**BỘ CÔNG THƯƠNG**

**TRƯỜNG ĐẠI HỌC CÔNG NGHIỆP THỰC PHẨM TP.HCM**

**KHOA CÔNG NGHỆ THÔNG TIN**

**![A close up of a sign

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4RDSRXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAExAAIAAAAcAAAIVgEyAAIAAAAUAAAIcodpAAQAAAABAAAIhuocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFkb2JlIFBob3Rvc2hvcCBDUzQgV2luZG93cwAyMDEwOjA2OjEyIDE0OjU2OjAyAAAEoAEAAwAAAAH//wAAoAIABAAAAAEAAAQKoAMABAAAAAEAAAQK6hwABwAACAwAAAi8AAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**BÁO CÁO MÔN HỌC**

**PHÂN TÍCH THIẾT KẾ HỆ THỐNG THÔNG TIN**

**Đề tài: Thiết kế HTTT quản lý siêu thị điện máy chợ lớn**

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1. Mô tả tổng thể

- Tại một chuỗi siêu thị điên máy lớn nổi tiếng có nhiều cơ sở khác nhau tại nhiều khu vực khác nhau thu hút một số lượng khách hàng lớn tới mua sắm phục vụ nhu cầu về các sản phẩm điện máy hiện đại . Thông tin tất cả các sản phẩm , nhân viên, khách hàng, kho hàng, tiền lương, thiết bị phần cứng tại cửa hàng, được quản lý chặt chẽ từ tên quần sản phẩm, thương hiệu , nhà máy, số lượng, công dụng, chức năng, mẫu mã, kiểu dáng chất liệu, màu sắc, bảng giá , tình trạng tồn kho, ....Tấtcả các thông tin này sẽ được nhập vào cơ sở dữ liệu của phần mềm quản lý rồi từ đó có thể tạo các nhóm sản phẩm theo yêu cầu đặt ra. Các nhóm sản phẩm, thiết bị, máy móc đó phải được thống kê cụ thể chi tiết tùy theo yêu cầu của siêu thị.

- Nhân viên bán hàng có thông tin của các loại mặt hàng kinh doanh khi khách hàng có nhu cầu cần mua để từ đó tạo ra danh sách và hóa đơn các sản phẩm sẽ được bán để đáp ứng nhu cầu của khách hàng.

- Khách hàng có 2 cách mua hàng của cửa hàng, thứ nhất là mua online tại website liên kết với phần mềm của cửa hàng thứ hai là tới siêu thị chọn mua trực tiếp , căn cứ vào đó để tiến hành xét nhu cầu mặt hàng mà khách hàng muốn mua. Cửa hàng sẽ kiểm tra kho tại cửa hàng xem số lượng và mặt hàng tồn kho có đáp ứng đủ cho khách hàng hay không? Từ đó sẽ đưa ra những giải pháp để cung cấp đầy đủ cho khách hàng..

- Khách hàng mua hàng sẽ được nhân viên bán hàng lập hóa các sản phẩm cần mua. Sau đó khách hàng sẽ đến quầy thu ngân thanh toán, nhận hóa đơn in danh sách mặt hàng có số lượng và giá tiền của từng loại sản phẩm đồng thời kiểm tra một lần cuối tất cả thông tin về sản phẩm đã bán trước khi giao tới tay khách hàng. Sau khi hoàn tất công việc kiểm tra check thông tin hóa đơn tiến hành giao sản phẩm cho khách hàng.

- Sau khi sử dụng, khách hàng có yêu cầu bảo hàng sản phẩm, khách hàng liên hệ với cửa hàng để xử lý bảo hành sản phẩm.

Sơ đồ tổ chức của hệ thống

1. Yêu cầu của hệ thống
2. Quản lý bán hàng

- Lập hóa đơn

- Xử lý thanh toán

- Lập thống kê

1. Quản lý nhập hàng

- Lập phiếu nhập hàng

- Lập phiếu đặt hàng

1. Quản lý nhà cung cấp

- Lưu trữ thông tin nhà cung cấp

1. Quản lý nhân viên

- Lưu trữ thông tin nhân viên

- Phân lịch làm

1. Quản lý khách hàng

- Lưu trữ thông tin khách hàng

1. Quản lý sản phẩm

- Lưu trữ thông tin sản phẩm

\* Các yêu cầu trên đều có các xử lý mặt định như thêm, xóa, sửa, tìm kiếm, thống kê.

1. Mô hình use case nghiệp vụ
2. Mô tả các nghiệp
3. Mua hàng

Khi khách hàng đến cửa hàng, sẽ được nhân viên bán hàng tư vấn, khách hàng tìm kiếm các sản phẩm của hình, nhân viên sẽ kiểm tra tồn kho của sản phẩm, nếu đám ứng được yêu cầu của khách hàng, nhân viên bán hàng tiến hành lập thẻ thành viên cho khách hàng (nếu khách hàng chưa có). Sau đó nhân viên lập hóa đơn cho khách hàng, nhập thông tin khách hàng. Khách hàng sẽ đến quầy thu ngân để thanh toán, khách hàng có thể thanh toán bằng tiền mặt hoặc bằng thẻ. Sau khi thanh toán, nhân viên thu ngân sẽ in hóa đơn, khách hàng kiểm tra hóa đơn. Khách hàng chờ nhận hàng, kiểm tra hàng và ra về.

1. Cung cấp hàng hóa

Nhà cung cấp cung cấp hàng theo đơn đặt hàng, người quản lý sẽ kiểm tra đơn hàng nếu đúng số lượng đặt hàng sẽ yêu cầu nhân viên kho lập phiếu nhập hàng và nhập hàng vào kho.

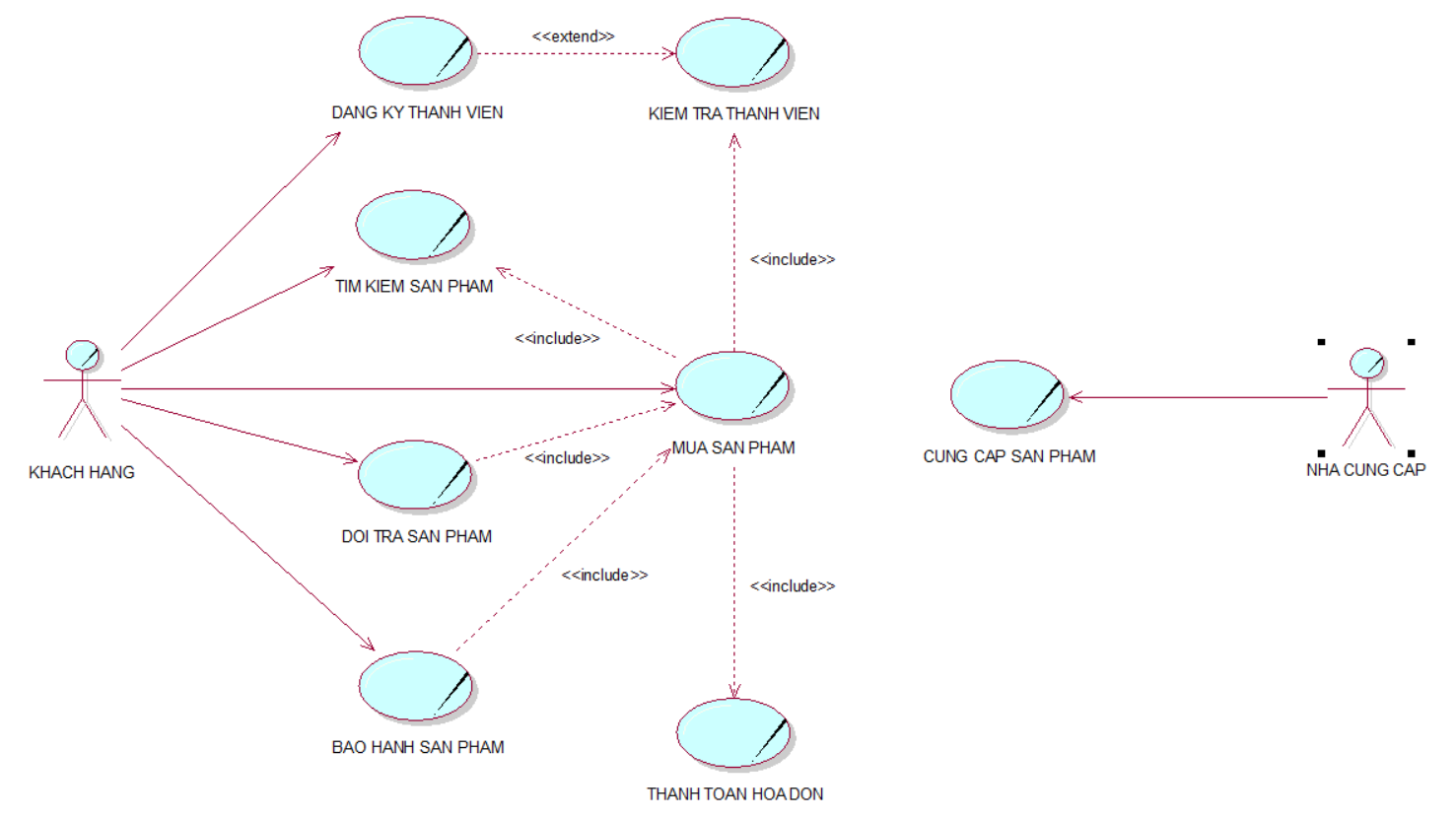
1. Đổi hàng

Khách hàng sau khi mua hàng tại cửa hàng, trong thời gian quy định, sản phẩm bị lỗi do nhà cung cấp, khách hàng đến cửa hàng yêu cầu đổi sản phẩm khác (theo quy định cửa hàng), người quản lý kiểm tra hóa đơn khách hàng, nhân viên kĩ thuật kiểm tra sản phẩm, sau khi thỏa quy định tiến hành đổi sản phẩm mới cho khách hàng.

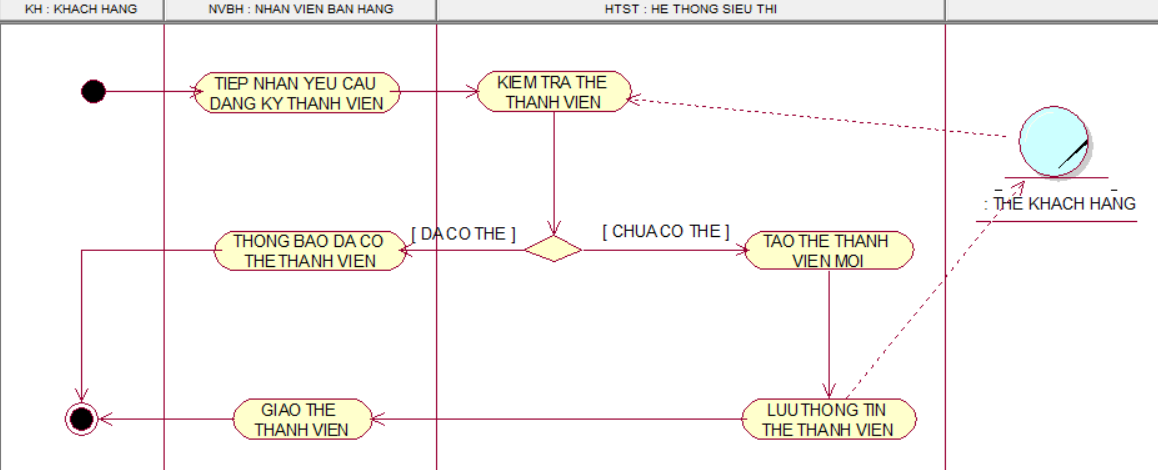
1. Yêu cầu bảo hành

Khách hàng sau khi mua hàng tại cửa hàng, trong thời gian quy định, sản phẩm bị hỏng, khách hàng có thể yêu cầu bảo hành sản phẩm.

1. Vẽ mô hình use case nghiệp vụ



1. Mô hình Activity diagram
2. Activity diagram của use case “Dang ky TV”



\* Đặc tả

- Use case nghiệp vụ: Đăng ký thành viên.

Nghiệp vụ bắt đầu khi có một khách hàng đến cửa hàng để đăng ký thành viên. Mục tiêu của công việc nhầm cung cấp qui trình xử lý tạo một tài khoản thành viên mới.

- Các dòng cơ bản:

+ Nhân viên bán hàng tiếp nhận yêu cầu tạo thẻ thành viên của khách hàng.

+ Nhân viên nhập thông tin khách hàng

+ Hệ thống kiểm tra số điện thoại khách hàng đã được sử dụng chưa.

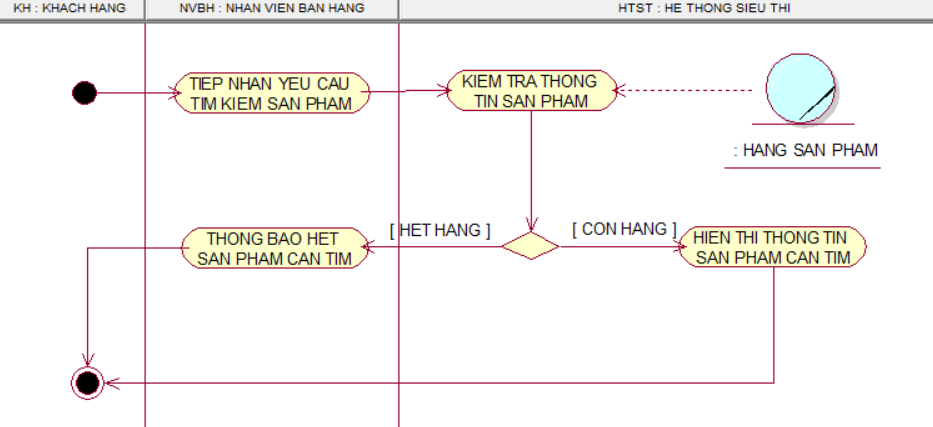
+ Tạo một tài khoản mới cho khách hàng.

+ Lưu thông tin khách hàng.

- Các dòng thay thế:

Xử lý số điện thoại khách hàng đã được đăng ký, nhân viên thông báo cho khách hàng đăng ký số điện thoại khác hoặc lấy lại tài khoản cũ.

1. Activity diagram của use case “Tim kiem hang”



\* Đặc tả

- Use case nghiệp vụ: Tìm kiếm hàng

Nghiệp vụ bắt đầu khi có một khách hàng đến cửa hàng để tìm kiếm thông tin sản phẩm. Mục tiêu của công việc nhầm cung cấp qui trình xử lý tìm một sản phẩm.

- Các dòng cơ bản:

+ Nhân viên bán hàng tiếp nhận yêu cầu xem thông tin sản phẩm

+ Nhân viên nhập thông tin sản phẩm cần tìm

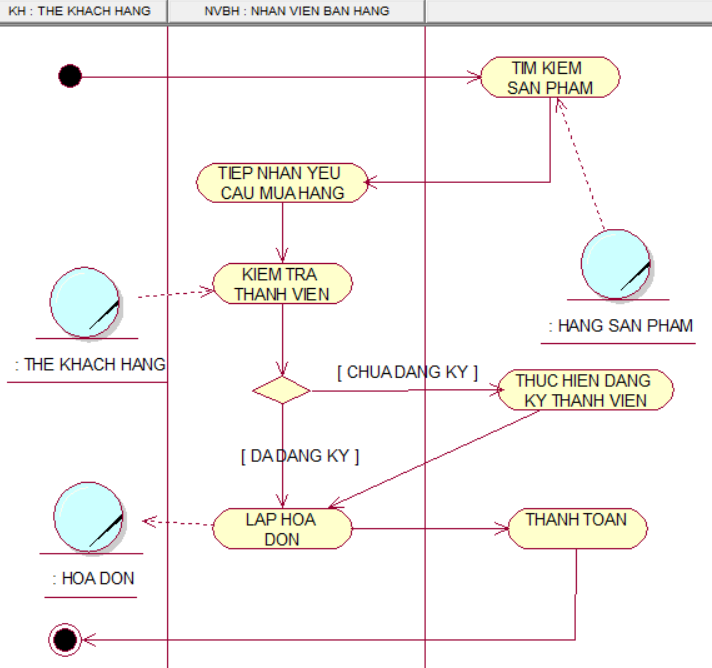
+ Hệ thống kiểm tra sản phẩm cần tìm

+ Hiện thông tin sản phẩm

- Các dòng thay thế:

Xử lý sản phẩm hết hàng, nhân viên thông báo cho khách hàng là sản phẩm cần tìm đã hết hàng, khách hàng chuyển sang sản phẩm khác.

1. Activity diagram của use case “Mua hang”



\* Đặc tả

- Use case nghiệp vụ: Mua hang

Nghiệp vụ bắt đầu khi có một khách hàng đến cửa hàng để mua hàng. Mục tiêu của công việc nhầm cung cấp qui trình xử lý tạo ra một đơn hàng

- Các dòng cơ bản:

+ Sau khi khách hàng tìm kiếm sản phẩm

+ Nhân viên tiếp nhận yêu cầu mua hàng của khách hàng

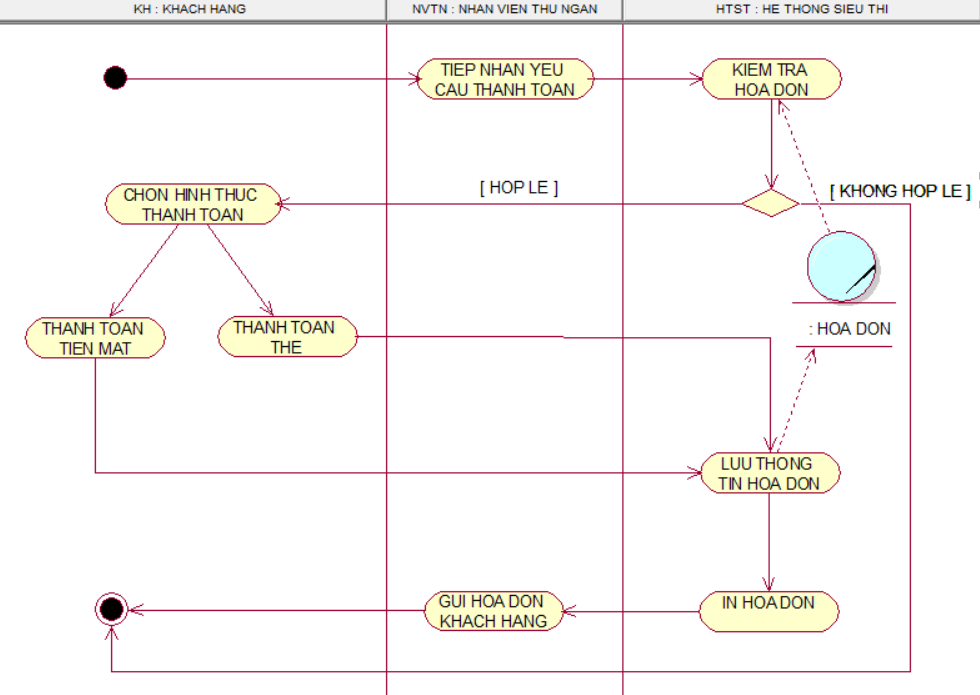
+ Nhân viên lập hóa đơn bao gồm các sản phẩm khách hàng mua

+ Nhập thông tin khách hàng

+ Dẫn khách hàng đến quầy thanh toán.

- Các dòng thay thế:

1. Activity diagram của use case “Thanh toan”



\* Đặc tả

- Use case nghiệp vụ: Thanh toan

Nghiệp vụ bắt đầu khi có một khách hàng đến quầy thanh toán để thanh toán. Mục tiêu của công việc nhầm cung cấp qui trình xử lý thanh toán hóa đơn.

- Các dòng cơ bản:

+ Nhân viên thu ngân tiếp nhận yêu cầu thanh toán của khách hàng.

+ Nhân viên kiểm tra hóa đơn

+ Chọn hình thức thanh toán

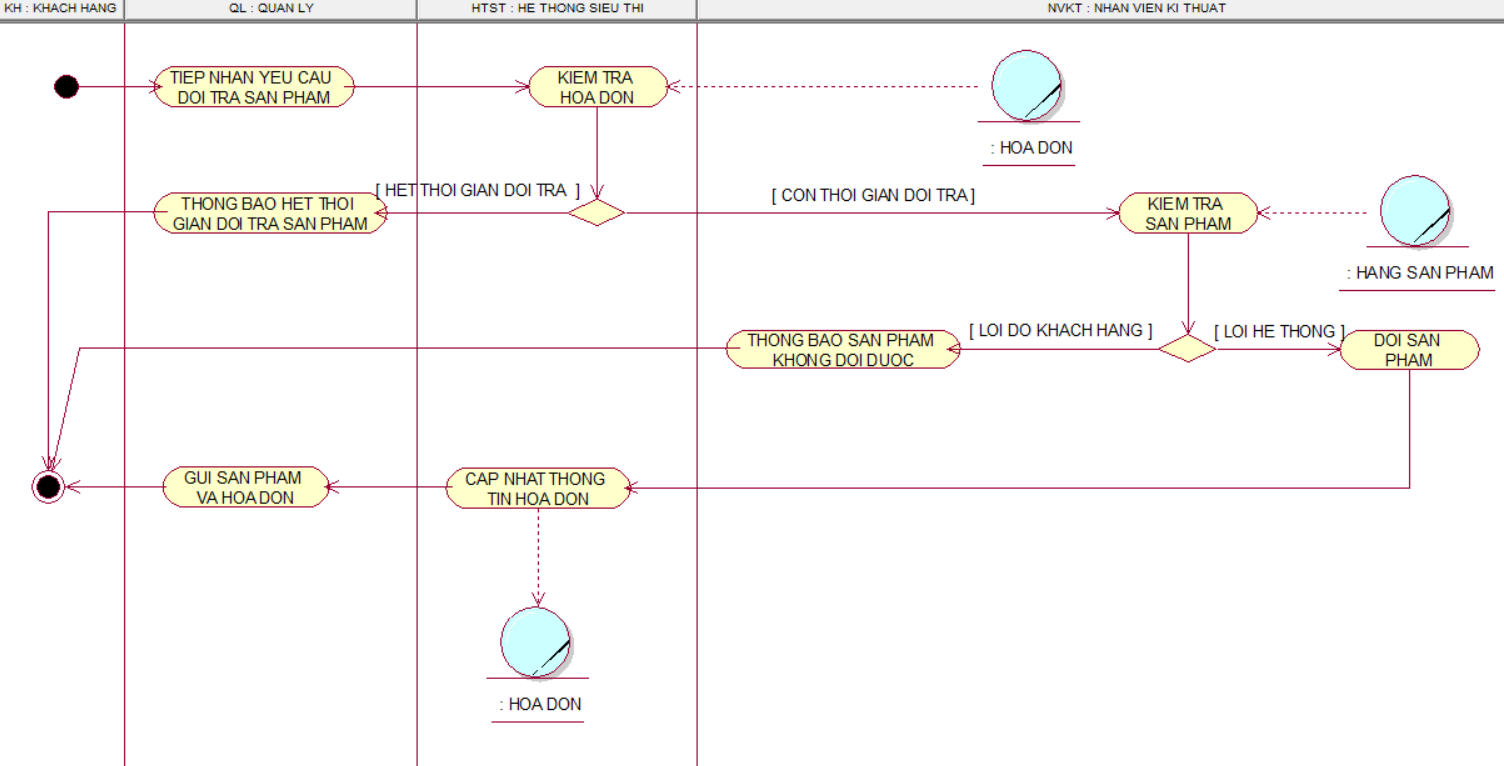
+ Tiền mặt hoặc sử dụng thẻ ngân hàng

+ In hóa đơn

- Các dòng thay thế:

Xử lý thông tin trên hóa đơn không đúng với thông tin khách hàng.

1. Activity diagram của use case “Doi hang”



\* Đặc tả

- Use case nghiệp vụ: Doi hang

Nghiệp vụ bắt đầu khi có một khách hàng đến cửa hàng để yêu cầu đổi hàng. Mục tiêu của công việc nhầm cung cấp qui trình xử lý đổi hàng mới cho khách hàng.

- Các dòng cơ bản:

+ Nhân viên bán hàng tiếp nhận yêu cầu đổi hàng của khách hàng.

+ Nhân viên kiểm tra thông tin hóa đơn trên hệ thống.

+ Nhân viên kiểm tra thông tin khách hàng trên hệ thống.

+ Kiểm tra sản phẩm còn nguyên vẹn theo quy định cửa hàng không.

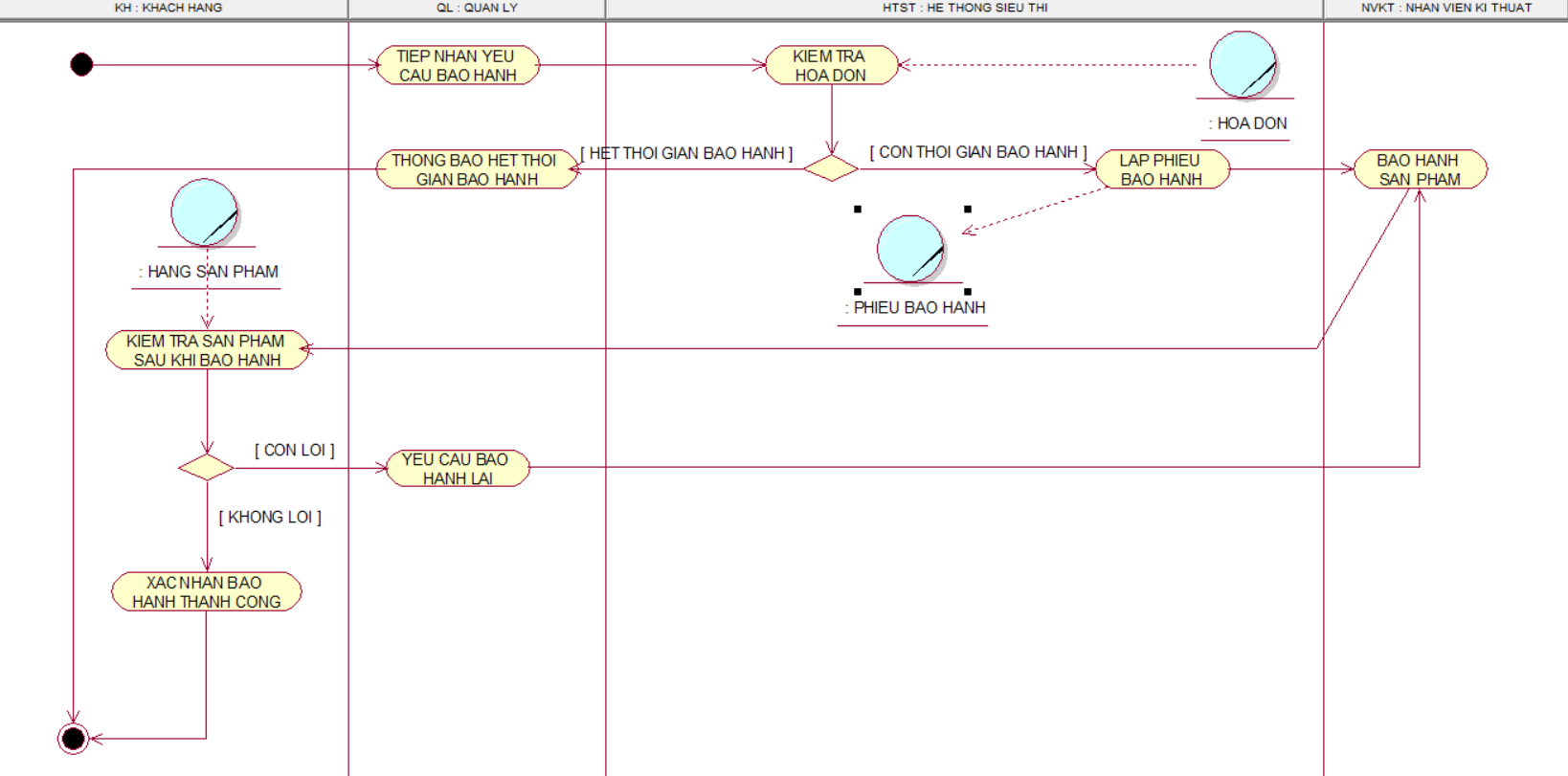
+ Đổi hàng mới cho khách hàng.

- Các dòng thay thế:

+ Xử lý hết thời gian đổi hàng. Không chấp nhận yêu cầu đổi hàng của khách hàng.

+ Xử lý sản phẩm cần đổi bị hư hỏng, không đúng theo quy định cửa hàng. Không chấp nhận yêu cầu đổi hàng của khách hàng.

1. Activity diagram của use case “Yeu cau bao hanh”



\* Đặc tả

- Use case nghiệp vụ: Yeu cau bao hanh

Nghiệp vụ bắt đầu khi có một khách hàng đến cửa hàng để yêu cầu bảo hành sản phẩm. Mục tiêu của công việc nhầm cung cấp qui trình bảo hành sản phẩm của cửa hàng.

- Các dòng cơ bản:

+ Quản lý tiếp nhận yêu cầu bảo hành sản phẩm của khách hàng.

+ Kiểm tra hóa đơn mua hàng của khách hàng.

+ Kiểm tra thông tin bảo hành.

+ Lập phiếu bảo hành

+ Quản lý cử nhân viên kĩ thuật tới sữa chữa.

+ Khách hàng kiểm tra kết quả bảo hành.

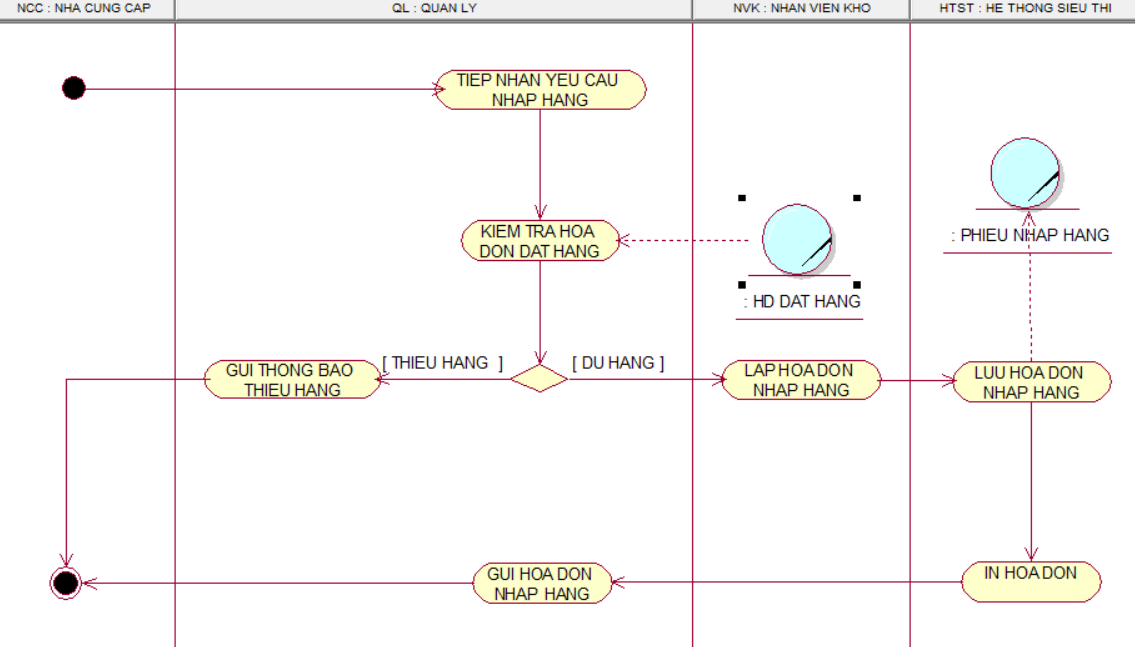
+ Xác nhận bảo hành thành công.

- Các dòng thay thế:

+ Xử lý hết thời gian bảo hành thì không chấp nhận yêu cầu bảo hành của khách hàng.

+ Xử lý bảo hành sản phẩm chưa được, yêu cầu bảo hành lại, người quản lý yêu cầu nhân viên kĩ thuật tới sữa lại.

1. Activity diagram của use case “Cung cap hang”



\* Đặc tả

- Use case nghiệp vụ: Cung cap hang

Nghiệp vụ bắt đầu khi có một đơn hàng từ nhà cung cấp đến cửa hàng. Mục tiêu của công việc nhầm cung cấp qui trình xử lý nhập hàng.

- Các dòng cơ bản:

+ Người quản lý tiếp nhận đơn hàng nhập.

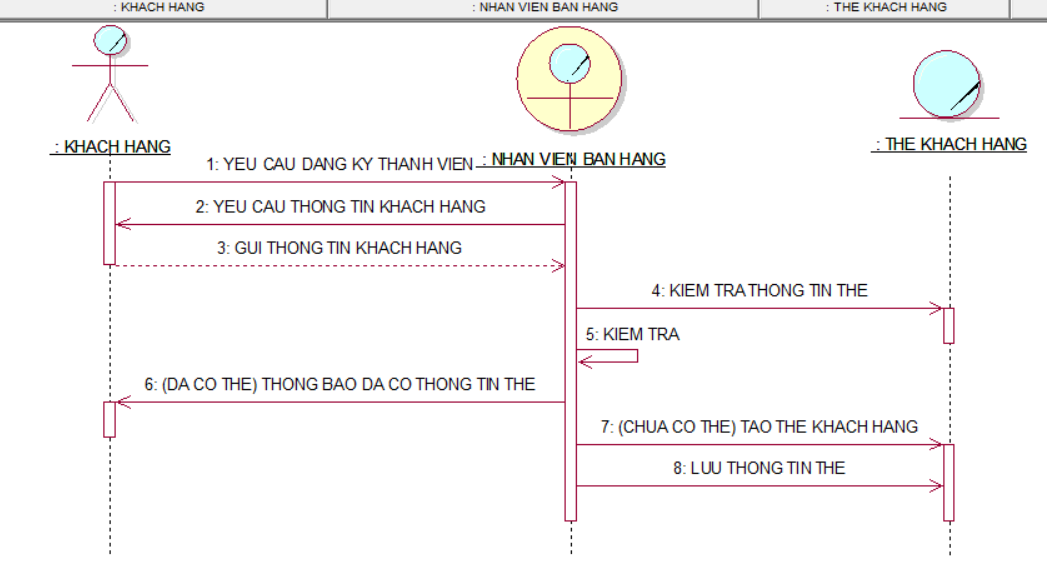
+ Kiểm tra sản phẩm và số lượng

+ Quản lý yêu cầu nhân viên kho lập phiếu nhập và nhập hàng vào csdl.

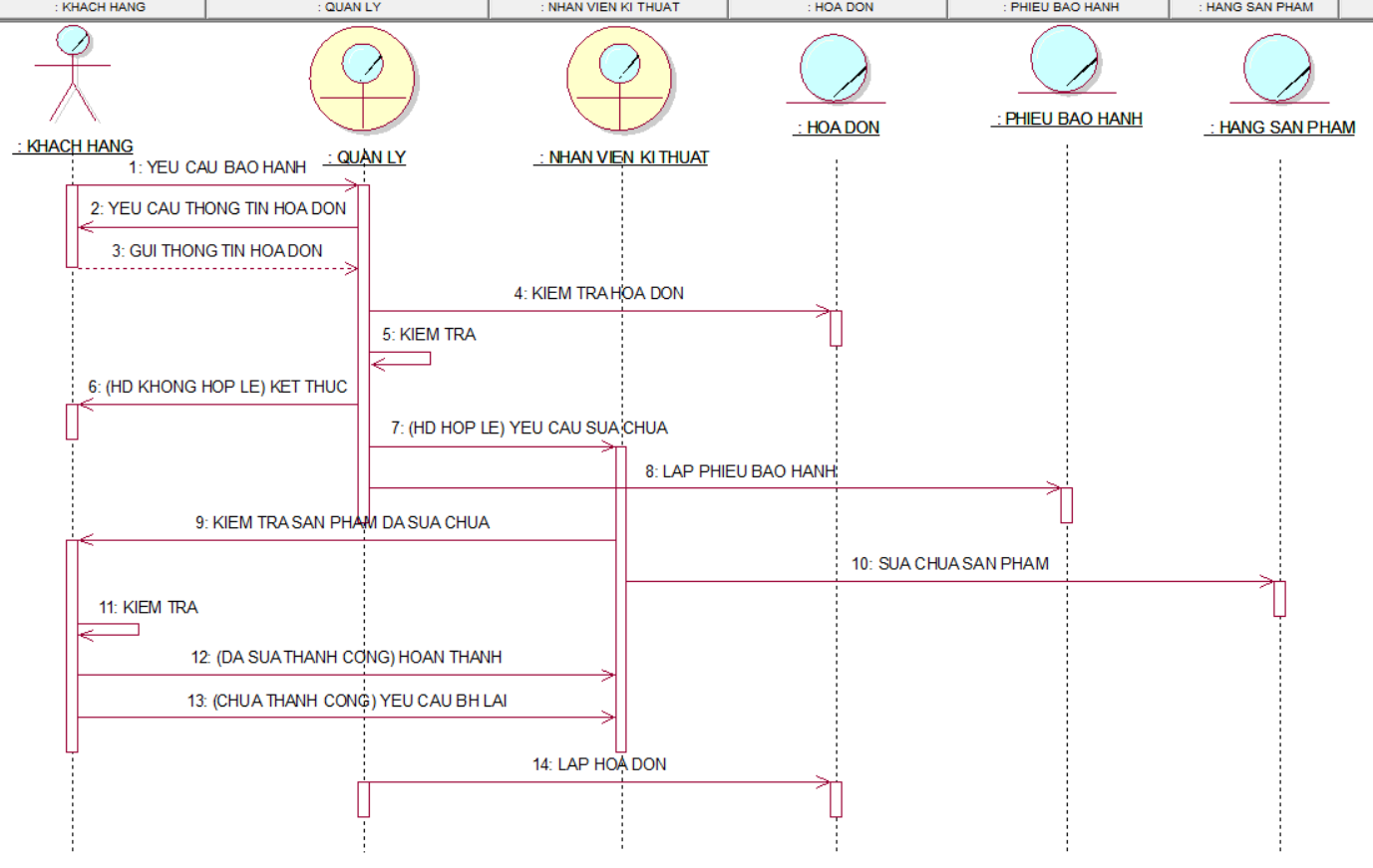
- Các dòng thay thế:

Xử lý đơn hàng của nhà cung cấp bị lỗi hoặc không đủ số lượng, thông báo cho nhà cung cấp để xử lý.

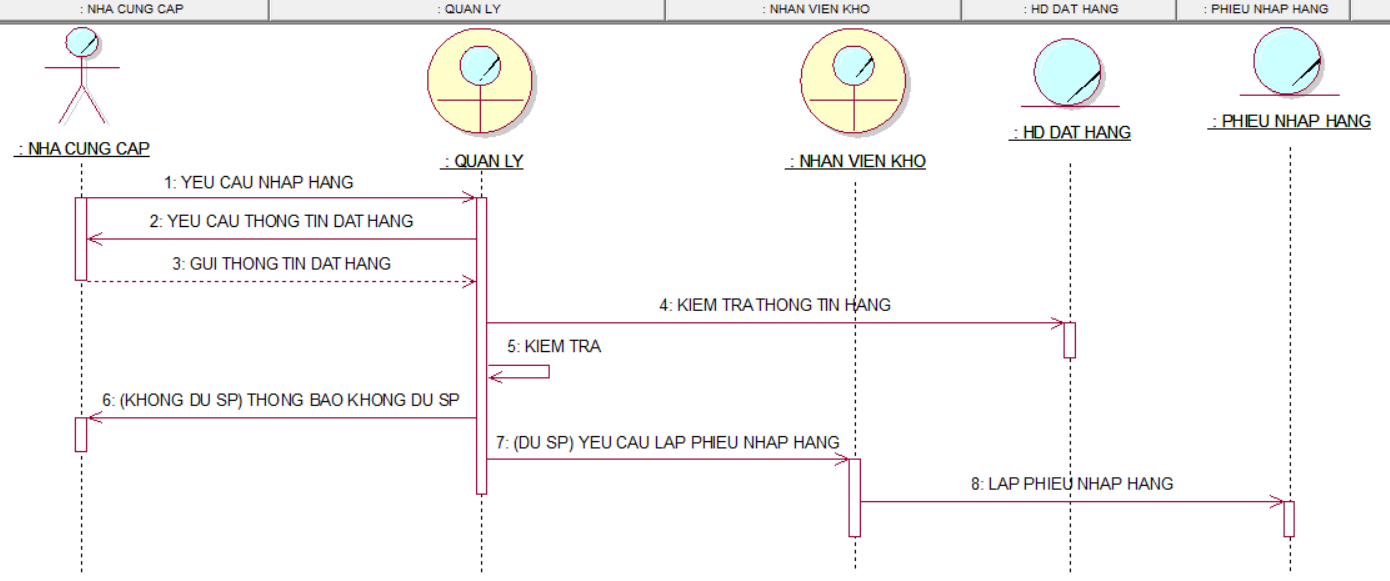
1. Sơ đồ tuần tự
2. Sơ đồ tuần tự của use case “Đăng ký thành viên”.



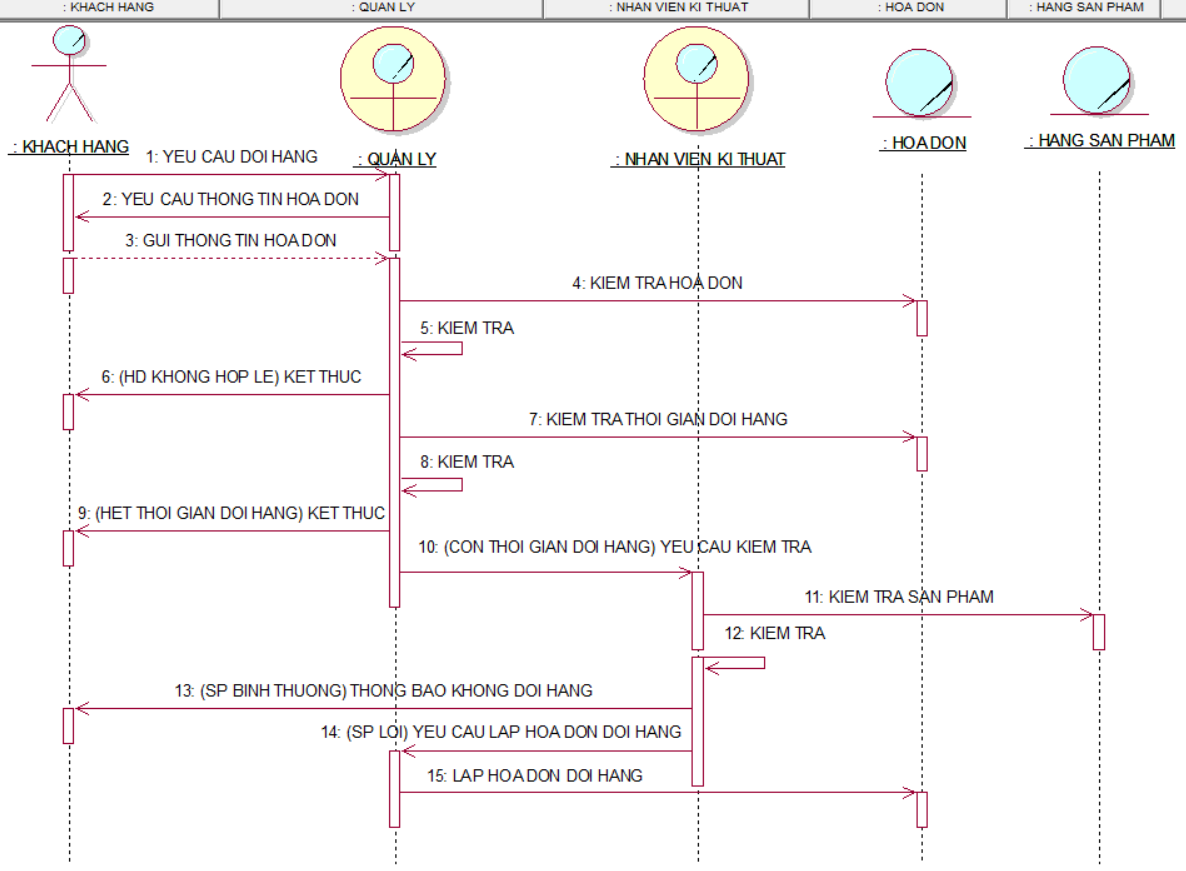
1. Sơ đồ tuần tự của use case “Bảo hành sản phẩm”.



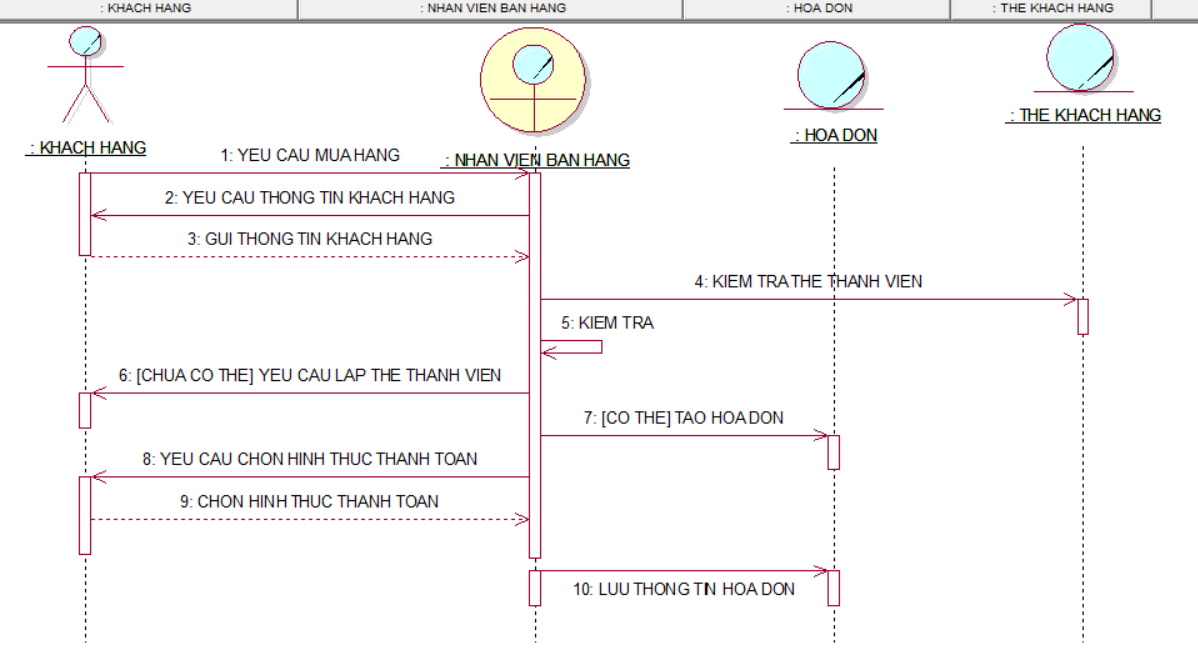
1. Sơ đồ tuần tự của use case “Cung cấp sản phẩm”.



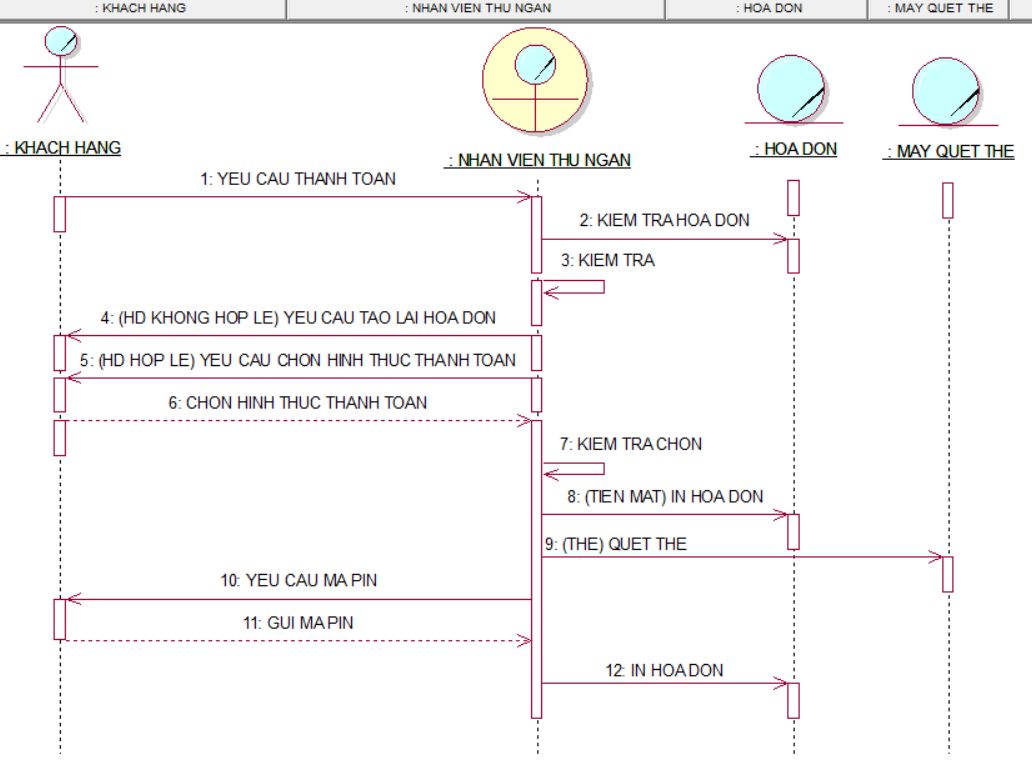
1. Sơ đồ tuần tự của use case “Đổi trả sản phẩm”.



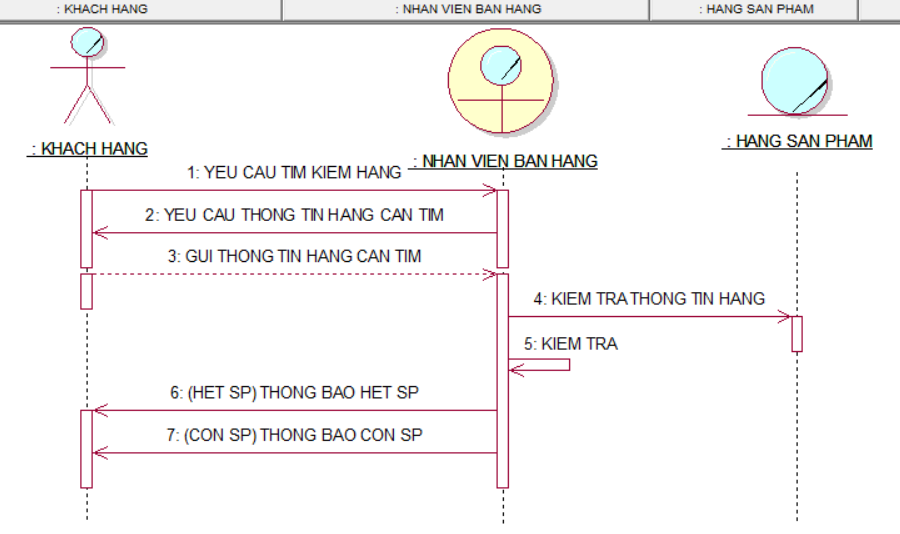
1. Sơ đồ tuần tự của use case “Mua sản phẩm”.



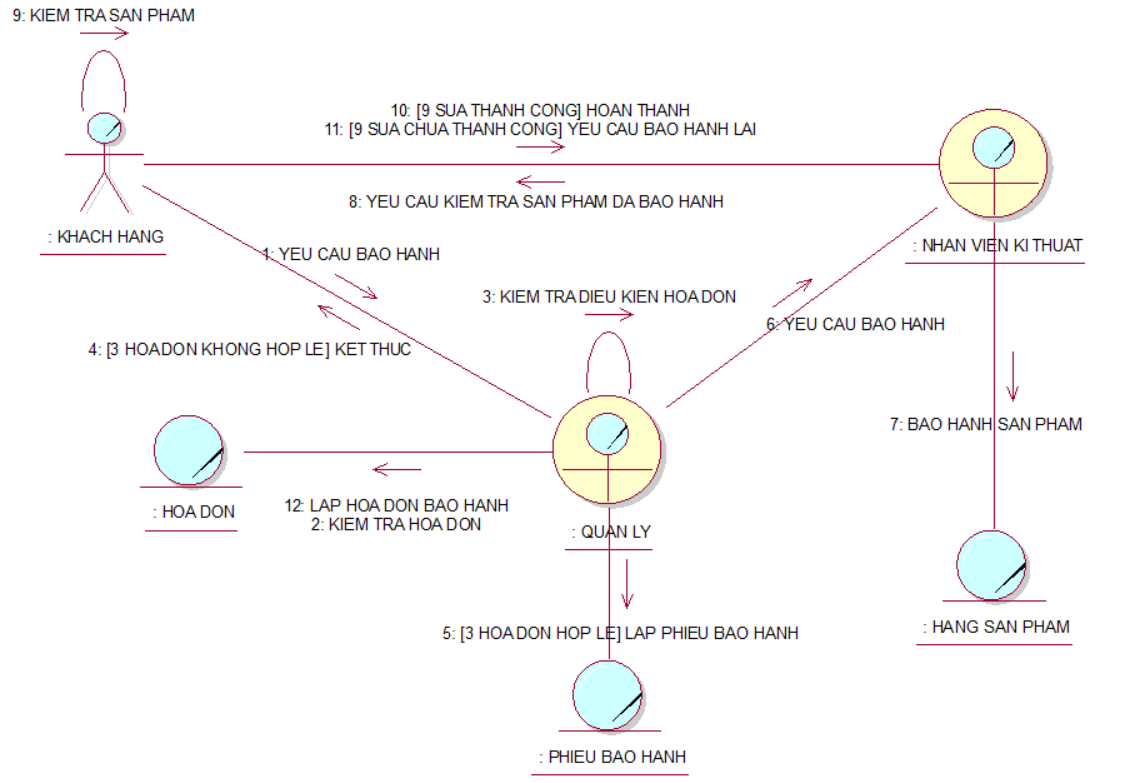
1. Sơ đồ tuần tự của use case “Thanh toán hóa đơn”.



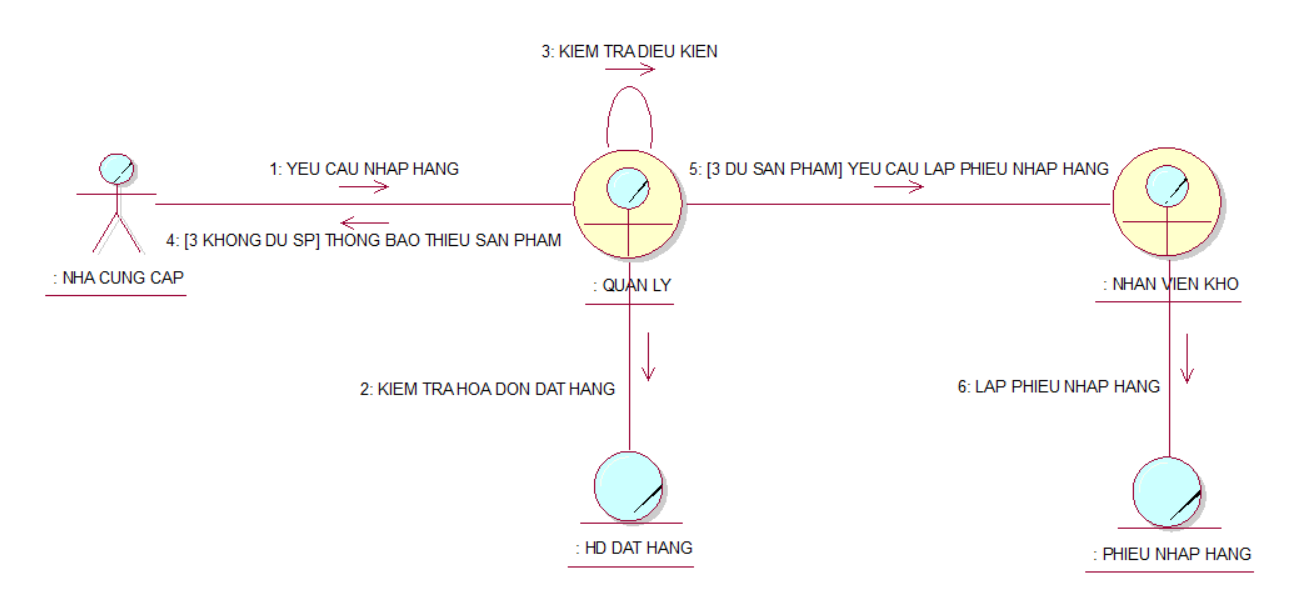
1. Sơ đồ tuần tự của use case “Tìm kiếm sản phẩm”.



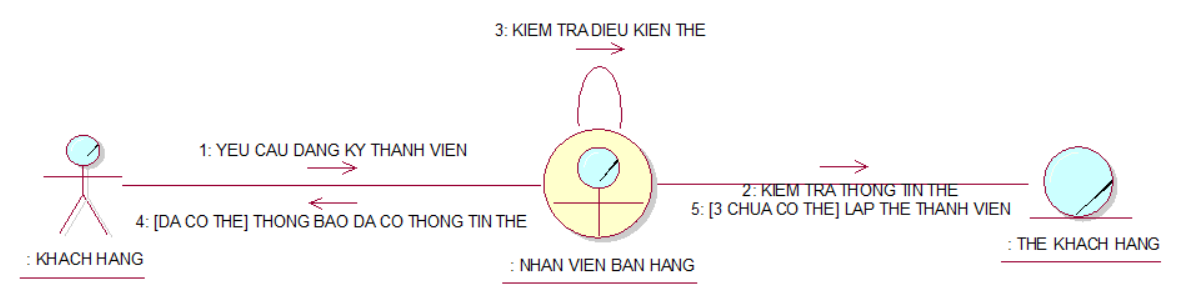
1. Sơ đồ cộng tác
2. Sơ đồ cộng tác của use case “Bảo hành sản phẩm”.



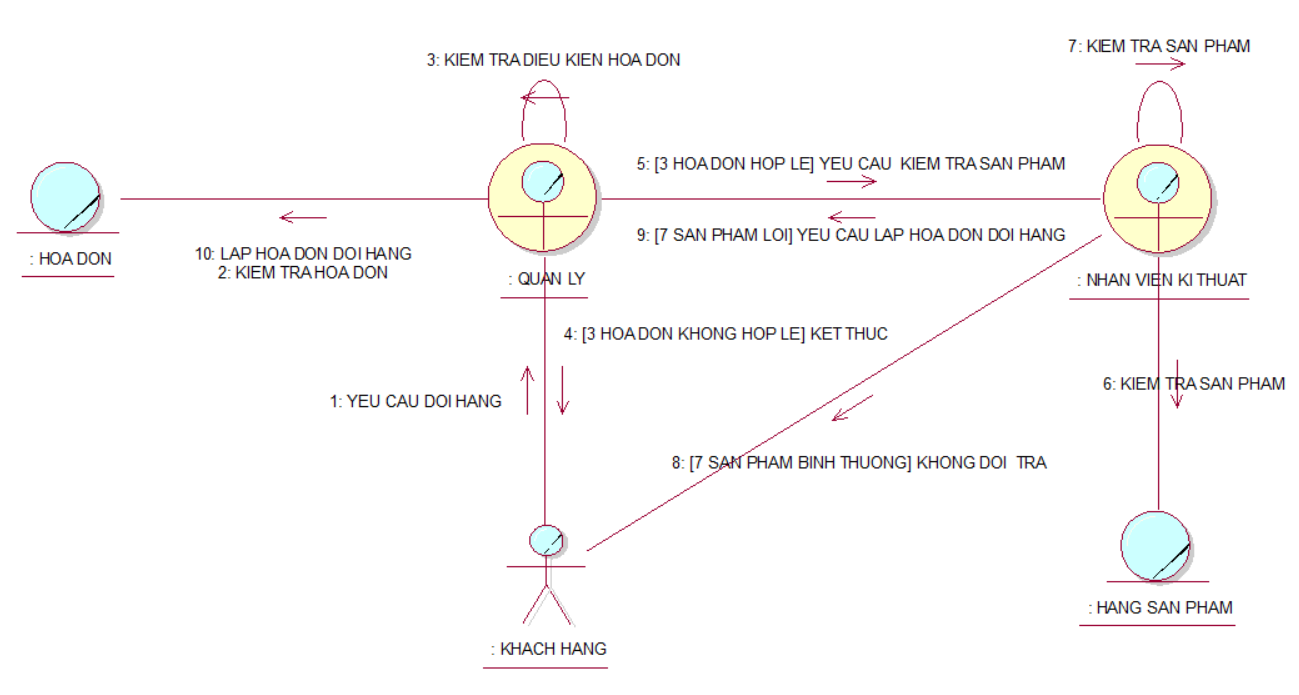
1. Sơ đồ cộng tác của use case “Cung cấp sản phẩm”.



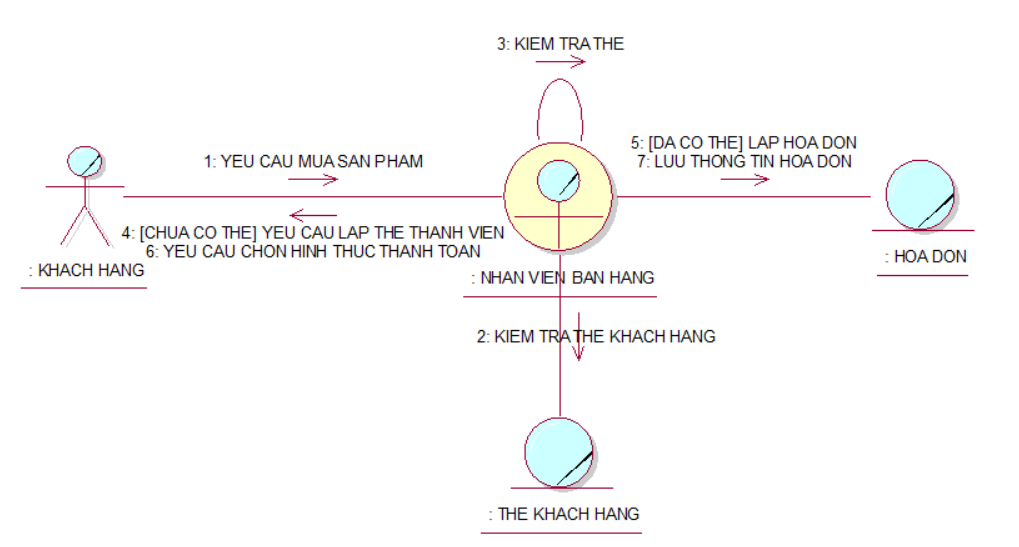
1. Sơ đồ cộng tác của use case “Đăng ký thành viên”.



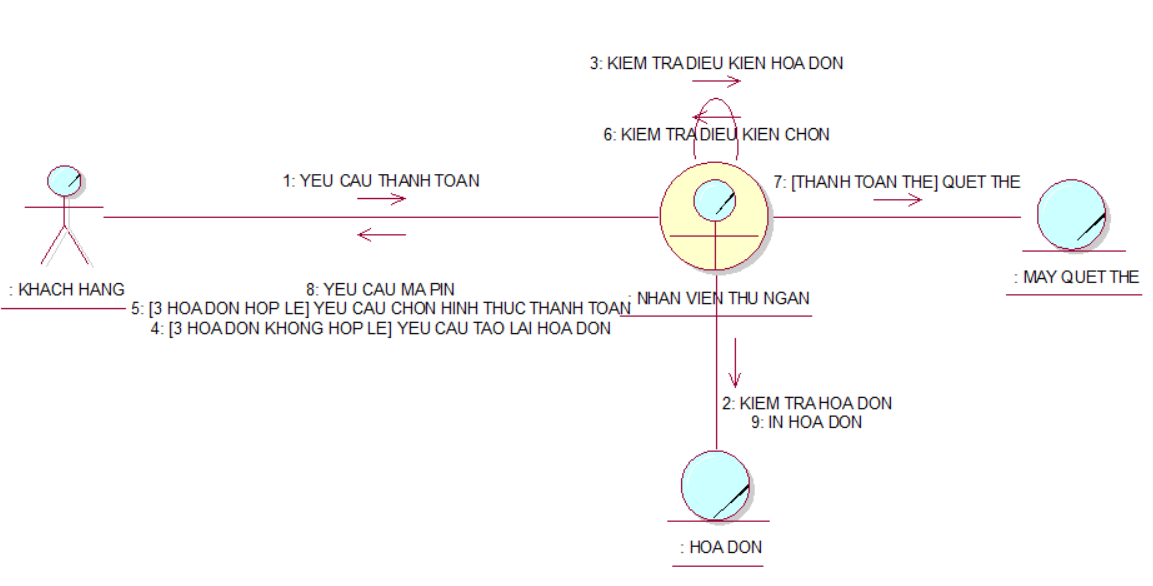
1. Sơ đồ cộng tác của use case “Đổi trả sản phẩm”.

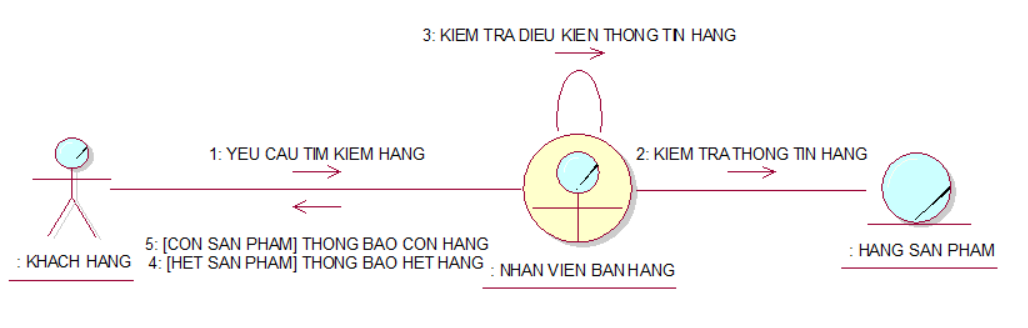


1. Sơ đồ cộng tác của use case “Mua sản phẩm”.



1. Sơ đồ cộng tác của use case “Thanh toán hóa đơn”.



1. Sơ đồ cộng tác của use case “Tìm kiếm sản phẩm”. 
2. Mô hình use case hệ thống
3. Xác định các actor hệ thống

- Khách hàng

- Người quản lý

- Nhân viên bán hàng

- Nhân viên kho

- Nhân viên thu ngân

1. Xác định các use case hệ thống của từ actor

* Mô tả

Một cửa hàng điện máy cần xây dựng một hệ thống quản lý như sau: Khách hàng mua hàng online có thể thực hiện tìm kiếm sản phẩm, đăng ký thành viên, mua hàng và thanh toán online thông qua thẻ ngân hàng trên website của cửa hàng. Khi khách hàng muốn mua trực tiếp tại cửa hàng thì nhân viên bán hàng sẽ thực hiện tìm kiếm sản phẩm khách hàng yêu cầu, kiểm tra tài khoản khách hàng nếu khách hàng chưa có tài khoản thì thực hiện đăng kí tài khoản, nếu có thì thực hiện lập hóa đơn cho khách hàng. Sau khi nhân viên bán hàng lập hóa đơn sẽ dẫn khách hàng tới quầy thu ngân để thực hiện thanh toán. Tại đây nhân viên thu ngân sẽ kiểm tra hóa đơn và yêu cầu khách hàng chọn hình thức thanh toán. Có 2 loại hình thức thanh toán là thanh toán bằng tiền mặt và thanh toán bằng thẻ, khách hàng thực hiện thanh toán. Nhân viên kho có nhiệm vụ thống kê quản lý hàng trong kho, nhập hàng từ nhà cung cấp, thống kê các sản phẩm tồn kho. Nhân viên thu ngân xác nhận thanh toán, sau đó in hóa đơn gửi cho khách hàng. Nhân viên quản lý của cửa hàng sẽ quản lý thông tin khách hàng, thông tin nhân viên, thông tin hóa đơn, thông tin kho, lập báo cáo thống kê, xử lý bảo hành và đổi trả sản phẩm.

* + Người quản lý

+ Quản lý kho

+ Quản lý hóa đơn

+ Quản lý nhân viên

+ Quản lý khách hàng

+ Lập báo cáo thống kê

+ Xử lý đổi hàng

+ Xử lý bảo hành

- Nhân viên bán hàng

+ Lập hóa đơn

+ Tìm kiếm sản phẩm

+ Đăng ký tài khoản khách hàng

- Nhân viên kho

+ Thống kê nhập hàng

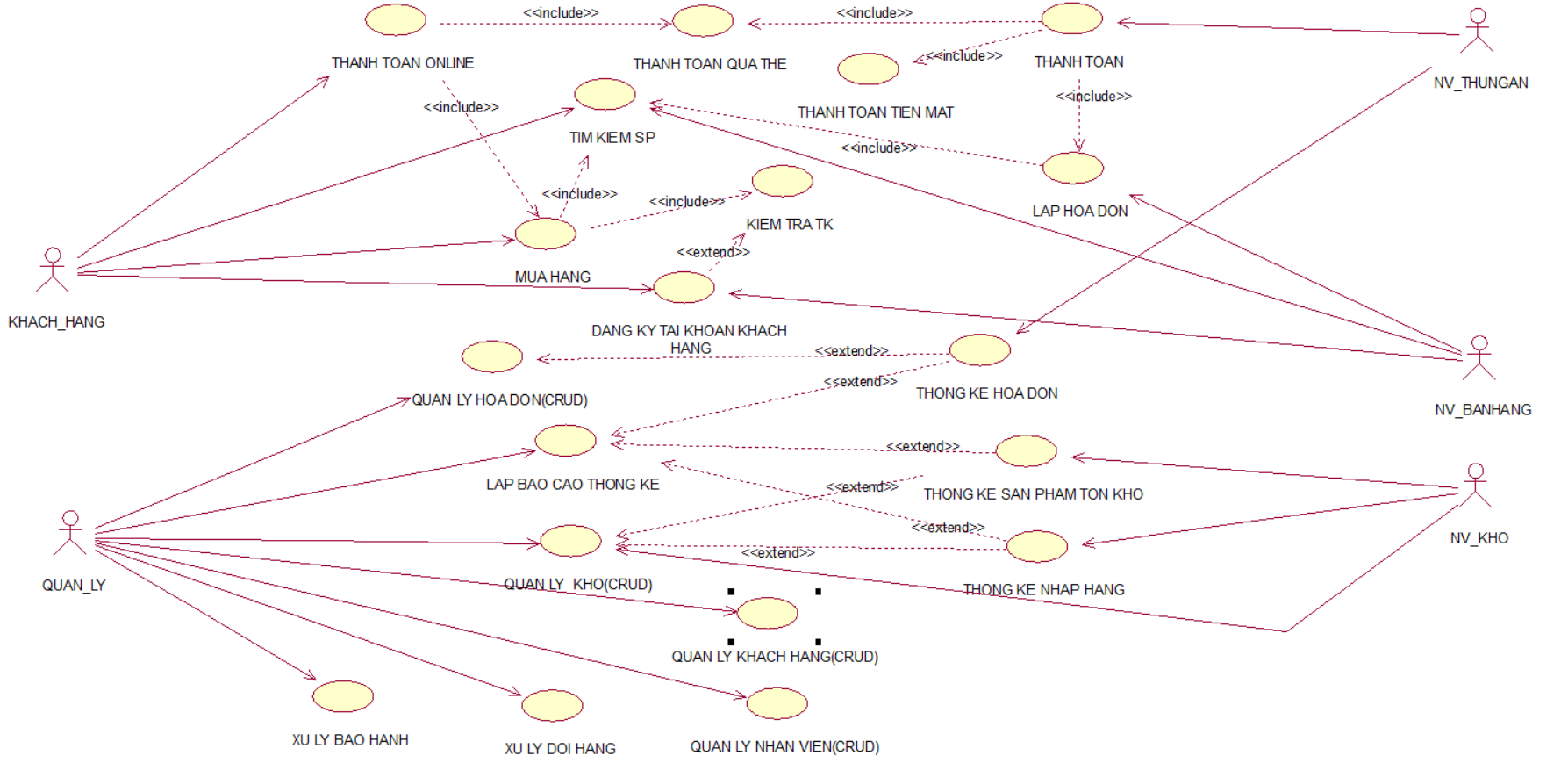
+ Thống kê sản phẩm tồn kho

+ Quản lý kho

- Nhân viên thu ngân

+ Thanh toán

+ Thống kê hóa đơn



* Các sơ đồ tuần tự cho các chức năng
  + Xử lý bảo hành



* + Đăng ký thành viên



* + Xử lý đổi trả



* + Lập hóa đơn



* + Thanh toán hóa đơn



* + Tìm kiếm sản phẩm



1. Sơ đồ lớp

1.Sơ đồ lớp mức phân tích

Một siêu thị điện máy cần xây dựng hệ thống quản lý hàng hóa của cửa hàng. Siêu thị hiện đang có những hoạt động như sau: Hệ thống siêu thị phủ khắp trên toàn quốc nên mỗi siêu thị sẽ thuộc một khu vực khác nhau. Đối với mỗi khu vực cần lưu mã khu vực và tên khu vực. Mỗi khu vực thì sẽ có nhiều siêu thị hoạt động trên khu vực đó. Siêu thị nhập hàng từ nhà cung cấp. Các nhà cung cấp cung cấp nhiều mặt hàng khác nhau với số lượng khác nhau. Các nhà cung cấp cần lưu mã nhà cung cấp, tên nhà cung cấp, địa chỉ, website, số điện thoại. Siêu thị bán nhiều sản phẩm, mỗi sản phẩm cần lưu thông tin như mã sản phẩm, tên sản phẩm, ảnh sản phẩm, kích thước, trọng lượng, màu sắc, giá bán. Mỗi sản phẩm thuộc một loại hàng khác nhau, loại hàng cần lưu thông tin mã loại hàng và tên loại hàng. Các loại hàng thuộc một chủng loại, một chủng loại cần lưu thông tin mã chủng loại và tên chủng loại. Cửa hàng có nhiều nhân viên và mỗi nhân viên cần lưu thông tin mã nhân viên, tên nhân viên, địa chỉ, chứng minh nhân dân, ngày sinh, số điện thoại, lương, giới tính, ảnh. Mỗi nhân viên sẽ được cấp một tài khoản, tài khoản lưu thông tin mã tài khoản, tên đăng nhập và mật khẩu của nhân viên. Mỗi tài khoản sẽ thực hiện các chức vụ khác nhau nên sẽ được phân loại tài khoản, loại tài khoản cần lưu mã loại tài khoản và tên loại tài khoản. Mỗi nhà cũng cấp khi cung cấp hàng cho siêu thị sẽ được nhân viên kho lập phiếu nhập hàng.Mỗi phiếu nhập hàng cần lưu thông tin mã phiếu nhập, ngày nhập, sản phẩm, tông giá trị sản phẩm nhập. Khi khách hàng đến mua hàng tại siêu thị thì cần lưu thông tin khách hàng gồm: mã khách hàng, tên khách hàng, địa chỉ, số điện thoại, giới tính, ngày sinh, điểm tích lũy sau mỗi lần mua hàng của khách hàng. Khi mua hàng nhân viên siêu thị sẽ thực hiện lập hóa đơn cho khách hàng, hóa đơn cần lưu mã hóa đơn, mã sản phẩm mà khách hàng mua, nhân viên thực hiện tạo hóa đơn cho khách hàng, ngày lập và tổng tiền của hóa đơn. Khi khách hàng mua hàng. Sản phẩm bị hư hỏng, khách hàng có thể đổi hàng hoặc được bảo hành. Nếu còn trong thời gian quy định là 7 ngày, khách hàng có thể đổi hàng. Khi đổi hàng, nhân viên cần kiểm tra hóa đơn, sản phẩm. Nếu thỏa thì thực hiện lập hóa đơn mới. Còn nếu hết thời hạn 7 ngày nhưng vẫn còn thời hạn bảo hành. Khách hàng sẽ được nhân viên lập phiếu bảo hành để đến sửa chửa sản phẩm. Thông tin phiếu bảo hành gồm mã phiếu bảo hành, ngày bảo hành, tình trạng sản phẩm, trạng thái đã hoàn thành sửa chửa chưa.



2.Sơ đồ lớp mức thiết kế.



1. Xây dựng cơ sỡ dữ liệu

* Cơ sỡ dữ liệu bao gồm 15 bảng:

Bảng chủng loại

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MACL | Mã chủng loại | Nchar(10) | Khóa chính |
| TENCL | Tên chủng loại | Nvarchar(100) |  |

Bảng loại hàng

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MALH | Mã loại hàng | Nchar(10) | Khóa chính |
| TENLH | Tên loại hàng | Nvarchar(100) |  |
| MACL | Mã chủng loại | Nchar(10) | Khóa ngoại |

Bảng sản phẩm

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MASP | Mã sản phẩm | Nchar (10) | Khóa chính |
| TENSP | Tên sản phẩm | Nvarchar (100) |  |
| ANHSP | Ảnh sản phẩm | Nvarchar (50) |  |
| GIABAN | Giá bán | Float |  |
| KICHTHUOC | Kích thước | Nchar (50) |  |
| TRONGLUONG | Trọng lượng | Nchar (10) |  |
| MAUSAC | Màu sắc | Nchar (10) |  |
| MALH | Mã loại hàng | Nchar (10) | Khóa ngoại |

Bảng nhà cung cấp

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MANCC | Mã nhà cung cấp | Nchar(10) | Khóa chính |
| TENNCC | Tên nhà cung cấp | Nvarchar(100) |  |
| DIACHI | Địa chỉ | Nvarchar(max) |  |
| SDT | Số điện thoại | Nchar(11) |  |
| WEBSITE | Website | Nchar(50) |  |

Bảng phiếu nhập

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MAPN | Mã phiếu nhập | Nchar(10) | Khóa chính |
| NGAYNHAP | Ngày nhập | Date |  |
| MANV | Mã nhân viên | Nchar(10) | Khóa ngoại |
| MANCC | Mã nhà cung cấp | Nchar(10) | Khóa ngoại |
| TONGTIEN | Tổng tiền | Float |  |

Bảng chi tiết phiếu nhập

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MAPN | Mã phiếu nhập | Nchar(10) | Khóa chính |
| MASP | Mã sản phẩm | Nchar(10) | Khóa chính |
| SOLUONG | Số lượng | Int |  |
| GIANHAP | Giá nhập | Float |  |
| THANHTIEN | Thành tiền | Float |  |

Bảng khu vực

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MAKV | Mã khu vực | Nchar(10) | Khóa chính |
| TENKV | Tên khu vực | Nvarchar(50) |  |

Bảng cửa hàng

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MACH | Mã cửa hàng | Nchar(10) | Khóa chính |
| TENCH | Tên cửa hang | Nvarchar(50) |  |
| DIACHI | Địa chỉ | Nvarchar(max) |  |
| MAKV | Mã khu vực | Nchar(10) | Khóa ngoại |

Bảng hóa đơn

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MAHD | Mã hóa đơn | Nchar(10) | Khóa chính |
| MAKH | Mã khách hang | Nchar(10) | Khóa ngoại |
| MANV | Mã nhân viên | Nchar(10) | Khóa ngoại |
| NGAYLAP | Ngày lập | Date |  |
| TONGGIA | Tổng giá | Float |  |
| MACH | Mã cửa hàng | Nchar(10) | Khóa ngoại |

Bảng chi tiết hóa đơn

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MAHD | Mã hóa đơn | Nchar(10) | Khóa chính |
| MASP | Mã sản phẩm | Nchar(10) | Khóa chính |
| SOLUONG | Số lượng | Int |  |
| THANHTIEN | Thành tiền | float |  |

Bảng phiếu bảo hành

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MAPHIEUBH | Mã phiếu bảo hành | Nchar(10) | Khóa chính |
| NGAYBH | Ngày bảo hành | Date |  |
| TINHTRANG | Tình trạng | Nchar(50) |  |
| TRANGTHAI | Trạng thái | Nchar(20) |  |
| MAHD | Mã hóa đơn | Nchar(10) | Khóa ngoại |

Bảng khách hàng

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MAKH | Mã khách hàng | Nchar(10) | Khóa chính |
| TENKH | Tên khách hàng | Nvarchar(100) |  |
| DIACHI | Địa chỉ | Nvarchar(100) |  |
| SDT | Số điện thoại | Nchar(11) |  |
| GIOITINH | Giới tính | Nchar(5) |  |
| NGAYSINH | Ngày sinh | Date |  |
| DIEMTL | Điểm tích lũy | Int |  |
| MATK | Mã khách hàng | Nchar(10) | Khóa ngoại |

Bảng tài khoản

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MATK | Mã tài khoản | Nchar(10) | Khóa chính |
| TENTK | Tên tài khoản | Nvarchar(50) |  |
| MATKHAU | Mật khẩu | Nvarchar(50) |  |
| MALTK | Mã loại tài khoản | Nchar(10) | Khóa ngoại |

Bảng loại tài khoản

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MALTK | Mã loại tài khoản | Nchar(10) | Khóa chính |
| TENLTK | Tên loại tài khoản | Nvarchar(100) |  |

Bảng nhân viên

|  |  |  |  |
| --- | --- | --- | --- |
| Tên viết tắt | Tên thuộc tính | Kiểu dữ liệu | Khóa |
| MANV | Mã nhân viên | Nchar(10) | Khóa chính |
| TENNV | Tên nhân viên | Nvarchar(100) |  |
| DIACHI | Địa chỉ | Nvarchar(100) |  |
| MATK | Mã tài khoản | Nchar(10) | Khóa ngoại |
| CMND | Chứng minh nhân dân | Nchar(9) |  |
| NGAYSINH | Ngày sinh | Date |  |
| SDT | Số điện thoại | Nchar(11) |  |
| LUONG | Lương | Float |  |
| GIOITINH | Giới tính | Nchar(5) |  |
| ANH | ảnh | Nchar(30) |  |

* Lược đồ diagram



* Nhập dữ liệu mẫu

Bảng chủng loại

|  |  |
| --- | --- |
| CL001 | ĐIỆN TỬ |
| CL002 | ĐIỆN LẠNH |
| CL003 | GIA DỤNG |
| CL004 | DI ĐỘNG - TABLET |
| CL005 | NỘI THẤT |
| NULL | NULL |

Bảng loại hàng

|  |  |  |
| --- | --- | --- |
| LH001 | TIVI LED | CL001 |
| LH002 | DÀN MÁY | CL001 |
| LH003 | LOA THANH (SOUNDBAR) | CL001 |
| LH004 | CASSETTE | CL001 |
| LH005 | ĐẦU KARAOKE | CL001 |
| LH006 | LOA | CL001 |
| LH007 | AMPLY | CL001 |
| LH008 | MICRO | CL001 |
| LH009 | PHỤ KIỆN ĐIỆN TỬ | CL001 |
| LH010 | LOA KÉO | CL001 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| SP001 | Android Tivi Sony 4K 43inch KD-43X8000G VN3 O3 | HINHANH1 | 11400000 | 97 x 57 x 5.7 cm | 9.6 kg | ĐEN | LH001 |
| SP002 | Smart Tivi LG 43 Inch 4K UHD 43UM7100PTA O1 | HINHANH2 | 11900000 | 97.5 x 57.4 x 8.03 cm | 8.3 Kg | ĐEN | LH001 |
| SP003 | Smart Tivi Panasonic 32 Inch TH-32GS550V O3 | HINHANH3 | 5990000 | 72.0 x 8.9 x 42 cm | 9.6 kg | ĐEN | LH001 |
| SP004 | Smart Tivi SHARP 40 inch LC-40SA5500X O1 | HINHANH4 | 4990000 | 97 x 57 x 5.7 cm | 9.6 kg | ĐEN | LH001 |
| SP005 | Smart Tivi Philips 40 Inch Full HD - 40PFT5883/74 O1 | HINHANH5 | 4990000 | 97 x 57 x 5.7 cm | 9.6 kg | ĐEN | LH001 |

Bảng sản phẩm

Bảng hóa đơn

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| HD01 | KH02 | NV01 | 2020-07-05 | 35200000 | CH11 |
| HD02 | KH02 | NV02 | 2020-07-04 | 23800000 | CH22 |
| HD03 | KH03 | NV03 | 2020-08-04 | 11980000 | CH13 |
| HD04 | KH04 | NV04 | 2020-09-04 | 14970000 | CH22 |
| HD05 | KH05 | NV03 | 2020-07-04 | 19960000 | CH31 |

Bảng chi tiết hóa đơn

|  |  |  |  |
| --- | --- | --- | --- |
| HD01 | SP001 | 1 | 11400000 |
| HD01 | SP002 | 2 | 23800000 |
| HD02 | SP002 | 2 | 23800000 |
| HD03 | SP003 | 2 | 11980000 |
| HD04 | SP004 | 3 | 14970000 |
| HD05 | SP005 | 4 | 19960000 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| NCC001 | SONY | Tầng 6 & 7, Tòa nhà President Place,93 Nguyễn Du, Quận 1. Tp. HCM | 02838222227 | SONY.COM.VN |
| NCC002 | LG | Lô CN2, KCN Tràng Duệ, xã Lê Lợi, huyện An Dương, thành phố Hải Phòng, Việt Nam | 249345151 | LG.COM |
| NCC003 | PANASONIC | Lô J1-J2, Khu công nghiệp Thăng Long, xã Kim Chung, huyện Đông Anh, Tp. Hà Nội, Việt Nam | 0439550111 | PANASONIC.COM |
| NCC004 | SHARP | Số 159, đường Xa Lộ Hà Nội, phường Thảo Điền, Quận 2, TPHCM | 2839107499 | VN.SHARP |
| NCC005 | PHILIPS | Tầng 12, Toà nhà A&B, 76A Lê Lai, P. Bến Thành, Quận 1, Tp. Hồ Chí Minh | 2839111508 | PHILIPS.COM.VN |

Bảng nhà cung cấp

Bảng phiếu nhập

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PN01 | 2020-07-04 | NV01 | NCC001 | 6000000 |
| PN02 | 2020-07-04 | NV01 | NCC001 | 12000000 |
| PN03 | 2020-07-04 | NV01 | NCC001 | 14000000 |
| PN04 | 2020-07-04 | NV01 | NCC001 | 30000000 |
| PN05 | 2020-07-04 | NV01 | NCC001 | 60000000 |

Bảng chi tiết phiếu nhập

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PN01 | SP002 | 2 | 3000000 | 6000000 |
| PN02 | SP001 | 4 | 3000000 | 12000000 |
| PN03 | SP003 | 2 | 7000000 | 14000000 |
| PN04 | SP004 | 5 | 6000000 | 30000000 |
| PN05 | SP005 | 6 | 10000000 | 60000000 |

Bảng khu vực

|  |  |
| --- | --- |
| KV01 | Hồ Chí Minh và lân cận |
| KV02 | Các tỉnh miền Tây |
| KV03 | Các tỉnh miền Trung |

Bảng cửa hàng

|  |  |  |  |
| --- | --- | --- | --- |
| CH01 | Quận 5 | lô g,chung cư hùng vương,p.11 | KV01 |
| CH02 | Tây Ninh | số 176 Đường 30/4, kp.4, p.3, tx.tây ninh, tỉnh tây ninh | KV01 |
| CH03 | Đồng Nai | 260 b, phạm văn thuận, p. thống nhất, tp. biên hòa | KV01 |
| CH04 | Đức Hòa | 209 tỉnh lộ 825 , xã Đức hòa hạ , huyện Đức hòa , tỉnh long an | KV01 |
| CH05 | Trảng Bom- Đồng Nai | số 433, quốc lộ 1a, tỉnh Đồng nai | KV01 |

Bảng khách hàng

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| KH01 | Nguyễn Hà Phúc Tâm | Hồ Chí Minh | 0123487642 | Nam | 1990-12-12 | NULL | TK12 |
| KH02 | Nguyễn Lương Quyền | Bình Định | 0123482342 | Nam | 1999-03-12 | NULL | TK13 |
| KH03 | Nguyễn Hoài Vĩ | Bình Định | 0312487642 | Nam | 1999-02-02 | NULL | TK14 |
| KH04 | Trần Thi | Huế | 0323487642 | Nữ | 2000-06-07 | NULL | TK15 |
| KH05 | Trần Thị Ái | Hồ Chí Minh | 0837465734 | Nữ | 1991-06-12 | NULL | TK16 |

Bảng tài khoản

|  |  |  |  |
| --- | --- | --- | --- |
| TK01 | admin01 | admin123 | MAL01 |
| TK02 | nhanvien01 | nhanvien123 | MAL02 |
| TK03 | nhanvien02 | nhanvien123 | MAL02 |
| TK04 | nhanvien03 | nhanvien123 | MAL02 |
| TK05 | nhanvien04 | nhanvien123 | MAL02 |

Bảng loại tài khoản

|  |  |
| --- | --- |
| MAL01 | Tài khoản admin |
| MAL02 | Tài khoản nhân viên |
| MAL03 | Tài khoản khách hàng |

Bảng nhân viên

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| NV01 | Nguyễn Văn Khai | HCM | TK02 | 231054856 | 1998-05-12 | 09832457621 | 7000000 | Nam | NULL |
| NV02 | Nguyễn Văn Điệp | HCM | TK03 | 232563426 | 1997-04-21 | 01232324121 | 8000000 | Nam | NULL |
| NV03 | Nguyễn Văn Tuấn | HCM | TK04 | 231054856 | 1988-05-23 | 09834117621 | 7000000 | Nam | NULL |
| NV04 | Nguyễn Văn Đạt | HCM | TK05 | 231765456 | 1994-06-13 | 0983212321 | 7000000 | Nam | NULL |
| NV05 | Nguyễn Văn Huy | HCM | TK06 | 231054856 | 1998-05-17 | 09435457621 | 7000000 | Nam | NULL |