữ liệu. * **Chỉnh sửa danh mục:** * Chọn một danh mục từ danh sách. * Thay đổi thông tin danh mục và lưu lại. * **Xóa danh mục:** * Chọn danh mục cần xóa. * Hệ thống kiểm tra nếu danh mục đang được sử dụng trong sản phẩm thì hiển thị cảnh báo. * Nếu không, hệ thống xóa danh mục khỏi cơ sở dữ liệu. * **Tìm kiếm Danh mục:** Hệ thống hiển thị danh sách sản phẩm phù hợp với từ khóa tìm kiếm  1. Hệ thống cập nhật dữ liệu và hiển thị danh sách mới. 2. **Kết thúc**: Admin thoát khỏi chức năng quản lý danh mục. |
| **Luồng sự kiện phụ** | **Xác nhận xóa danh mục:**   * Nếu Admin chọn xóa danh mục, hệ thống hiển thị cảnh báo. * Nếu danh mục đang được gán cho sản phẩm, hệ thống yêu cầu đổi danh mục trước khi xóa.   **Kiểm tra trùng danh mục:**   * Nếu tên danh mục đã tồn tại, hệ thống yêu cầu nhập tên khác.   **Xử lý lỗi nhập dữ liệu:** Nếu Admin nhập thiếu thông tin, hệ thống hiển thị thông báo lỗi. |
| **Điều kiện đầu ra** | **Thành công:**   * Danh mục được thêm, chỉnh sửa, xóa hoặc hiển thị chính xác. * Danh sách danh mục trong hệ thống được cập nhật đúng.   **Thất bại:**   * Lỗi kết nối hoặc hệ thống không thể lưu dữ liệu. * Danh mục đang được sử dụng nên không thể xóa. * 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 thêm mới, chỉnh sửa, xóa, xem danh sách thương hiệu và tìm kiếm thương hiệu. |
| **Điều kiện đầu vào** | * Admin đã đăng nhập vào hệ thống với quyền quản lý thương hiệu. * Hệ thống đã có dữ liệu về các thương hiệu hoặc sẵn sàng cho việc tạo mới. |
| **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 tên thương hiệu, mô tả, logo (nếu có). * Hệ thống kiểm tra dữ liệu hợp lệ và lưu vào cơ sở dữ liệu. * **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 xóa. * Hệ thống kiểm tra nếu thương hiệu đang được sử dụng trong sản phẩm thì hiển thị cảnh báo. * Nếu không, hệ thống xóa thương hiệu khỏi cơ sở dữ liệu. * **Tìm kiếm thương hiệu:** Hệ thống hiển thị danh sách sản phẩm phù hợp với từ khóa tìm kiếm  1. Hệ thống cập nhật dữ liệu và hiển thị danh sách mới. 2. **Kết thúc**: Admin thoát khỏi chức năng quản lý thương hiệu. |
| **Luồng sự kiện phụ** | **Xác nhận xóa thương hiệu:**   * Nếu Admin chọn xóa thương hiệu, hệ thống hiển thị cảnh báo. * Nếu thương hiệu đang được gán cho sản phẩm, hệ thống yêu cầu đổi thương hiệu trước khi xóa.   **Kiểm tra trùng thương hiệu:**   * Nếu tên thương hiệu đã tồn tại, hệ thống yêu cầu nhập tên khác.   **Xử lý lỗi nhập dữ liệu:**   * Nếu Admin nhập thiếu thông tin, hệ thống hiển thị thông báo lỗi. |
| **Điều kiện đầu ra** | **Thành công:**   * Thương hiệu được thêm, chỉnh sửa, xóa hoặc hiển thị chính xác. * Danh sách thương hiệu trong hệ thống được cập nhật đúng.   **Thất bại:**   * Lỗi kết nối hoặc hệ thống không thể lưu dữ liệu. * Thương hiệu đang được sử dụng nên không thể xóa. * Nhập dữ liệu không hợp lệ hoặc trùng lặp. |

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

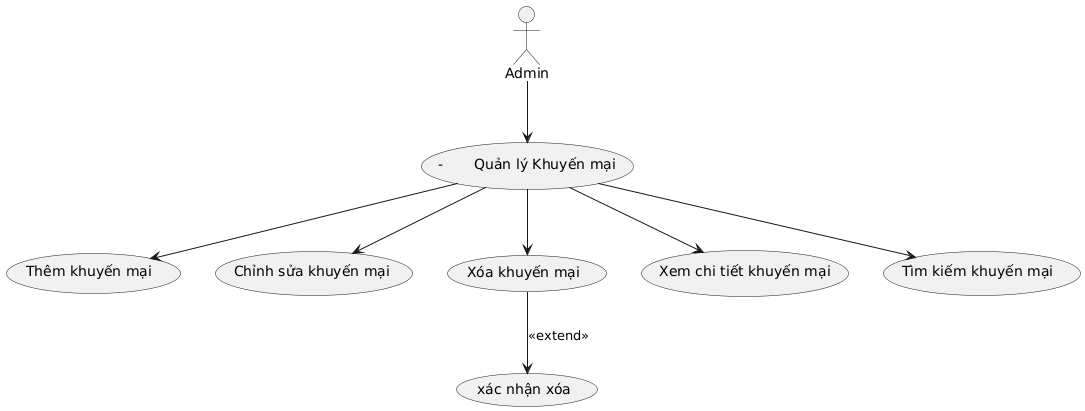
Hình 2.6. Xây dựng biểu đồ usecase phân rã Quản lý Khách hàng

* Đặc tả use case Quản lý Khách hàng:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Khách hàng |
| **Actor** | * Admin |
| **Mô tả** | * Use case này cho phép Admin quản lý khách hàng trên hệ thống, bao gồm việc xem thông tin khách hàng, khóa tài khoản khách hàng (nếu Customer vi phim chích sách), danh sách khách hàng và tìm kiếm khách hàng. |
| **Điều kiện kiên quyết** | * Người dùng phải đăng nhập với vai trò Admin. * Hệ thống có dữ liệu khách hàng hoặc sẵn sàng cho việc thêm mới. |
| **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:** Hệ thống hiển thị thông tin chi tiết của khách hàng. * **Khóa khoản khách hàng:** Admin chọn khách hàng và thực hiện xác nhận khóa tài khoản. * **Tìm kiếm khách hàng:** Hệ thống hiển thị danh sách sản phẩm phù hợp với từ khóa tìm kiếm.  1. Hệ thống cập nhật trạng thái tài khoản khách hàng và thông báo thành công. 2. **Kết thúc**: Use case kết thúc khi Admin thoát khỏi chức năng quản lý khách hàng. |

|  |  |
| --- | --- |
| **Luồng sự kiện phụ** | **Xác nhận vô hiệu hóa tài khoản khách hàng**   * Admin chọn chức năng khóa tài khoản khách hàng. * Hệ thống yêu cầu Admin xác nhận hành động này. * Nếu Admin xác nhận, hệ thống thực hiện khóa tài khoản khách hàng. |
| **Điều kiện đầu ra** | **Thành công:**   * Thông tin khách hàng được cập nhật chính xác (xem, khóa tài khoản). * Danh sách khách hàng hiển thị đầy đủ và đúng trạng thái.   **Thất bại:**   * Lỗi kết nối hệ thống hoặc nhập dữ liệu không hợp lệ. * Hệ thống hiển thị thông báo lỗi. |

#### **Biểu đồ usecase phân rã Quản lý Khuyến mại:**

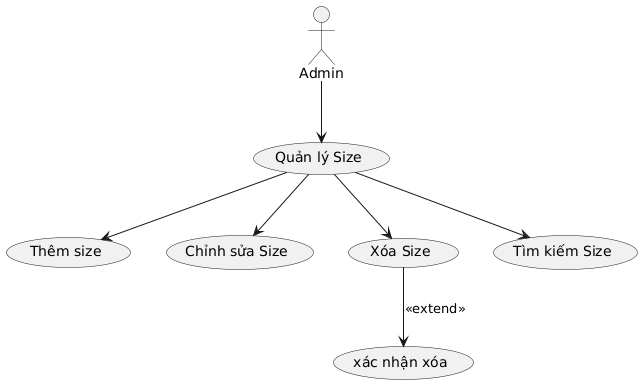


Hình 2.7. Xây dựng biểu đồ usecase phân rã Quản lý Khuyến mại

* Đặc tả use case Quản lý Khuyến mại:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Khuyến mại |
| **Actor** | * Admin |
| **Mô tả** | * Use case này cho phép Admin quản lý khuyến mãi trong hệ thống, bao gồm việc thêm mới, chỉnh sửa, xóa, xem danh sách khuyến mại, tìm kiếm khuyến mại, xem chi tiết khuyến mại. |
| **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 khuyến mại".** 2. Hệ thống hiển thị danh sách các chương trình khuyến mại hiện có. 3. Admin thực hiện một trong các thao tác sau:  * **Thêm khuyến mại mới:** * Nhập thông tin chương trình khuyến mại (tên, mã giảm giá, % giảm giá, ngày bắt đầu, ngày kết thúc, điều kiện áp dụng). * Hệ thống kiểm tra dữ liệu hợp lệ và lưu vào cơ sở dữ liệu. * **Chỉnh sửa khuyến mại:** * Chọn chương trình khuyến mại cần chỉnh sửa. * Thay đổi thông tin và lưu lại. * **Xóa khuyến mại:** * Chọn chương trình khuyến mại cần xóa. * Hệ thống yêu cầu xác nhận xóa. * Nếu Admin xác nhận, hệ thống xóa chương trình khỏi cơ sở dữ liệu. * **Xem chi tiết khuyến mại:** Chọn một chương trình khuyến mại để xem thông tin chi tiết. * **Tìm kiếm khuyến mại:** Hệ thống hiển thị danh sách sản phẩm phù hợp với từ khóa tìm kiếm.  1. Hệ thống cập nhật danh sách khuyến mại theo các thay đổi của Admin. 2. **Kết thúc**: Admin thoát khỏi chức năng quản lý khuyến mại. |
| **Luồng sự kiện phụ** | **Xác nhận xóa khuyến mại:**   * Nếu Admin chọn xóa khuyến mại, hệ thống hiển thị cảnh báo và yêu cầu xác nhận. * Nếu Admin đồng ý, hệ thống tiến hành xóa.   **Xử lý lỗi nhập dữ liệu:**   * Nếu thông tin nhập không hợp lệ (ví dụ: ngày kết thúc trước ngày bắt đầu), hệ thống hiển thị thông báo lỗi.   **Kiểm tra mã khuyến mại trùng:**   * Nếu Admin nhập mã giảm giá đã tồn tại, hệ thống yêu cầu nhập mã khác. |
| **Điều kiện đầu ra** | **Thành công:**   * Chương trình khuyến mại được thêm, chỉnh sửa hoặc xóa thành công. * Danh sách khuyến mại hiển thị chính xác và đầy đủ.   **Thất bại:**   * Lỗi kết nối hoặc hệ thống không thể lưu dữ liệu. * Thông tin khuyến mại không hợp lệ. * Không thể xóa khuyến mại do đang được áp dụng cho đơn hàng. |

#### **Biểu đồ usecase phân rã Quản lý Size:**

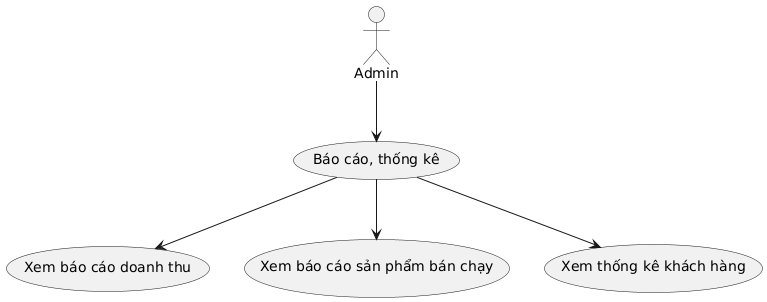


Hình 2.8. Xây dựng biểu đồ usecase phân rã Quản lý Size

* Đặc tả use case Quản lý Size:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Size |
| **Actor** | * Admin |
| **Mô tả** | * Use case này cho phép Admin quản lý size trong hệ thống, bao gồm việc thêm mới, chỉnh sửa, xóa, xem danh sách size và tìm kiếm size. |
| **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 Size".** 2. Hệ thống hiển thị danh sách các chương trình size hiện có. 3. Admin thực hiện một trong các thao tác sau:  * **Thêm size:** * Nhập thông tin size. * Hệ thống kiểm tra dữ liệu hợp lệ và lưu vào cơ sở dữ liệu. * **Chỉnh sửa size:** * Chọn size cần chỉnh sửa. * Thay đổi thông tin và lưu lại. * **Xóa size:** * Chọn size cần xóa. * Hệ thống yêu cầu xác nhận xóa. * Nếu Admin xác nhận, hệ thống xóa chương trình khỏi cơ sở dữ liệu. * **Tìm kiếm sản size:** Hệ thống hiển thị danh sách size phù hợp với từ khóa tìm kiếm.  1. Hệ thống cập nhật danh sách size theo các thay đổi của Admin. 2. **Kết thúc**: Admin thoát khỏi chức năng quản lý size. |
| **Luồng sự kiện phụ** | **Xác nhận xóa size:**   * Nếu Admin chọn xóa size, hệ thống hiển thị cảnh báo và yêu cầu xác nhận. * Nếu Admin đồng ý, hệ thống tiến hành xóa. * Nếu size đang được sử dụng trong sản phẩm, hệ thống từ chối xóa và thông báo lỗi.   **Xử lý lỗi nhập dữ liệu:**   * Nếu thông tin nhập không hợp lệ (ví dụ: size để trống), hệ thống hiển thị thông báo lỗi. * Nếu Admin nhập size trùng, hệ thống yêu cầu nhập size khác. |
| **Điều kiện đầu ra** | **Thành công:**   * Size được thêm, chỉnh sửa hoặc xóa thành công. * Danh sách size hiển thị chính xác và đầy đủ.   **Thất bại:**   * Lỗi kết nối hoặc hệ thống không thể lưu dữ liệu. * Thông tin size không hợp lệ. * Không thể xóa size do đang được sử dụng trong sản phẩm. |

#### **Biểu đồ usecase phân rã Báo cáo, thống kê:**

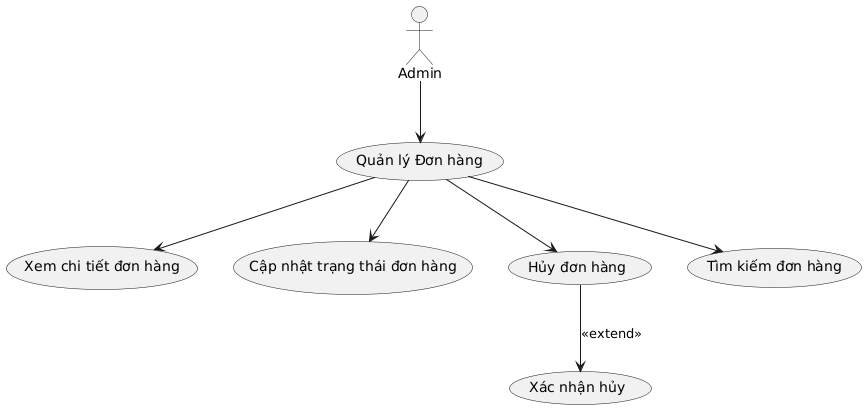


Hình 2.9. Xây dựng biểu đồ usecase phân rã Báo cáo, thống kê

* Đặc tả use case Báo cáo, thống kê:

|  |  |
| --- | --- |
| **Usecase** | * Báo cáo, thống kê |
| **Actor** | * Admin |
| **Mô tả** | * Use Case này cho phép Admin xem các báo cáo và thống kê liên quan đến hoạt động của hệ thống, bao gồm doanh thu, số lượng đơn hàng, số lượng khách hàng, sản phẩm bán chạy, v.v. |
| **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 **"Báo cáo, thống kê".** 2. Hệ thống hiển thị danh sách các chương trình size hiện có. 3. Admin thực hiện một trong các thao tác sau:  * **Thêm khuyến mại mới:** * Nhập thông tin chương trình khuyến mại (tên, mã giảm giá, % giảm giá, ngày bắt đầu, ngày kết thúc, điều kiện áp dụng). * Hệ thống kiểm tra dữ liệu hợp lệ và lưu vào cơ sở dữ liệu. * **Chỉnh sửa khuyến mại:** * Chọn chương trình khuyến mại cần chỉnh sửa. * Thay đổi thông tin và lưu lại. * **Xóa khuyến mại:** * Chọn chương trình khuyến mại cần xóa. * Hệ thống yêu cầu xác nhận xóa. * Nếu Admin xác nhận, hệ thống xóa chương trình khỏi cơ sở dữ liệu. * **Xem chi tiết khuyến mại:** Chọn một chương trình khuyến mại để xem thông tin chi tiết. * **Tìm kiếm sản size:** Hệ thống hiển thị danh sách sản phẩm phù hợp với từ khóa tìm kiếm.  1. Hệ thống cập nhật danh sách khuyến mại theo các thay đổi của Admin. 2. **Kết thúc**: Admin thoát khỏi chức năng quản lý size. |
| **Luồng sự kiện phụ** | **Lọc dữ liệu báo cáo:**   * Admin có thể lọc theo tiêu chí: * Khoảng thời gian (ngày, tháng, năm). * Loại sản phẩm * Trạng thái đơn hàng * Khách hàng   **Xuất báo cáo:**   * Admin có thể tải báo cáo dưới dạng **Excel**.   **Xử lý lỗi:**   * Nếu không có dữ liệu phù hợp, hệ thống thông báo **"Không tìm thấy dữ liệu"**. * Nếu có lỗi khi tải báo cáo, hệ thống hiển thị thông báo lỗi. |
| **Điều kiện đầu ra** | **Thành công:**   * Hệ thống hiển thị báo cáo chính xác theo yêu cầu. * Báo cáo được xuất file thành công.   **Thất bại:**   * Hệ thống không thể truy xuất dữ liệu. * Không có dữ liệu phù hợp với điều kiện lọc. * Xuất file thất bại do lỗi hệ thống. |

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



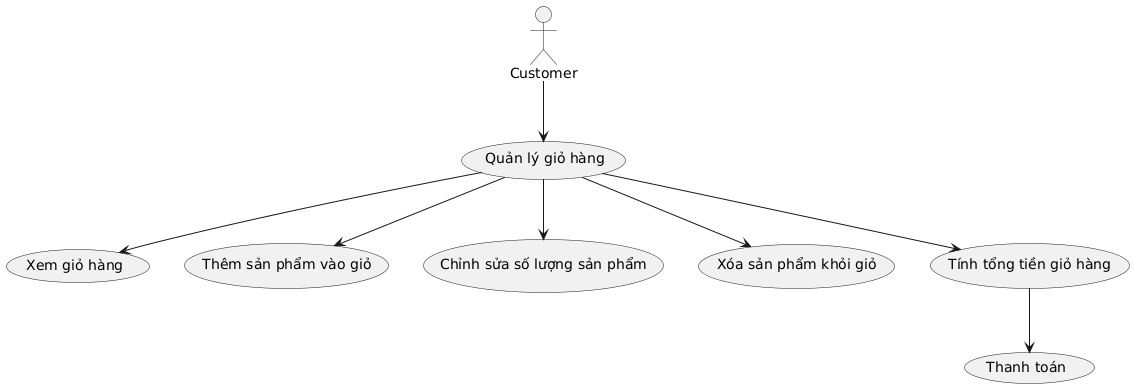
Hình 2.10. Xây dựng biểu đồ usecase phân rã Quản lý Đơn hàng

* Đặc tả use case Quản lý Đơn hàng:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Đơn hàng |
| **Actor** | * Admin |
| **Mô tả** | * Cho phép khách hàng theo dõi, hủy đơn hàng. * Cho phép Admin quản lý trạng thái đơn hàng (xác nhận, xử lý, vận chuyển, hoàn tất hoặc hủy đơn). |

|  |  |
| --- | --- |
| **Điều kiện kiên quyết** | * **Customer** phải đăng nhập vào hệ thống để xem và quản lý đơn hàng của mình. * **Admin** phải có quyền truy cập hệ thống để quản lý đơn hàng. |
| **Luồng sự kiện chính** | **Đối với Customer:**   1. **Bắt đầu**: Customer chọn chức năng "Quản lý Đơn hàng". 2. Hệ thống hiển thị danh sách đơn hàng của khách hàng. 3. Customer thực hiện một trong các hành động sau:  * **Xem chi tiết đơn hàng:** Hệ thống hiển thị thông tin về sản phẩm, tổng tiền, trạng thái đơn hàng. * **Hủy đơn hàng:** * Nếu đơn hàng chưa được xác nhận, khách hàng có thể gửi yêu cầu hủy. * Hệ thống cập nhật trạng thái đơn hàng nếu hợp lệ.  1. Hệ thống cập nhật và hiển thị thông tin mới nhất của đơn hàng. 2. **Kết thúc**: Customer thoát khỏi chức năng quản lý đơn hàng.   **Đối với Admin:**   1. **Bắt đầu:** Admin chọn chức năng “Quản lý Đơn hàng”. 2. Hệ thống hiển thị danh sách tất cả đơn hàng. 3. Admin thực hiện các thao tác:  * **Xác nhận đơn hàng**: Kiểm tra thông tin đơn và xác nhận đơn hợp lệ. * **Cập nhật trạng thái đơn hàng** (đang xử lý, đã vận chuyển, hoàn thành). * **Hủy đơn hàng**: Nếu cần hủy đơn, hệ thống sẽ thông báo lý do và cập nhật trạng thái.  1. Nếu cần hủy đơn, hệ thống sẽ thông báo lý do và cập nhật trạng thái. 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 trong quá trình xử lý hoặc vận chuyển, hệ thống từ chối yêu cầu hủy. * Nếu đơn hàng hợp lệ để hủy, hệ thống cập nhật trạng thái “Đã hủy”.   **Xử lý lỗi dữ liệu**:   * Nếu đơn hàng không hợp lệ, hệ thống hiển thị thông báo lỗi. * Nếu đơn hàng đã bị hủy hoặc hoàn tất, Admin không thể chỉnh sửa trạng thái. |
| **Điều kiện đầu ra** | **Thành công:**   * Customer xem, theo dõi hoặc hủy đơn hàng thành công. * Admin cập nhật trạng thái đơn hàng chính xác. * Hệ thống phản hồi kịp thời thông tin đơn hàng.   **Thất bại:**   * Lỗi hệ thống hoặc mất kết nối không thể hiển thị danh sách đơn hàng. * Khách hàng cố gắng hủy đơn đã được xử lý hoặc vận chuyển. * Admin cập nhật trạng thái đơn hàng không hợp lệ. |

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



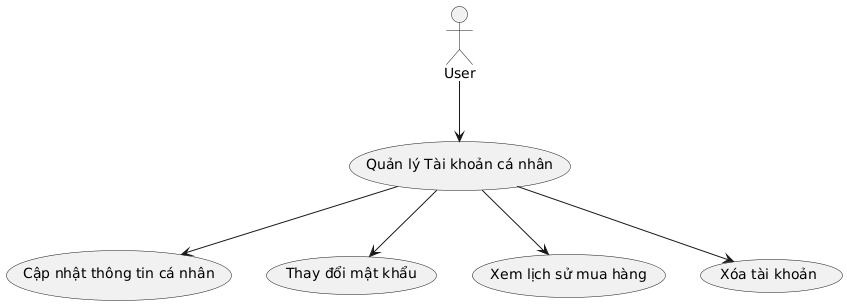
Hình 2.11. Xây dựng biểu đồ usecase phân rã Quản lý Giỏ hàng

* Đặc tả use case Quản lý Giỏ hàng:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Giỏ hàng |
| **Actor** | * Customer |
| **Mô tả** | * Cho phép khách hàng thêm, sửa, xóa sản phẩm trong giỏ hàng. * Hiển thị tổng số tiền tạm tính trước khi thanh toán. |

|  |  |
| --- | --- |
| **Điều kiện kiên quyết** | * Khách hàng đã đăng nhập vào hệ thống. * Hệ thống đã có sản phẩm sẵn trong kho. |
| **Luồng sự kiện chính** | 1. **Bắt đầu**: Customer chọn chức năng "Giỏ hàng". 2. Hệ thống hiển thị danh sách sản phẩm đã được thêm vào giỏ hàng**.** 3. Customer có thể thực hiện một trong các thao tác sau**:**  * **Thêm sản phẩm vào giỏ hàng**: * Customer chọn một sản phẩm và nhấn "Thêm vào giỏ". * Hệ thống kiểm tra số lượng tồn kho. * Nếu còn hàng, hệ thống thêm sản phẩm vào giỏ và cập nhật số lượng. * **Xóa sản phẩm khỏi giỏ hàng**: * Customer chọn sản phẩm trong giỏ hàng và nhấn "Xóa". * Hệ thống cập nhật lại danh sách giỏ hàng. * **Chỉnh sửa số lượng sản phẩm:** * Khách hàng thay đổi số lượng sản phẩm trong giỏ hàng. * Hệ thống kiểm tra số lượng tồn kho và cập nhật lại.      1. **Customer** có thể chọn "Thanh toán" để tiếp tục đặt hàng. 2. Hệ thống cập nhật trạng thái giỏ hàng và chờ xác nhận thanh toán. 3. **Kết thúc:** Customer thoát khỏi chức năng giỏ hàng. |
| **Luồng sự kiện phụ** | **Kiểm tra số lượng tồn kho khi thêm/cập nhật sản phẩm**   * Nếu số lượng yêu cầu lớn hơn số lượng tồn kho, hệ thống hiển thị thông báo lỗi.   **Tự động lưu giỏ hàng cho khách hàng**   * Nếu khách hàng đăng xuất, giỏ hàng vẫn được lưu lại. |
| **Điều kiện đầu ra** | **Thành công:**   * Giỏ hàng được cập nhật chính xác. * Tổng tiền hiển thị đúng với số lượng sản phẩm. * Khách hàng có thể tiếp tục thanh toán.   **Thất bại:**   * Lỗi kết nối không thể cập nhật giỏ hàng. * Không thể thêm sản phẩm do hết hàng. * Không thể sửa số lượng do vượt quá tồn kho. |

#### **Biểu đồ usecase phân rã Quản lý Tài khoản cá nhân:**



Hình 2.12. Xây dựng biểu đồ usecase phân rã Quản lý Tài khoản cá nhân

* Đặc tả use case Quản lý Tài khoản cá nhân:

|  |  |
| --- | --- |
| **Usecase** | * Quản lý Tài khoản cá nhân |
| **Actor** | * Customer |
| **Mô tả** | * Use Case này cho phép Customer thực hiện các thao tác quản lý tài khoản cá nhân, bao gồm cập nhật thông tin cá nhân, đổi mật khẩu và xóa tài khoản. |
| **Điều kiện kiên quyết** | * Người dùng đã đăng nhập vào hệ thống. |
| **Luồng sự kiện chính** | 1. **Bắt đầu**: Người dùng chọn chức năng **"Tài khoản của tôi"** 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. * **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. * **Xóa tài khoản:** * Người dùng chọn "Xóa tài khoản". * Hệ thống yêu cầu xác nhận lại hành động này. * Nếu người dùng xác nhận, hệ thống xóa tài khoản khỏi cơ sở dữ liệu.  1. Hệ thống cập nhật thông tin tài khoản theo thay đổi của người dùng. 2. **Kết thúc:** Customer Người dùng thoát khỏi chức năng quản lý tài khoản. |
| **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:**   * Thông tin tài khoản được cập nhật chính xác. * Mật khẩu được đổi thành công. * Tài khoản bị xóa hoàn toàn khỏi hệ thống nếu người dùng xác nhận.   **Thất bại:**   * Lỗi kết nối hoặc hệ thống không thể cập nhật thông tin. * Mật khẩu hiện tại không đúng khi đổi mật khẩu. * Không thể xóa tài khoản do ràng buộc dữ liệu (ví dụ: còn đơn hàng chưa hoàn tất). |

### **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, Customer
* Hệ thống

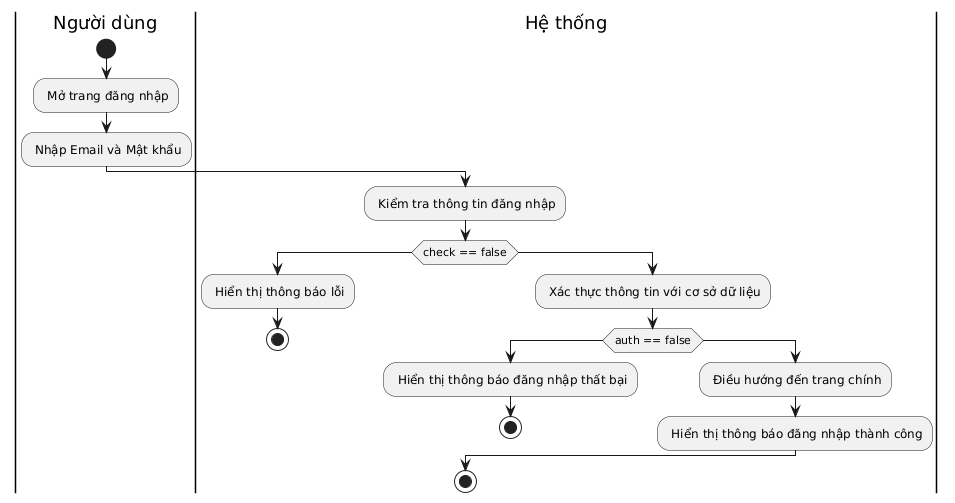
1. **Các bước chi tiết**
2. Người dùng mở trang đăng nhập: Hệ thống hiển thị Form đăng nhập với các trường nhập dữ liệu cho email và mật khẩu
3. Người dùng nhập email và mật khẩu: Người dùng điền thông tin vào các trường tài khoản và mật khẩu.
4. Người dùng nhấn nút "Đăng nhập**":** Hệ thống nhận thông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

* Customer
* Hệ thống

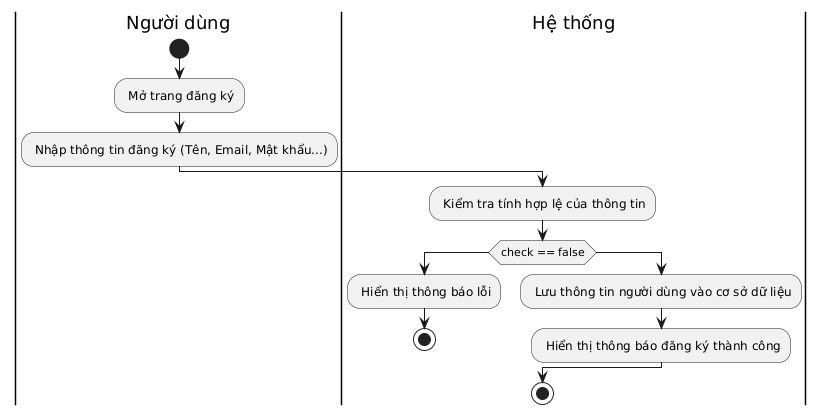
1. **Các bước chi tiết:**
2. Người dùng mở trang đăng ký: Hệ thống hiển thị form đăng ký.
3. Người dùng nhập điền vào form đăng ký: Người dùng điền thông tin vào các trường: Tên, Họ, số điện thoại, email, mật khẩu, xác nhận mật khẩu.
4. Người dùng nhấn nút "Đăng ký": Hệ thống nhận thông tin đăng ký từ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

* Customer
* 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.

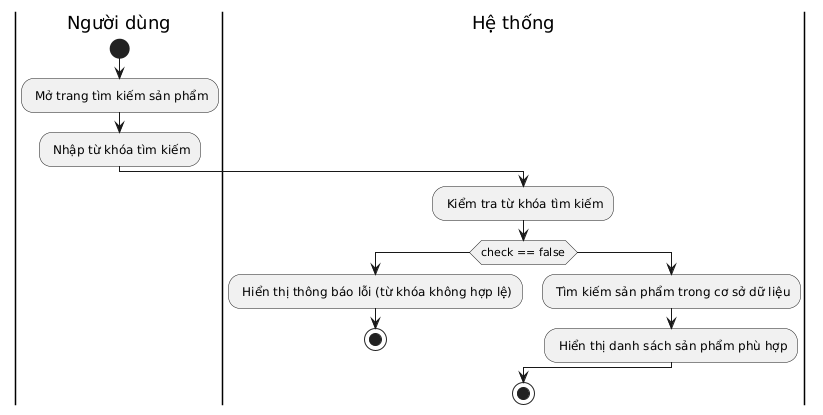
* Nếu từ khóa trống → Hiển thị thông báo yêu cầu nhập từ khóa.
* Nếu hợp lệ → Chuyển sang bước tiếp theo.
* Nếu không hợp lệ → Hiển thị thông báo "Không tìm thấy sản phẩm phù hợp".

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, ...)

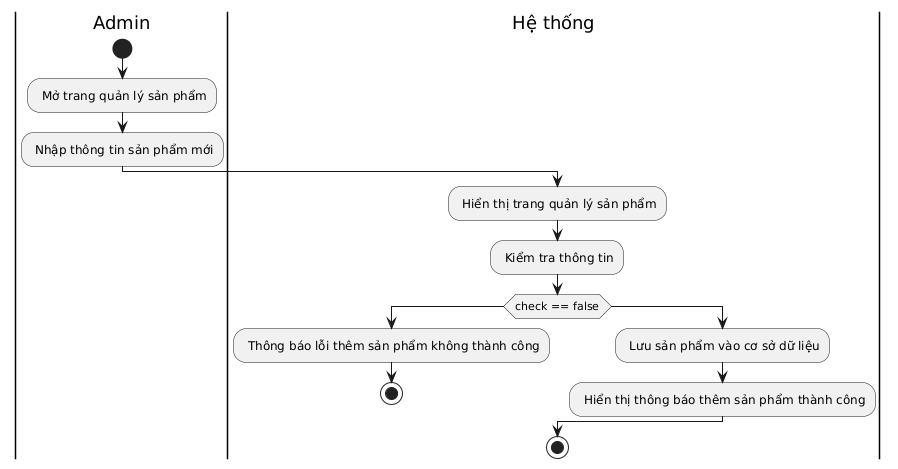
1. Xử lý kết quả kiểm tra:

* 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**

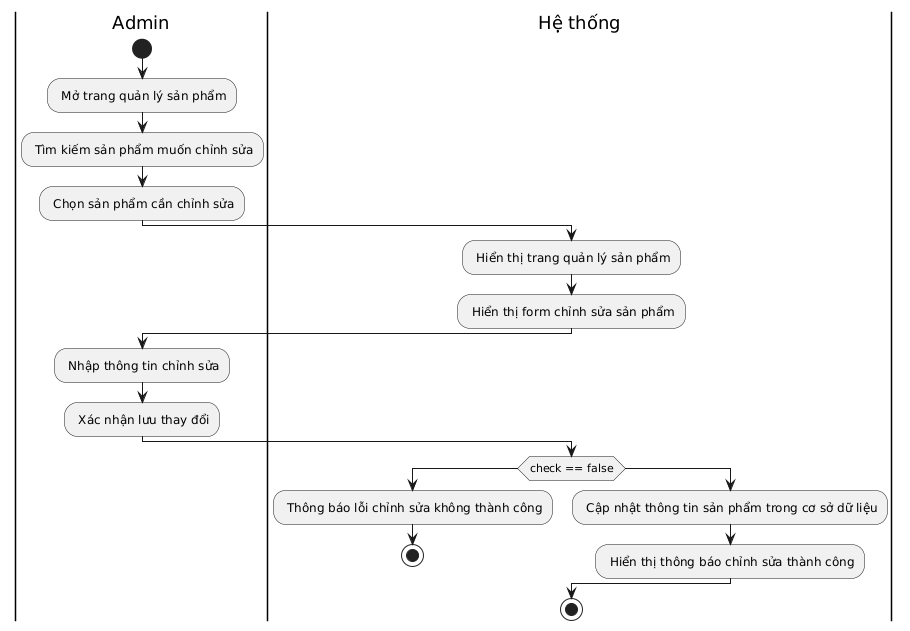
* Nếu thông tin hợp lệ → Cập nhật cơ sở dữ liệu.
* Nếu thông tin không hợp lệ → Hiển thị thông báo lỗi và yêu cầu chỉnh sửa (quay lại bước 5)

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:**

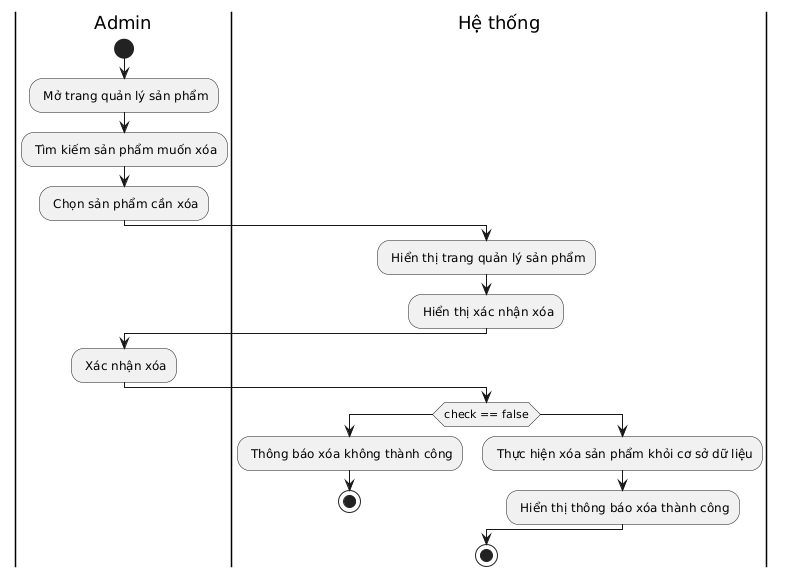
1. Người dùng mở trang quản lý sản phẩm.
2. Hệ thống hiển thị danh sách sản phẩm hiện đã có.
3. Người dùng tìm kiếm sản phẩm cần xóa.
4. Hệ thống hiển thị hộp thoại xác nhận xóa, yêu cầu người dùng xác nhận hành động:

* 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:

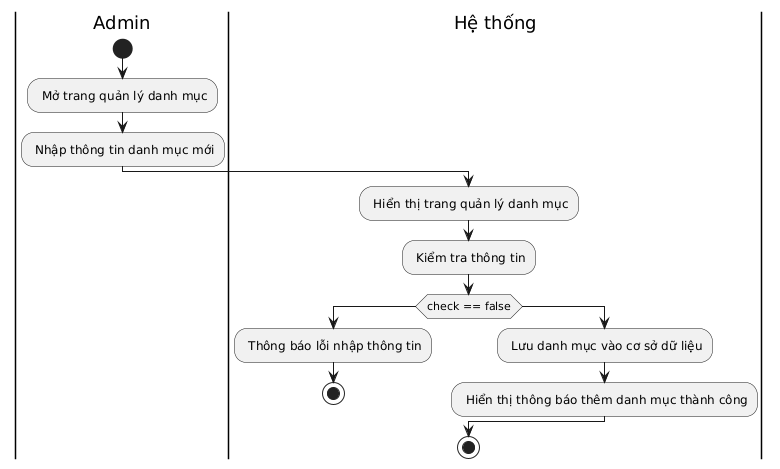
* **Nếu hợp lệ:** Tiếp tục lưu vào cơ sở dữ liệu
* **Nếu có thất bại:** Hiển thị thông báo lỗi, yêu cầu người dùng chỉnh sửa thông tin (quay về bước 5)

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

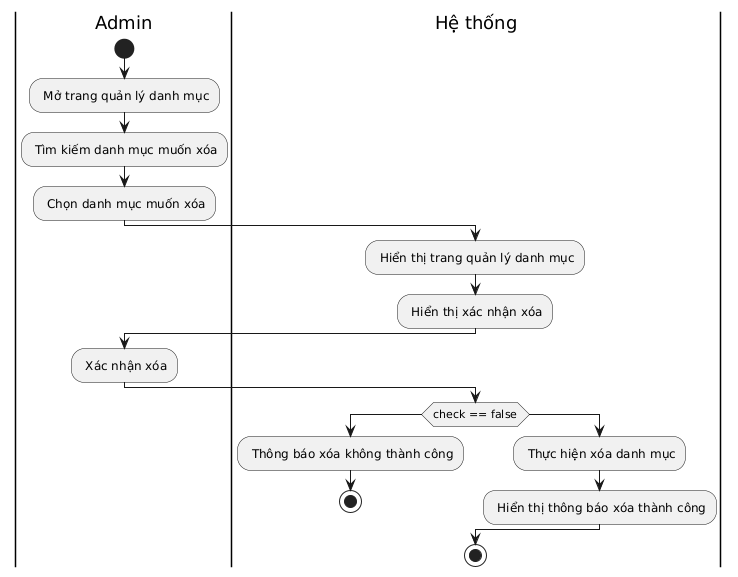
* Nếu danh mục **không chứa sản phẩm nào** → Tiếp tục xóa.
* Nếu danh mục **đang chứa sản phẩm** → Hiển thị thông báo "Không thể xóa danh mục đang chứa sản phẩm" và dừng thao tác.

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:**

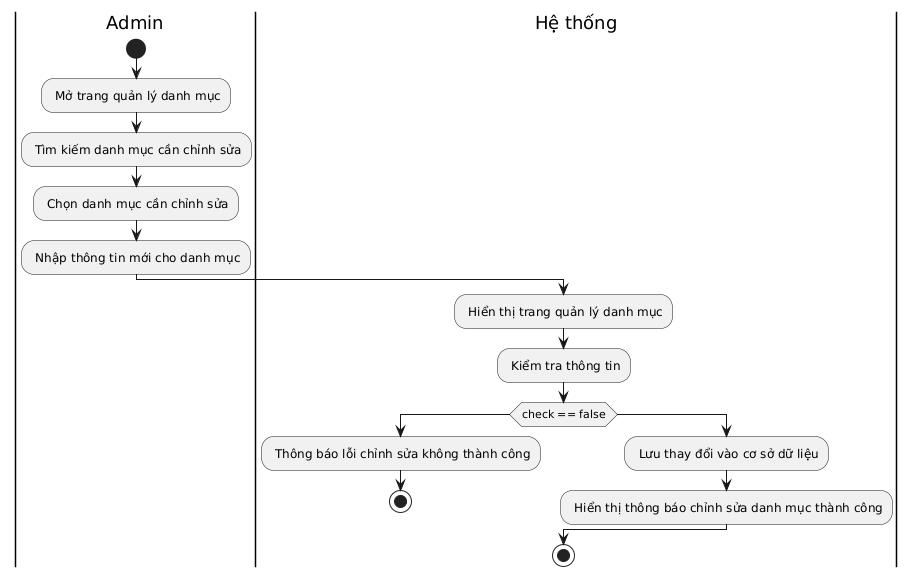
* Nếu thông tin hợp lệ: Hệ thống sẽ thực hiện cập nhật cơ sở dữ liệu.
* Nếu thất bại: Hệ thống sẽ thông báo lỗi và yêu cầu người dùng chỉnh sửa thông tin (quay lại bước 5).

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:

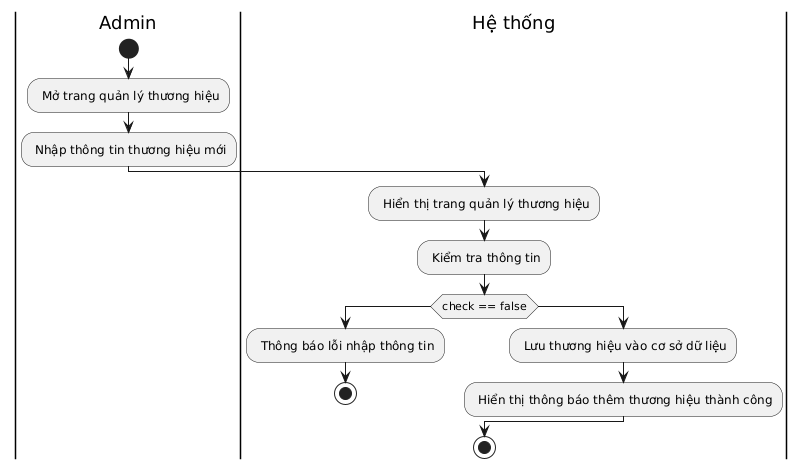
* Nếu thông tin hợp lệ: Hệ thống sẽ thực hiện bước tiếp theo
* Nếu có thất bại: Hệ thống sẽ thông báo lỗi và yêu cầu người dùng chỉnh sửa thông tin (quay về bước 5)

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:

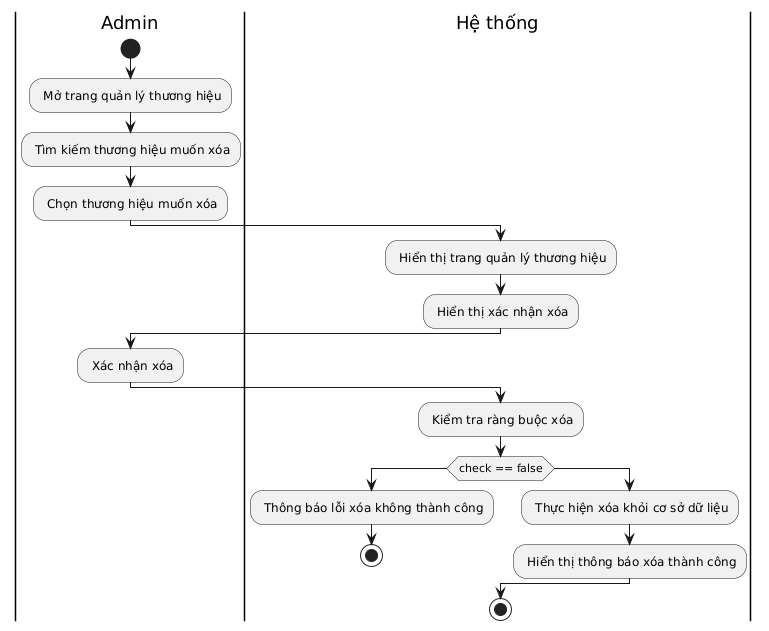
* Hệ thống yêu cầu người dùng xác nhận lại hành động xóa để sai sót.
* Người dùng cần chọn "Xóa" hoặc "Không" để xác nhận xóa thương hiệu.

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**:

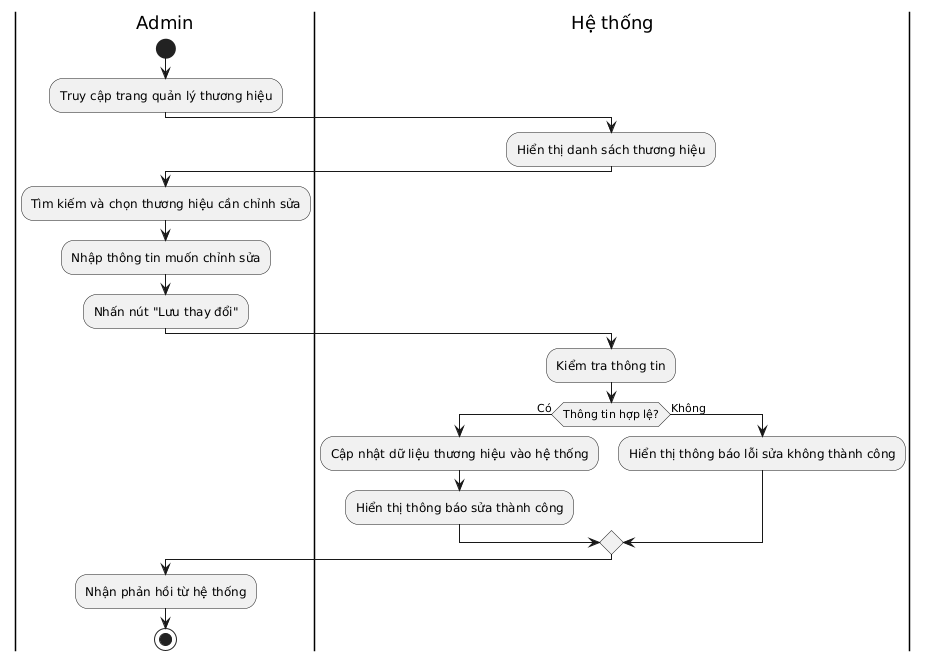
* Nếu thông tin hợp lệ: Hệ thống sẽ thực hiện cập nhật cơ sở dữ liệu.
* Nếu thất bại: Hệ thống sẽ thông báo lỗi và yêu cầu người dùng chỉnh sửa thông tin (quay lại bước 5).

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:**

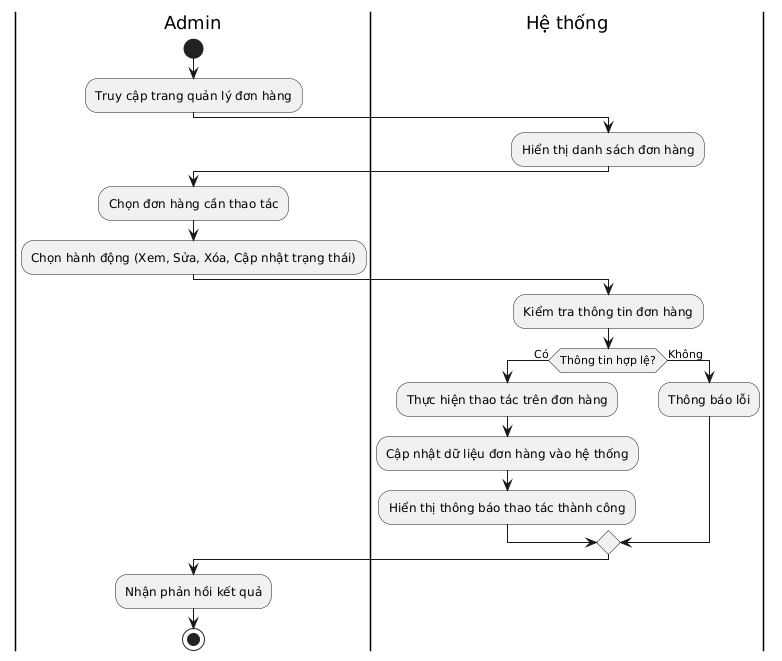
1. Nếu người dùng muốn cập nhật trạng thái đơn hàng, họ chọn trạng thái mới (đang xử lý, đã giao, đã hủy, v.v.).
2. Hệ thống kiểm **tra** dữ liệu hợp lệ:

* 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.

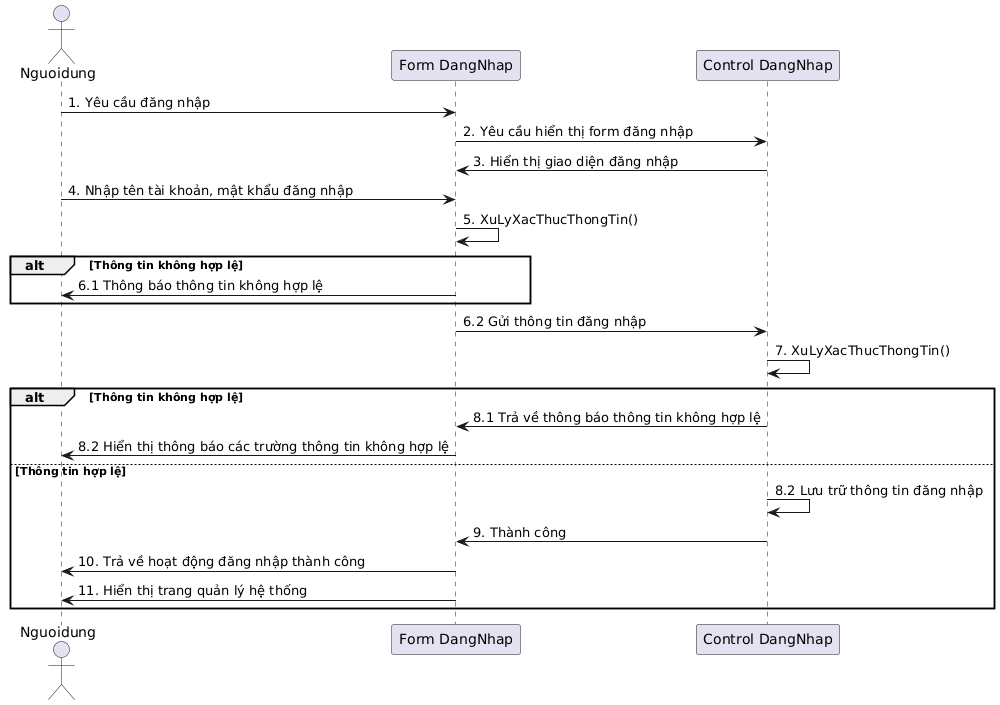
1. Hệ thống cập nhật giao diện danh sách đơn hàng sau khi thực hiện thao tác.
2. Người dùng có thể tiếp tục quản lý đơn hàng khác hoặc thoát khỏi trang.



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

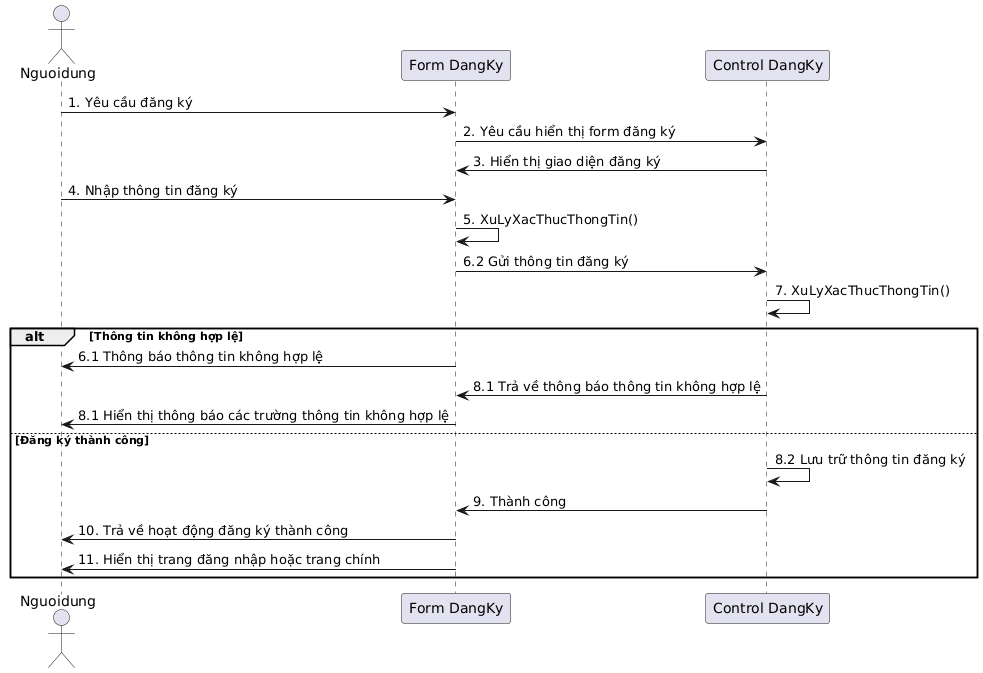
### **Xây dựng biểu đồ tuần**

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



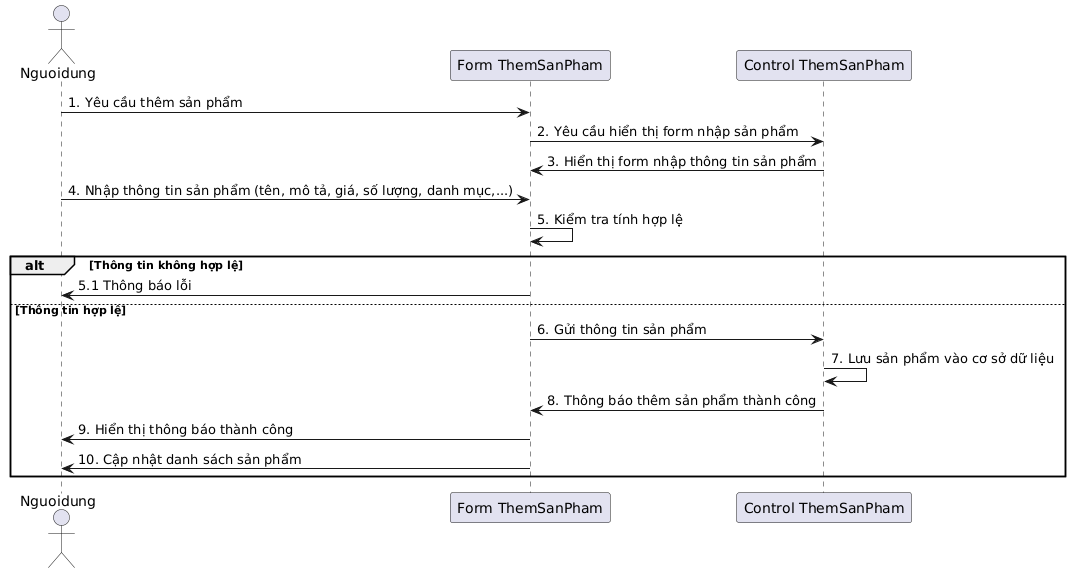
Hình 2.26. Biểu đồ tuần tự chức năng Đăng nhập

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



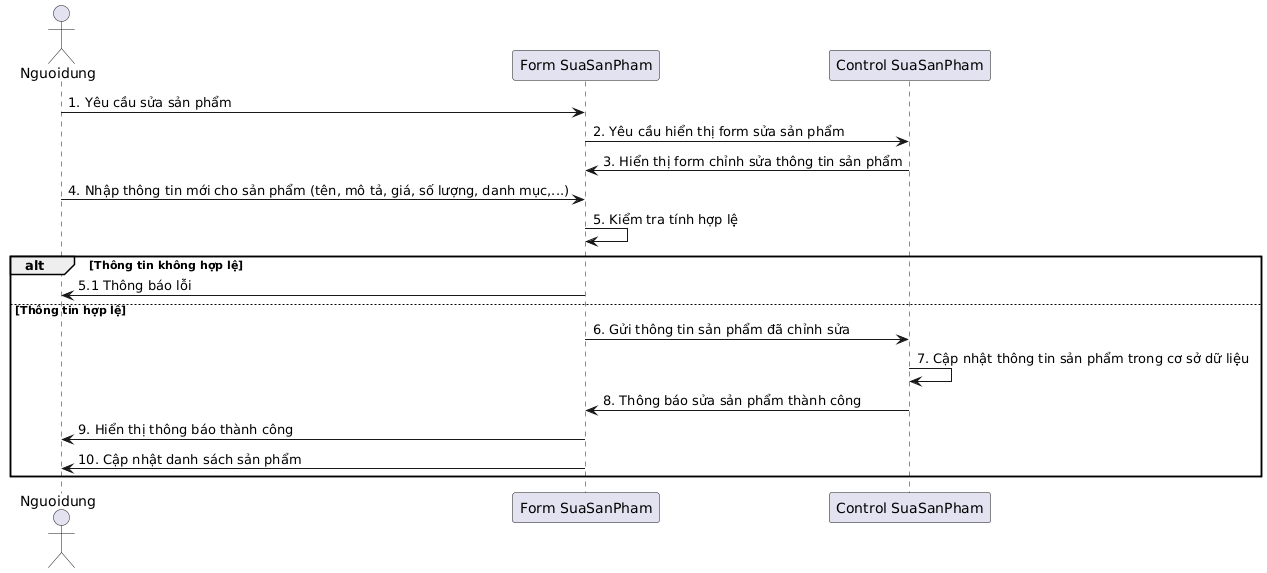
Hình 2.27. Biểu đồ tuần tự chức năng Đăng ký

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



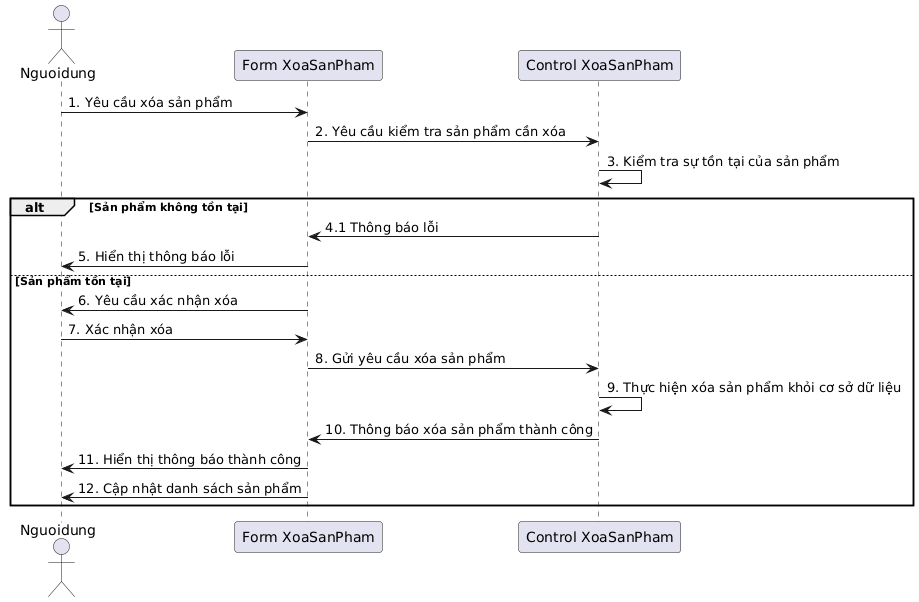
Hình 2.28. Biểu đồ tuần tự chức năng Thêm sản phẩm

#### **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**



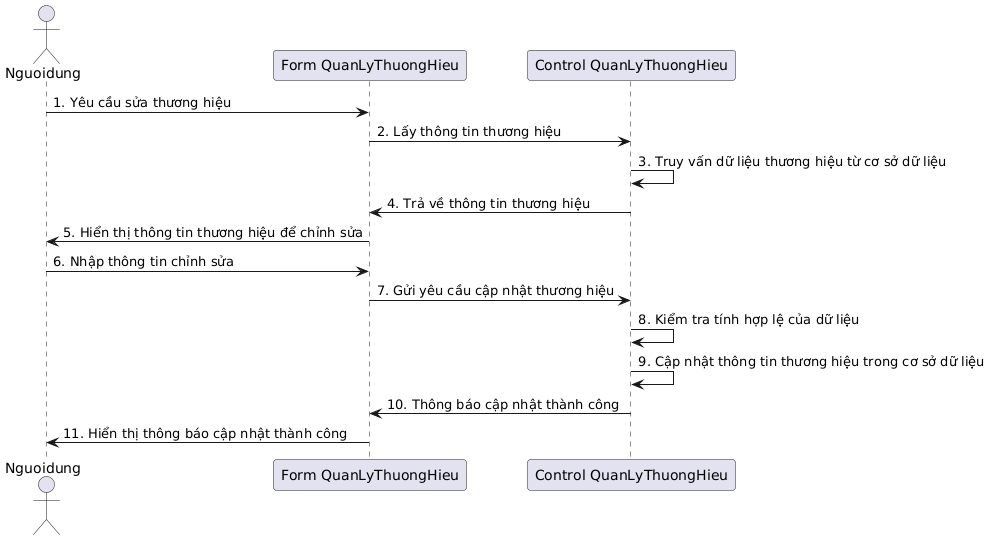
Hình 2.31. Biểu đồ tuần tự chức năng Quản lý Đơn hàng

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



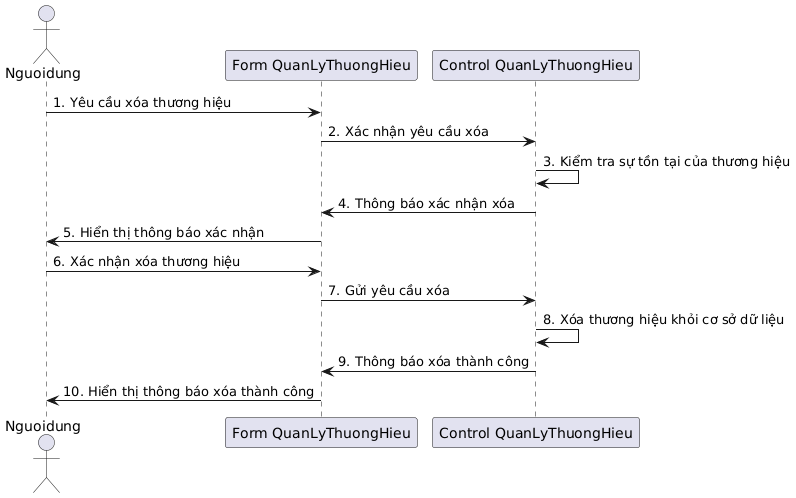
Hình 2.32. Biểu đồ tuần tự chức năng Thêm thương hiệu

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



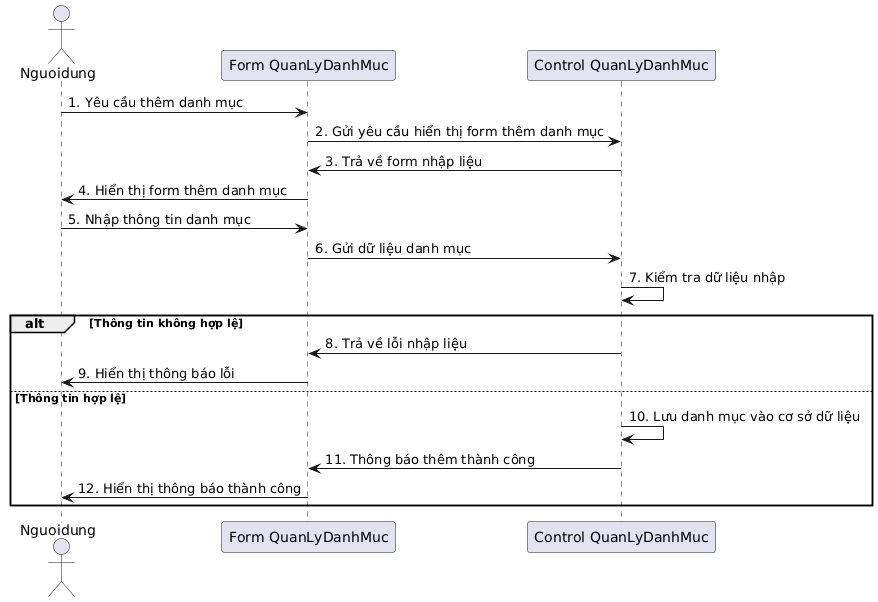
Hình 2.33. Biểu đồ tuần tự chức năng Sửa thương hiệu

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



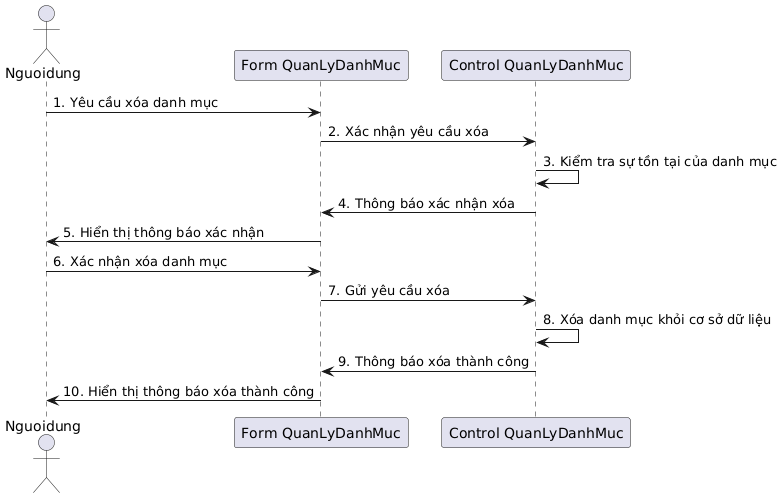
Hình 2.34. Biểu đồ tuần tự chức năng Xóa thương hiệu

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



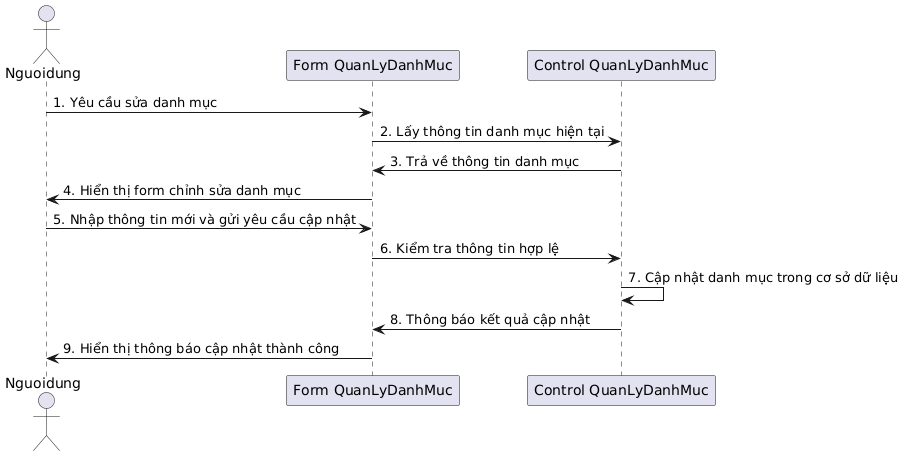
Hình 2.35. Biểu đồ tuần tự chức năng Thêm danh mục

#### **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

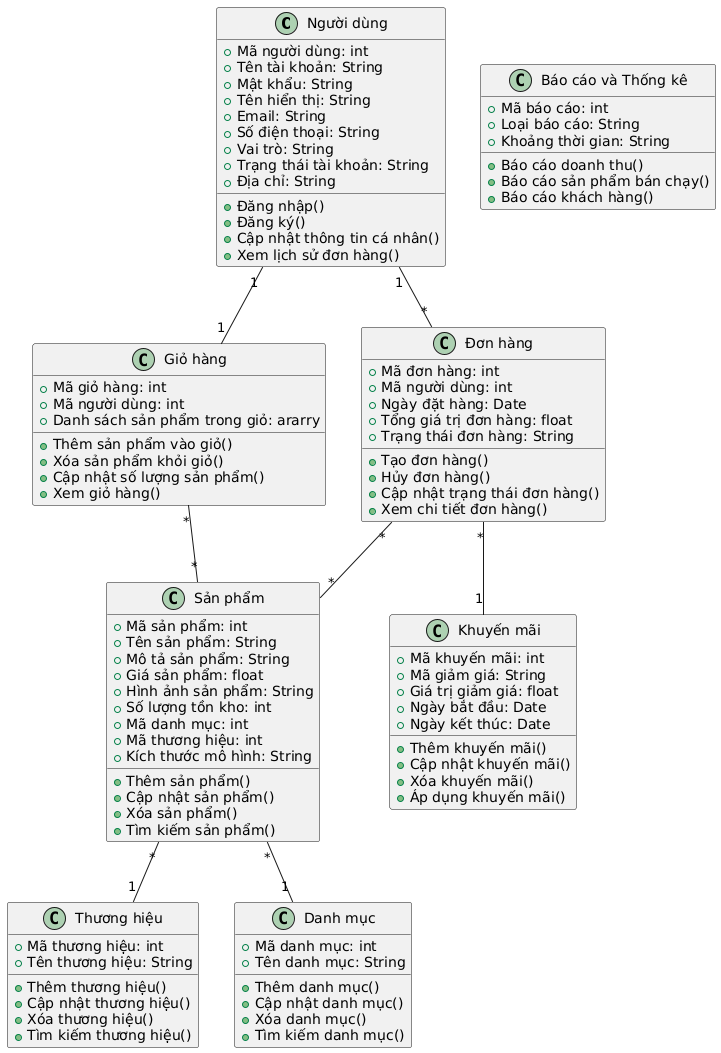
### **Xây dựng biểu đồ lớp tổng quát**

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().
* **Khuyến mãi**
* Thuộc tính: Mã khuyến mãi, Mã giảm giá, Giá trị giảm giá, Ngày bắt đầu, Ngày kết thúc.
* Phương thức: Thêm khuyến mãi(), Cập nhật khuyến mãi(), Xóa khuyến mãi(), Áp dụng khuyến mãi().
* **Báo cáo và Thống kê**
* Thuộc tính: Mã báo cáo, Loại báo cáo (Doanh thu, Sản phẩm bán chạy, Khách hàng tiềm năng), Khoảng thời gian.
* Phương thức: Báo cáo doanh thu(), Báo cáo sản phẩm bán chạy(), Báo cáo khách hang().
* **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 hàng
* Đơn hàng
* Chi tiết đơn hàng
* Khuyến mãi
* **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)**

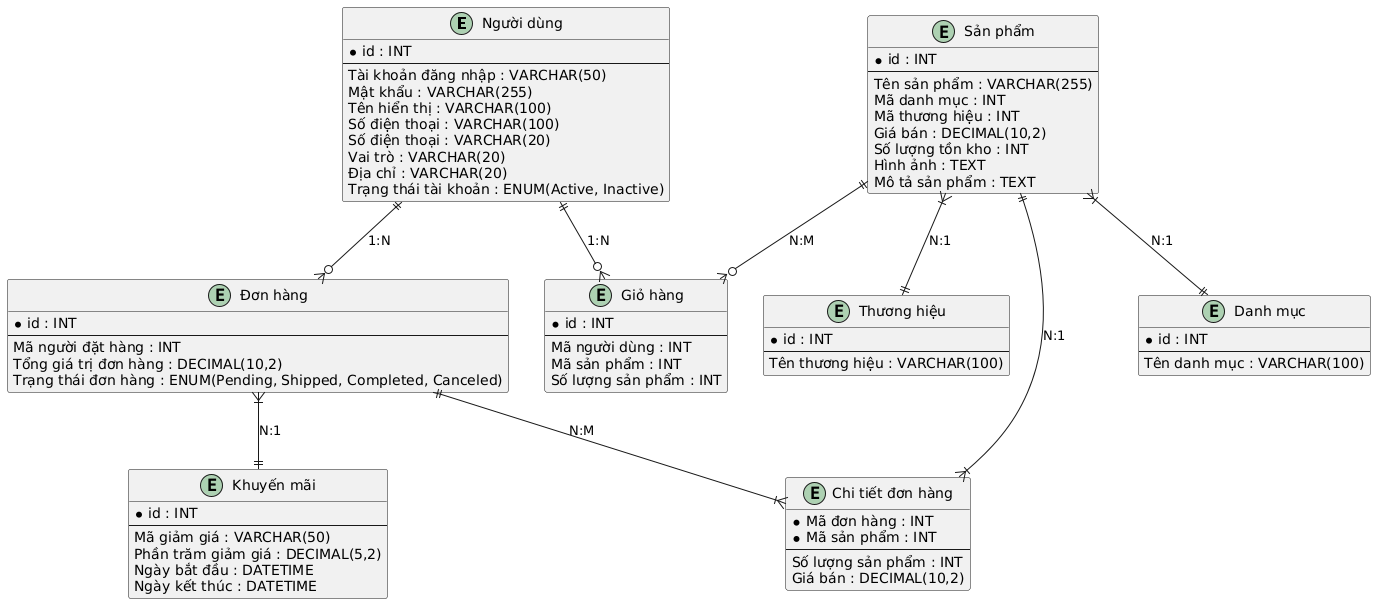
|  |  |  |
| --- | --- | --- |
| **Thuộc tính** | **Kiểu dữ liệu** | **Mô tả** |
| **id** | **INT (PK)** | **Mã đơn hàng** |
| **user\_id** | **INT (FK)** | **Mã người đặt hàng** |
| **total\_price** | **DECIMAL(10,2)** | **Tổng giá trị đơn hàng** |
| **status** | **ENUM(Pending, Shipped, Completed,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

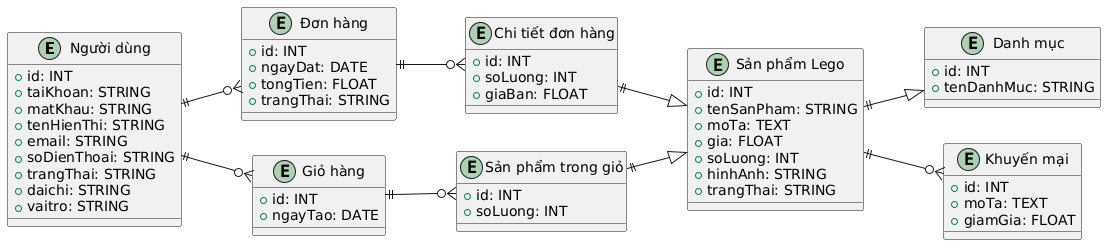
|  |  |  |
| --- | --- | --- |
| **Thuộc tính** | **Kiểu dữ liệu** | **Mô tả** |
| **id** | **INT (PK)** | **Mã khuyến mãi** |
| **code** | **VARCHAR(50)** | **Mã giảm giá** |
| **discount** | **DECIMAL(5,2)** | **Phần trăm giảm giá** |
| **start\_date** | **DATETIME** | **Ngày bắt đầu** |
| **end\_date**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