ĐẠI HỌC QUỐC GIA TPHCM – TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIÊN

KHOA CÔNG NGHỆ THÔNG TIN – BỘ MÔN HỆ THỐNG THÔNG TIN

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**PHÁT TRIỂN ỨNG DỤNG**

**HỆ THỐNG THÔNG TIN HIỆN ĐẠI**

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**Nhóm**: R03

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18120214 – Lê Ngọc Bảo Ngân

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18120401 – Mai Khánh Huyền

18120418 – Phạm Minh Khoa

18120456 – Lại Bùi Thành Luân

*Thành phố Hồ Chí Minh, tháng 10 năm 2021*

**THÔNG TIN CHI TIẾT NHÓM**

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**PHÂN CÔNG & ĐÁNH GIÁ HOÀN THÀNH CÔNG VIỆC**

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| --- | --- | --- |
| **Người** **thực hiện** | **Công việc thực hiện** | **Mức độ hoàn thành** |
| 18120196  Nguyễn Đình Lộc | Chương 2: mục 1.3 | 100% |
| 18120214  Lê Ngọc Bảo Ngân | Chương 2: mục 2 | 100% |
| 18120387  Trần Hữu Hoàng | Chương 1  Chương 2: mục 1.1, 1.2, 2, 3 | 100% |
| 18120396  Ngô Quang Huy | Chương 2: mục 1.4, 2 | 100% |
| 18120401  Mai Khánh Huyền | Chương 2: mục 1.4, 2 | 100% |
| 18120418  Phạm Minh Khoa | Chương 2: mục 1.3 | 100% |
| 18120456  Lại Bùi Thành Luân | Chương 2: mục 2 | 100% |

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# Chương 1: Tổng quan hệ thống

## Giới thiệu chung

Trong bối cảnh dịnh Covid - 19 kéo dài, Nhiều khu vực trong thành phố bị phong tỏa do tình hình diễn biến phức tạp của dịch bệnh. Việc đi chợ trở nên cực kì khó khăn.

Hệ thống dịch vụ đi chợ thuê ra đời giúp người dân có thể đặt mua những món hàng nhu yếu phẩm thiết yếu trên hệ thống và sẽ được các shipper giao hàng tới tận nhà của người. Bao gồm các tiện ích như: đặt hàng, lên đơn đi chợ thuê, thanh toán online, …

## Mục tiêu

Hỗ trợ người dân tối đa trong việc mua những vật phẩm cần thiết, Tiến tới xây dựng hệ thống đảm bảo an toàn, tiện lợi, chất lượng và hiệu quả.

## Giá trị mang lại

### An toàn

* Người dân không phải ra ngoài đi chợ, không lo sợ việc có nguy cơ bị nhiễm bệnh.
* Đối tác shipper là các đối tác uy tín, các nhân viên giao hàng được tiêm vacxin và kiểm tra thường xuyên.

### Tiện Lợi

* + Mua hàng ngay trên điện thoại.
  + Thanh toán trực tuyến dễ dàng.

### Chất Lượng

* Các mặt hàng trên hệ thống có nguồn gốc xác định, chất lượng được đảm bảo.

### Hiệu quả

* Đặt hàng nhanh chóng, nhận hàng liền tay.

# Chương 2: Yêu cầu khách hàng

## Quy trình nghiệp vụ

### Hỗ trợ khách hàng và giải quyết tranh chấp:

**Nhân viên**: Công ty sẽ lưu trữ thông tin của nhân viên để sử dụng trong trường hợp cần thiết. Thông tin của nhân viên bao gồm:

* **Họ tên:** họ và tên chủ tài khoản.
* **Hình ảnh:** ảnh chụp khuôn mặt chủ tài khoản.
* **Số CMND/ Căn cước công dân:** Số CMND/ Căn cước công dân của chủ tài khoản. Kèm hình ảnh chụp 2 mặt.
* **Ngày sinh:** Ngày tháng năm sinh của chủ tài khoản.
* **Số điện thoại:** Số điện thoại chủ tài khoản sử dụng để đặt và nhận hàng.
* **Địa chỉ:** Địa chỉ giao hàng.
* **Email:** Email cá nhân của chủ tài khoản.

Nhân viên trên hệ thống bao gồm:

* **Nhân viên hỗ trợ khách hàng:** Hỗ trợ khách hàng và đối tác nếu gặp các vấn đề về quy trình và kĩ thuật khi sử dụng hệ thống.
* **Nhân viên giải quyết tranh chấp:** Hỗ trợ giải quyết tranh chấp khi khách hàng và đối tác xảy tra tranh chấp.

#### Hỗ trợ khách hàng:

* Khách hàng hoặc đối tác khi gặp vấn đề về kĩ thuật có thể liên hệ nhân viên hỗ trợ khách hàng trên hệ thống để giải quyết.
* Cách để nhận được hỗ trợ:
  + - **Qua hotline của hệ thống**: Khi khách hàng hoặc đối tác gọi đến hotline của hệ thống, hệ thống sẽ kết nối khách hàng đến nhân viên hỗ trợ khách hàng trong thời gian nhanh nhất(1-2p). Cước phí sẽ tính vào tài khoản điện thoại khách hàng với mức phí hợp lí.
    - **Email hỗ trợ khách hàng**: Khách hàng hoặc đối tác mail tới Email hỗ trợ khách hàng, Nhân viên của hệ thống sẽ check mail và phản hồi hỗ trợ khách hàng trong thời gian nhanh nhất. Thời gian phản hồi có thể kéo dài từ 1-8h.

#### Giải quyết tranh chấp:

* Khách hàng và đối tác có những tranh chấp đối với những vấn đề liên quan: Chất lượng sản phẩm, bom hàng,…..
* Nhân viên giải quyết tranh chấp sẽ tiến hành xác minh theo các chứng cứ được lưu lại trên hệ thống và do khách hàng hoặc đối tác cung cấp để tiến hành xác minh.
* Sau khi xác minh nhân viên giải quyết tranh chấp sẽ thực hiện giải quyết tranh chấp cho khách hàng và đối tác(cảnh cáo, bồi thường,…) theo quy định của hệ thống.

### Quản lý khách hàng

#### Đăng ký:

Công ty sẽ lưu trữ thông tin của khách hàng trên hệ thống để truy xuất cho trường hợp cần thiết. Thông tin của khách hàng bao gồm:

* **Họ tên:** họ và tên chủ tài khoản.
* **Hình ảnh:** ảnh chụp khuôn mặt chủ tài khoản.
* **Số CMND/ Căn cước công dân:** Số CMND/ Căn cước công dân của chủ tài khoản. Kèm hình ảnh chụp 2 mặt.
* **Ngày sinh:** Ngày tháng năm sinh của chủ tài khoản.
* **Số điện thoại:** Số điện thoại chủ tài khoản sử dụng để đặt và nhận hàng.
* **Địa chỉ:** Địa chỉ giao hàng.
* **Email:** Email cá nhân của chủ tài khoản.
* **Tài khoản liên kết:** Số tài khoản của khách hàng dùng để thanh toán trên hệ thống.

Công ty sẽ quản lý khách hàng theo tình trạng khu vực của khách hàng, phân thành các nhóm đối tượng:

* **Vùng xanh**: Là các vùng an toàn, không có dịch.
* **Vùng vàng**: Là vùng nguy cơ, vùng có khả năng lây nhiễm Covid-19 lớn. Gồm các nhà máy, cơ sở sản xuất, cơ quan, đơn vị, chợ, siêu thị, bệnh viện, cơ sở khám chữa bệnh,…
* **Vùng da cam**: Là vùng nguy cơ cao.
* **Vùng đỏ**: Là khu vực phong tỏa hoặc khu cách ly.

#### Khách hàng đánh giá

* Khách hàng đánh giá đối tác bán. Khách hàng chỉ có thể đánh giá đối tác bán khi đã mua món hàng của đối tác bán.
* Khách hàng đánh giá shiper. Khách hàng chỉ đánh giá shiper khi shiper có giao hàng cho mình.

#### Cảnh cáo, khóa tài khoản:

Khách hàng khi sử dụng dịch vụ trên hệ thống nếu vi phạm các quy định chuẩn mực của hệ thống sẽ được lưu lại và tiến hành xử phạt.

Các hình thức vi phạm là:

* + Có các bình luận đánh giá mang tính chất lăng mạ, phân biệt chủng tộc, …
  + Khi hàng được giao tới cố tình không nhận hàng.
  + Các hình thức trục lợi, sai tiêu chuẩn quy định của hệ thống.

Tùy vào mức độ của vi phạm để tiến hành xử phạt:

* + Mức 1 (Cảnh cáo): Thông báo cảnh cáo tới khách hàng, ghi nhận lại. Nếu 3 lần bị cảnh cáo thì xử phạt theo mức 2.
  + Mức 2 (Khóa tài khoản): Tình huống vi phạm nghiêm trọng hoặc bị cảnh cáo quá 3 lần. Hệ thống tự động khóa tài khoản của khách hàng và tạm ngưng cung cấp dịch vụ của hệ thống.

### Quản lý đơn hàng

#### Quy định đơn đặt hàng

* Đơn hàng sẽ có những thông tin cơ bản sau: Địa chỉ nhận; Địa chỉ lấy đơn hàng (nơi đối tác bán); danh sách những mặt hàng (Nếu mua ở nhiều đối tác thì tạo mỗi đơn hàng cho mỗi đối tác, sau đó khách hàng sẽ tự check); Số điện thoại khách; Số điện thoại đối tác bán;
* Nằm trong khung giờ quy định (5-17h), thời gian này sẽ được cập nhật tùy theo quy định giờ giấc ra đường của thành phố. Đơn hàng chỉ xử lý trong địa phận thành phố Hồ Chí Minh.
* Đơn hàng sẽ được xử lý và nhận trong vòng 2 ngày. Nếu quá hạn thì sẽ thông báo cho khách hàng đơn hàng bị hủy.
* Chỉ mua những mặt hàng thực phẩm thiết yếu hằng ngày:
  + Thực phẩm tươi sống: thịt (các sản phẩm từ thịt), thủy sản (các sản phẩm từ thủy sản), rau, củ, quả (các sản phẩm từ rau, củ, quả), trái cây, trứng (các sản phẩm từ trứng).
  + Hàng công nghệ phẩm như bánh kẹo, muối, bột nêm, gia vị, nước mắm, đường, dầu thực vật, sữa các loại, mì gói và một số mặt hàng lương thực, thực phẩm khác phục vụ nhu cầu tiêu dùng thiết yếu hằng ngày của người dân, nước uống, nước ngọt đóng chai, lon, thùng.
  + Lương thực: gạo, vừng, đậu, ngô, khoai, sắn; bột, tinh bột (các sản phẩm từ bột, tinh bột).
* Đơn hàng không được vượt quá 50 kg.
* Giá cước đơn hàng: dựa vào số km và kg.

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| **Kg** | **Tiền phí 3 Km đầu** | **Mỗi Km tăng thêm** |
| Dưới 5 kg | 15.000đ | 5000đ |
| Dưới 10 kg | 18.000đ | 6000đ |
| Dưới 20kg | 30.000đ | 7000đ |
| Từ 20 đến dưới 30 kg | 40.000đ | 8000đ |
| Trên 30 kg | 50.000đ | 9000đ |

#### Lập đơn đặt hàng

* Khách hàng sẽ chọn và mua sản phẩm của các cửa hàng đối tác, các món hàng chọn xong sẽ bỏ vào giỏ hàng, sau khi chọn xong, khách hàng vào giỏ hàng để xác nhận hoàn tất đơn đặt hàng.
* Thông tin đơn đặt hàng lưu gồm thông tin khách hàng mua, danh sách các mặt hàng, tổng giá đơn (chưa tính giá ship), ngày lập đơn, thời gian giao hàng khách hàng mong muốn.

#### Theo dõi đơn hàng

* App sẽ tự động theo dõi lộ trình đơn hàng khi shiper bật app sử dụng.
* Các tình trạng của đơn hàng:
* **Chưa có shipper**: ngay sau khi khách hàng chốt đơn hàng đặt mua và chưa có shipper nào nhận đơn hàng.
* **Shiper đang mua hàng:** Sau khi có shipper nhận vận chuyển và khách hàng chấp nhận shipper đó.
* **Shipper đã mua, đang giao**: Khi mua xong đơn hàng, shipper đổi trạng thái trên app để khóa chỉnh sửa đơn hàng
* **Hoàn thành:** khi giao hàng cho khách, shipper và khách hàng đều phải xác nhận đã hoàn thành đơn hàng.

#### Hiệu chỉnh đơn hàng

* Nếu trong quá trình mua (đơn hàng ở trạng thái đang mua hàng) shipper thấy không có mặt hàng trong đơn hàng thì liên hệ với khách hàng để hiệu chỉnh đơn hàng.
* Khách hàng chỉ được chỉnh sửa đơn hàng trước khi shipper chuyển trạng thái đơn hàng thành “Shipper đã mua, đang giao”
* Khách hàng muốn hiệu chỉnh đơn hàng:
  + Nếu chưa shipper nào nhận: sửa bình thường
  + Nếu shipper đang đi mua: khách hàng liên lạc cho shipper để báo, nếu shipper đồng ý thì sẽ bật chỉnh sửa để khách hàng sửa. Sau khi khách hàng chỉnh sửa xong liên hệ yêu cầu shipper xác thực chấp nhận đơn hàng.
* Nếu đơn hàng đã bị hủy thì không hiệu chỉnh được.
* Trong quá trình hiệu chỉnh đơn hàng phải lưu thông tin đơn hàng trước đó. Việc lưu này tránh trường hợp đơn hàng đã mua một số mặt hàng mà khách hàng chỉnh sửa sai thiếu sót có thể dựa vào để xem. Có thể sử dụng cho việc shipper không chấp nhận tinh chỉnh và quay về trại thái đơn hàng trước đó. Hoặc có thể phát hiện được những trường hợp khách hàng với shipper đi riêng mà bên hệ thống sẽ có những kế hoạch.

#### Hủy đơn hàng

* Khách hàng hủy đơn hàng:
  + Shipper liên lạc 3 lần mà khách không nhận hàng thì xác định đơn hàng bị hủy. Shipper sẽ đánh giá khách hàng bằng sao, comment. Những trường hợp này sẽ được ghi nhận lại để xử lý khách hàng sau này (cảnh cáo, khóa tài khoản, xóa tài khoản...).
  + Khách chủ động hủy đơn hàng trước khi shipper nhận đơn hàng thỏa mái.
* Shipper hủy đơn hàng:
  + Khi quán hết hàng thì shipper liên hệ với khách hàng để hủy đơn hàng.
  + Shipper tự ý hủy đơn hàng sẽ được ghi nhận lại xử lý sau này. Khách hàng có thể đánh giá shipper bằng sao hoặc comment. Những trường hợp này sẽ được ghi nhận lại để xử lý khách hàng sau này (cảnh cáo, khóa tài khoản, xóa tài khoản...).

#### Thống kê

* Sau mỗi tháng, quý sẽ thống kê nhu cầu lương thực theo khối lượng, số lượng từng loại hoặc tổng thể.
* Thống kê số lượng shiper trong một ngày tại các vùng xanh, cam đỏ.
* Thống kê số lượng người dân yêu cầu trong cùng xanh xam đỏ trong một ngày.
* Mặt hàng nào được yêu cầu nhiều nhất.

### Quản lý đối tác

#### Quản lý cửa hàng

* **Đăng ký trở thành đối tác cửa hàng**: Để trở thành đối tác của hệ thống, người muốn hợp tác cần đến trụ sở của hệ thống để đăng ký hợp đồng. Khi đến trụ sở, người muốn hợp tác sẽ gặp nhân viên của bên hệ thống và được hướng dẫn điền thông tin của mình vào phiếu đăng ký (Họ và tên, Số điện thoại, CMND/CCCD, Email, Khu vực (Hồ Chí Minh, Hà Nội, Đà Nẵng, Cần Thơ, … ), Tên cửa hàng, Ngành kinh doanh/Hình thức kinh doanh, địa chỉ cửa hàng) và các giấy tờ (bản photo CMND/CCCD, các giấy tờ liên quan đến kinh doanh, an toàn vệ sinh thực phẩm). Sau khi điền thông tin và cung cấp giấy tờ xong, người hợp tác phải đợi bên nhân viên của hệ thống làm thủ tục và hợp đồng, phải được giám đốc ký phê duyệt. Khoảng thời gian mà người hợp tác phải đợi khoảng 2 - 3 ngày. Sau đó,nhân viên sẽ liên hệ với người hợp tác qua số điện thoại và hẹn ngày để đăng ký hợp đồng chính thức.
* **Đăng ký mặt hàng bán**: Chủ cửa hàng sẽ đăng ký mặt hàng bán ngay sau khi ký hợp đồng mới nhân viên. Nhân viên sẽ hướng dẫn và yêu cầu chủ cửa hàng đăng ký những mặt hàng họ muốn bán vào phiếu (danh mục, tên mặt hàng, giá tiền, khung giờ bán, mô tả, số lượng, khối lượng). Hoặc trong quá trình bán hàng, chủ cửa hàng muốn bán thêm mặt hàng khác thì phải đến trụ sở và đăng ký thêm những mặt hàng mới đó. Nhân viên bên hệ thống sẽ lưu tất cả thông tin đó lại và thông báo đến người mua hàng để họ biết và mua.
* **Quản lý danh sách đơn hàng:** Để kiểm tra các đơn hàng của cửa hàng. Chủ cửa hàng sẽ phải tự thống kê lại toàn bộ đơn hàng mà cửa hàng đã bán cũng như những đơn hàng bị hủy. Đối với các đơn hàng ở trạng thái “hoàn thành”, tức là đơn hàng đã được chuẩn bị và đóng gói xong. Chủ cửa hàng đã liên hệ với shipper đến lấy hàng. Shipper đến lấy hàng và giao cho khách hàng. Nhưng trường hợp đợi shipper quá lâu, chủ cửa hàng sẽ liên hệ với bên hệ thống, thì lúc này nhân viên bên hệ thống sẽ xử lý cho cửa hàng bằng các cách như liên hệ với shipper (xác nhận sẽ nhận đơn hàng), không liên lạc được với shipper thì nhân viên sẽ liên hệ về chủ cửa hàng và hủy đơn hàng đó, đồng thời bồi thường thiệt hại cho chủ cửa hàng cũng như xử lý bên phía shipper nhận đơn hàng đó ngay lúc đầu. Đối với tình trạng đơn hàng “Đã hủy”, chủ cửa hàng sẽ được nhân viên báo lý do vì sao đơn hàng bị hủy. Các lý do hủy đơn hàng đã quy định(Khách hủy đơn hàng, Khách không nghe điện thoại), hoàn trả đơn hàng đã giao, nếu chưa giao thì coi như không có. Với trường hợp, khách hàng không hài lòng đơn hàng như đơn hàng sai so với đơn hàng khách đặt, chất lượng đơn không đúng. Chủ cửa hàng sẽ liên hệ với khách hàng để thỏa thuận về đơn hàng (đổi lại mặt hàng mà khách hàng yêu cầu). Shipper sẽ hoàn trả hàng cho chủ cửa hàng và sẽ giao hàng mới lại cho khách. Nếu khách hàng không chịu nhận hàng thì hoàn tiền và xin lỗi khách hàng. Các trường hợp khác như shipper làm hỏng đơn hàng, mất đơn hàng thì nhân viên bên hệ thống sẽ xử lý và bồi thường cho chủ cửa hàng.
* **Quản lý đơn hàng mới:** Khi khách hàng yêu cầu mua mặt hàng mà cửa hàng đang bán. Thì shipper gọi cho chủ cửa hàng biết ngay và nói rõ chi tiết đơn hàng khách đặt. Chủ cửa hàng nắm bắt được các thông tin cần thiết và nhanh chóng chuẩn bị và đóng gói sản phẩm và liên hệ với shipper để giao hàng một cách nhanh chóng.
* **Quản lý doanh thu:** Để quản lý được doanh thu của cửa hàng. Chủ cửa hàng sẽ thống kê tiền đơn hàng sau mỗi ngày và xác định doanh thu của mình. Việc quản lý doanh thu để chủ cửa hàng có thể định giá được sản phẩm của mình, lên danh sách mua nguyên vật liệu hoặc vật phẩm để nhập về nhằm phục vụ cho việc kinh doanh tránh trường hợp làm chậm đơn hàng cho khách hàng làm giảm uy tín.

#### Quản lý shipper

* **Đăng ký trở thành shipper**:
* Đầu tiên để đăng ký để thành trở shipper là cung cấp thông tin, việc này sẽ thực hiện trên form của ứng dụng và cung cấp các thông tin như sau: Nơi hoạt động (VD: Quận 7, Hồ Chí Minh), Họ tên, Số điện thoại, ngày sinh, chứng minh nhân dân. Người dùng cần đảm bảo cung cấp những thông tin này chính xác.
* Sau đó, phải đợi người bên phía ứng dụng xác nhận về việc đăng ký.
* Về việc đăng ký để trở thành shipper là hoàn toàn miễn phí nhưng vì là shipper của bên ứng dụng nên cần phải có đồng phục để nhận biết cũng như quảng bá cho ứng dụng, giá đồng phục là 500000 vnđ, bao gồm áo khoác và áo phông.
* Điều cần chú ý thu nhập của shipper sẽ nhận được số tiền là 85% phí ship.
* **Nhận đơn hàng của khách qua ứng dụng**: Shipper sẽ bật nút nhận đơn hàng và tự chọn đơn hàng phù hợp để thực hiện giao hàng và phải phải xác nhận đơn hàng nhanh (20s).
* Nếu nhận đơn nhưng sau đó hủy hoặc trả đơn 2 lần sẽ bị tạm khóa chức năng trong 30 phút.
* Trong mỗi đơn hàng sẽ có thông tin chi tiết về đơn hàng như tên hàng cần mua, số lượng. Shipper cần đọc kỹ, tránh mua thiếu/sai món và cần phải đảm bảo giao nhanh chóng cho khách hàng.
* **Gọi điện đến để xác nhận với khách hàng**: Gọi điện thoại xác nhận khách (tối thiểu 3 cuộc). Shipper chỉ làm việc với số điện thoại chính của khách tránh liên lạc và giao dịch với số khác (người bên ứng dụng sẽ không hỗ trợ về việc boom hàng của khách hàng). Cần xác nhận rõ với khách hàng về chi tiết món hàng, số lượng cũng như địa chỉ nhận hàng.

Note: Trường hợp khách hàng thanh toán online trả trước thì không cần gọi xác nhận.

* **Đi mua hàng**:
* Lý do hủy đơn: (Phía bên ứng dụng sẽ kiểm tra và xử lý bồi thường nếu shipper báo cáo không đúng lý do, không đúng sự thật)
* Khách hủy đơn hàng (Khách chủ động kêu hủy đơn)
* Khách không nghe điện thoại (Gọi tối thiểu 3 cuộc rồi mới hủy đơn)
* Đối tác hết mặt hàng.
* Xe hư thì app sẽ tự động khóa 30 phút để đi sửa xe
* Lý do khác thì 5 lần / 1 ngày (trên 5 lần ứng dụng sẽ khóa lại 6 tiếng)

Note: Trường hợp shipper đồng ý thỏa hiệp với khách hàng đi những đơn hàng không trung thực, bên ứng dụng sẽ không trả bất kỳ khoản phí nào. Đặc biệt, trong trường hợp nghiêm trọng thì bên ứng dụng sẽ nhờ cơ quan có thẩm quyền vào cuộc.

* Khi đến quán cần chụp ảnh quán lại, đến quán thì đọc rõ món cho chủ quán bán. Đối tác cũng cần kiểm tra thông tin về shipper. Cần chú ý mua đúng số lượng, khối lượng của đơn hàng. Trường hợp mua hàng, món hàng lên giá thì nếu có hóa đơn thì shipper cần chụp lại hóa đơn, còn không có thì chụp lại địa chỉ quán cho ứng  dụng.
* Sau khi shipper nhận hàng, cần kiểm tra kĩ lại đơn hàng xem đã đủ chưa sau đó cần nhanh chóng giao cho khách hàng.
* Xóa đơn hàng: Trước khi shipper xóa đơn hàng thì yêu cầu gọi xác nhận lại cho khách hàng, ví dụ như đối tác hết 1 món trong 3 món mà khách yêu cầu thì mình gọi cho khách đổi món hoặc hủy món đó.
* **Giao hàng và hoàn thành đơn hàng khi giao tận tay**:
* Sau khi đến đúng cần giao, shipper gọi điện cho khách hàng để nhận hàng. Nếu khách không nghe máy thì cần chụp hình lịch sử cuộc gọi đã gọi 3 cuộc không thành công và hủy đơn hàng, đưa số điện thoại này vào danh sách số điện thoại bom hàng. Nếu quá 5 lần thì sẽ khóa tài khoản của số điện thoại này.
* Shipper giao hàng cho khách và chỉ được thu đúng số tiền hiển thị trên hệ thống.
* Khách hàng cần kiểm tra kĩ đơn hàng. Sau đó khách hàng ký đơn xác nhận đơn hàng.
* Trong trường hợp khách hàng không muốn nhận hàng khi kiểm tra (hàng không giống như mô tả) shipper cần chụp ảnh các món hàng, giao trả lại hàng cho đối tác.

Đối tác sau khi nhận hàng, kiểm tra lại hàng và gọi điện cho khách hàng. Nếu cửa hàng giao sai sản phẩm, và khách hàng vẫn muốn nhận hàng, cửa hàng sẽ thanh toán chi phí vẫn chuyển. Trường hợp khách hàng không muốn nhận hàng nhưng đã thanh toán online thì cửa hàng sẽ chuyển tiền lại cho khách.

## Mô tả:

#### Hỗ trợ khách hàng và giải quyết tranh chấp:

* + Đặc tả bằng UC:

Diagram

Description automatically generated

* **Hỗ trợ khách hàng qua hotline**:
* Đặc tả bằng sơ đồ hoạt động:

![Diagram

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4SHqRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjEwOjAyIDE1OjM5OjA1AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM2OQAAkpIAAgAAAAM2OQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* + **Hỗ trợ khách hàng qua Email**:
* Đặc tả bằng sơ đồ hoạt động:

![Diagram

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* + **Giải quyết tranh chấp**:
* Đặc tả bằng UC:

Diagram

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|  |  |
| --- | --- |
| **Tên Use case** | **Giải quyết tranh chấp** |
| Mô tả | - Use case bắt đầu khi có tranh chấp giữa các người dùng trên hệ thống.  - Use case mô tả quá trình nhân viên giải quyết tranh chấp giữa người dùng của hệ thống |
| Dòng cơ bản | 1. Người dùng gửi báo cáo và cung cấp chứng cứ lên hệ thống 2. Người dùng chờ hệ thống xác nhận thông tin. 3. Hệ thống gửi thông tin đến nhân viên giải quyết tranh chấp. 4. Nhân viên giải quyết tranh chấp thực hiện xác thực dựa trên các chứng cứ. 5. Nhân viên giải quyết tranh chấp xác nhận đúng sai lên hệ thống. 6. Hệ thống gửi thông báo cho các bên liên quan. |
| Dòng thay thế | Không có. |

* Đặc tả bằng sơ đồ hoạt động:

![Diagram

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4SsyRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjEwOjAyIDE2OjA5OjE2AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM3OAAAkpIAAgAAAAM3OAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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#### Khách hàng:

* + **Cảnh cáo, khóa tài khoản**:
* Đặc tả bằng UC:

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6Oa3cOjD2I61IyxRR6UdenNABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRUN9eW2m2c95e3EVpaW6GWaeZwiRoo3MzMeAABkk9MUATV5p8SP2hvB/w11SPQ5p7rX/ABbOu638L+HoDe6nMD0byk/1S8/6yUonX5hXn03xA8YftHSSweAdQm8F/DTOyTxoIf8AiY6yP4v7NR/lihxwLqRWLE5jTGHrv/h58K/C/wAKdHlsPDOlRWInbzbu7YmW6vZT96W4ncmSaQ85ZyT+HFaxpuWrM5VFHY4ua/8Ajl8SlBabRfg/o0nIS3Vda1or/vsBbQN7BZwPU1Av7K3gjU5kuPGD6z8SbtDu8zxlqs2oQ5HdbUkW6jOSAsQAzXsjenb2qNu9dkKcV0OOVST6mPofhbRfCtmtpomkWOjWw4ENhbRwIP8AgKACtBuM8fpUjVG3eumJgyJu9RtUjd6jatUZMztY0XT9fsXs9TsbbUbR/vW95CssZ+obIry+8/Zd+HkN49/4c0qfwFqzHP8AaPgu7k0iXP8AtLAyxv8AR1YHuK9dbvUTVTjGW6JUpLZnl1vJ8bPhq3maX4m074q6TH97TPE0CadqWwDgR3tunlM3/XSDnHLjrXa+Af2mvC/jDxBB4Z1m11HwJ4ynGI/D/iaJYJLogcm1mVmhuR/1ydjgcgVrN1Fc/wCNfAvh/wCImhzaP4l0e01rTZDk293GHAbsyk4KMMkhlIIPQiuaeEhL4dDohipR+LU9o746n/8AX/hRXy3pviDxx+zhIC8urfEv4YL/AKyGZ2utd0RcfeRid17AP7p/foOhkxtr6M8I+LtG8e+GdO8Q+HtSt9X0XUYRPa3tq+6ORD3HoQQQQeQQQcEYry6lOVN2kj0oVI1FeLNiiiiszQKKKKACiiigAooooAbmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAH6181amz/ALWHiy4t5c/8KY8P3zwvFxt8VX8LkNuxw1lBIpG3pNIpP3U+bsf2mvFGpxeHdC8C+Hb6TTvE3jnUV0aG8g/1tlZhTJfXSejR26uFbtJJH612XhXwvpfgnw1pfh/RbSOw0jS7dLO0tox8scaLhV/Idf65ralHmd2ZVJW0RpxxJBGscaLHGgCqigABR0Ax2pW6UtI1dhyDGqNu9SNUbd60iQyNqjbvUjevaoz3+uK0RmyJu9RtUjd6jbtWqMmRt3qJqlaom6VoZkTUw96e1MPetEQyJj/n8K8b1Rrj9mHxRdeOdBWY/DrUbjzvF/h63QulkzcNqtqg+6ykAzovDpucDcmT7I1Q3EaTRvHIiyRuNrIwBDA8EHPHSipTjVjysKdSVKXMj0uwv7bVLG2vbO4iurO4jWWCeBw8cqMAysrA4YEHII65qxmvnj9mHUn+H/iPxR8HbpmNrooGseGnJPzaRcSN/o4x/wA+04kjAP8AA0NfQ1fNSi4ScX0PoYyU4qSFzRmkoqShc0ZpKKAFzRSUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFHPbr2oo9vWgDwbjxR+1/rE5w9t4Q8IWtpBv5CXGoXUsku0f8AXKygBPXDY716jq17Npul3V1bWNzqc8ETPHZWjRrNOQMhEMjom49BudV9SK8v8Jf6H+1Z8W7ab93Ne6LoF9Ap/wCWkX+nRFh/wONgfTivW/T0Irsgv3dkck37583a1+2clj4T8R67b/DTxJBbeH9ah0K/k1i80+3giumuYIXi3Q3M7koJw+RGUO0jeK9E8YfHrw1pfwvvvGfhrW/DfijT4LhLNbz/AISO0tdPWZnRMTXbMY4wu5SwXc+AAqMxCnyzxN+y54l174XfEzwwbzRXuPFHjpfE1v50spgFoLq2lMcv7onzNkDjaAVOR83UiLXP2ZfGUPxO1bxtpFzoV40fjaPxRp+i315NBbzx/wBmLZuJpFgk8qVW3SKyxyA4AOC3Ex5nFc2jdvl8F9PK8v8AwHqN8qba1s3p3tzW++0fvPXtO+O/gz/hBtC8S+IPEmgeFbfVrMXqJf67ZtEF3Ij7J0lMcqq7ou9GIJdehbFXPEXxq+HnhOXT49c8eeGdGk1GBbqyXUNYt4DcwscLJEHcb1PZlyDXhfgn9knxB4f8TeEtZv7rQ5mtB4mu7+zheQxW1xqroyRWu6MboowHUs2xjnO35io8QT4Y+OvhT4s8MeG9V8K694sstL0nwvZXFt4e+1LZarNZXEsiOLj+zpk2QySBiJbmy+78wZSGreEm3FSVrtfK/NdedrLXrf5mUopJ8rvZPyvZqz8rp3t5H198TP2gdC+FPxI8IeG/EU+naPpOvWd9dPr2qalHaQWhg8kKh3gKxczAD51xt754n8bfG7Q/DuveEtE0/UvD2o6r4kuYBFbXfiG1tHFlIG/0qNGJkuAdu1EiVt7MOVALLzfxu+Evizxd8TPBfjPwxbeHr+TQNM1SzbTvENzLCsr3awxqQ8cMu0KquSdpJ4X+MsniF5+xb8SrfSPCnh2HxVYav4f0WDQhEtxrF7ZRWslncma6xZRRtDc+aCoSSZtybFAAxkVTcvdUl9pX9Lyv+CX36akSUeVtPXlf36f5v7tdD6zt/iX4QvvGFz4Ut/FWiXHiqAFptDi1GFr2MbQ2WgDb1GGB5HQg96frXjrw3oGu6ZomqeIdL03WdTJ+w6bd3kUVxd46+VGzBn6/wg9a8C8Lfsz+LdL8VeGLTULnQ28N+HfF2o+LItbguZn1W+e5MxWCSFoQkYHnkO4mfcIl+UZOOk8VfB3xg3xf8U+JtCfw7e6d4o0zT7GWbW97z6PJaPIySwQeU8c+WkDhWeLa6q3zYIq1Ofs4vl16r/t2/wAtfd17X2ZEox55JPT/AO2t/wCk+9+G5u+A/jZo3iO88Y3d1418G6h4d07UILaxvtL1KAlElChUuGFxKNxlYohPllypxGOC1Hxz+0z4R8M6f4P1bS9X0XxF4e13XP7GuNbs9Yh+yWGIJZnlaVdyHaI+VJXhskjFeC2f7GPxI1LR/EKeINV0e91LVdO0GymnvNf1DVTcSWN559xK8lzDujWVc7YkBRScDA+avQNS/Zj8RX3xQm8Q/atGbSW8f2vi1bZ5Jd/2eLThbuNvl7fNMoDgZwQAd2eK1jz+6n3X3KUU3843fRq3ciSh7zXn/wCktr7pWXY9/wBK8UaNr+gx67pmr2OpaJLG0yalaXKS2zxrkFxIpKlRggnPGDXnfjj9ozwdoPg231rQ/E3hTX5dQuPsunRyeJ7Oztrpw6JLi4ZyMRiQM4QO4GAEYkA8nbfs4a5L+zf48+G1xq9nZX+v32rXFrdWpd4YY7m6kmiRgVUjhgrhRgZbG4deK+Mn7PPxZ+LOi3FqG8L6Db32jXWmXGjaTr9/Z2q3LLAkN3K8NupvcJE6eTMioilRl8EmnUnZNR6J/OzbV/Kyjtu76JNqYwhzWk9LtfJWSfz1forbtH0df/Ejwnpfiez8NX3ijRbPxJeKGttHn1GJLucMTgxwlt7AlWwQOdprfbnvgHvXy5qX7Lvi+8udb0YXOhSeH9e13SddutakuZhqNmbRIAYIYfJKOCbfCSNKm0SH5DjB+omH49B0/Su2Ddnfv+i/W687X6nFKySt2/r/AD8jy/xxcHwn8fPgz4oibymvNRvPC95gffgurSSdQfXE1lFj03N619Q/SvlL47ZuvE3wdsIuZ7jxrbyJjqFhs7yZj+UeP+BV9W8nntXh43+Mz28H/BQUUUVwnYFFFFABRRRQAm6jdSUVQC7qN1JRQAu6jdSUUALuo3UlFAC7qN1JRQAu6jdSUUALuo3UlFAC7qN1JRQAu6jdSUUALuo3UlFAC7qN1JRQAu6jdSUUALuo3UlFAC7qN1JRQAu6jdSUUALuo3UlFAC7qN1JRQAu6jdSUUALuo3UlFAC7qN1JRQAu6jdSUUALuo3UlFAC7qN1JRQAu6jdSUUALuo3UlFAC7qN1JRQAu6jdSUUALuo3UlFAC7qN1JRQAu6jdSUUALuo3UlFAC7qN1JRQAu6jdSUUALuo3UlFAHg/xcB8AfH/4d+OH/wCQTrkEvgrU5D0iklcT2Dn2M0csPP8AFcpXrvPeud8aaP4P+PXg3xP4MfWbTUYiq292dLvEkuNOuARJDJ8pJjlR1SRN2OUBwa5D4HfETUtes7/wf4xMdv8AEfwwVttYhVdi3sZJEOoQj+KGcDcCPutvQ4KYropS6HPVj1PUaRulLSN0roOcY1Rt3qRqjbvWkTNkbVG3epGqNu9aIhkTd6japG71G1aoyZG3eomqVu9RNWhmRNTD3p7VXuLiG1gkmnlSGCNS8ksjAKigZJJPQe/brWiIBux7VwXxK+MGifDeS0sJkudZ8S6gD/Z/hzSYxNfXmDglUyAkYP3pXKouOWHQ8hd/FjxL8YriTTvhOsVvoqsY7rx/qUJksgQcMthEcG7fOf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| **Tên Usecase** | **Cảnh cảo, khóa tài khoản.** |
| Mô tả | - Use case bắt đầu khi hệ thống phát hiện sai phạm của người dùng.  - Use case mô tả quá trình hệ thống xử lí sai phạm của người dùng. |
| Dòng cơ bản | 1. Sai phạm của người dùng được gửi lên hệ thống. 2. Hệ thống tiến hành xác thực thông tin. 3. Tiến hành xử lí sai phạm. |
| Dòng thay thế | A2. Tại bước 2, nếu báo cáo sai phạm không đúng sự thật, kết thúc use case. |

* Đặc tả bằng sơ đồ hoạt động:

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4SWqRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjEwOjAzIDE4OjU0OjQ0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM5NgAAkpIAAgAAAAM5NgAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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g5z3Pyk9qlwTkpPoBs0VQBRQAUUAJRQAUUAFFABRQAUUAFFABRQBRdm1B2hjJW1UlZXHBkI6qp9OuT+A74uqqooVVCqBgADAAoAWigAooAKKACigAqrexOUW4gXM8B3IM/eH8S/iP1APagCeGZJ4UmibcjgMpxjin0AFFABRQAUUAFFABRQAUUAFFABRQA1nVFLMQFUZJPYVnJcnV1C2/mR2pH72QjazeqDuD2Y9ug5ztANFESNFSNQiKMKqjAA9BTqACigAooAKKAKWox38iQfYJkidZQ0m/oyYOR0PfHTH1FVzHrbi5zNapuTEHl5yrHHJJBBA5HTn+QA8x6suoF0mtTaFlyrhtwHOcY4z0qHb4gYcy6cnzITtDngAbhz6kH8D600BWn1G+s9ctrEmxiiuZG8pSj5fks3PTdtyceuexroMikAZFGaAFooASigAooAKKACigAqtczSrLFBAF82TJ3OMqqjGTjIz1Ax7+1KUrK40Vzp12xLf21fLnskcGB9Mxk/rVGSSOK4kgfxRcrNH99CLfI4B/559cEHHuK5/bT6FcqK9/DBeQyadL4qvQbhQhWI24cqxI4xHkZ2sM+xqOwTT7Wz22PiWVIUAJCfZ8/dyP+WeTx/KodefYfKjSjtbmaMSRa/euh6Mq25HHH/POnk3mnwvM15JeRp8zrMiBto67SgUZ+oOenHWpWKlfVByI1QQQCDkGlruMwooAKKACigDLsra21O0hv7mNbj7QgljEyhgiNyoA6DgjJ6mqWpPZafKFXw29yCdoa3tVYZwDzxwOTz7VxuTctzSxR/tTR5XKJ4auHlidPMjNiu+MPvw23rj5fyYfSnC+sTpkd3/wi10HfrCbEb1+7njGe/HHOD0rNuXcqyBr2wVJ2bwvdgxMFVRYAl8qTkYHQEFT15x61pWlppt7aib+yUhDEjZPbKjcHHIx361nJyXUFZos2Ze2vmtMk27R+ZDuYkqQcMvPblSPqe2K0q9CjJygmzOSsxKK1JCigAooAKKACq7f8hKH/AK4yfzSs6vwMa3LNZ1xoemXUzTT2MMkjsHZmXksAAD9cADPsK47tbGhGNA0lDEVsIV8nHl4X7uGLD8mJP1NQ/wDCNaKF2jTbcAgAgLjgcgfnWbbGXra1gs4BBbRJFEvIRBgDNNvf+PK4/wCubfyrJ7lE9l/x4wf9c1/lU9ewc4UUwCigAooAoaIoh0i2tNwaS0jW3kx2ZQB+vBHsQav1wSWpohKZWTKEpprNjKUEgn1tggyttCVds8bmIO36gKD/AMCFalelh1amjKW4UVsQFFABRQAUUAFVblJlljuYV8xo1ZWi4BdTjoTxnKjrx1+oma5o2GnqR/2tAB88V2jd1NrIcfiFI/I0f2tbf3Lv/wABJf8A4muR0p9jTmQ06rbf3Lv/AMBJf/iab/alv/cu/wDwEl/+JqHRn2HzIjk1qziKCQXS7ztXNpLgn0ztqO4uZb6J7a0tp/3i7WlljKKgPB4bBJx04x71Kw829UHOjYjTy4lT+6MU6vSMQooAKKACigDO1CKzaRS8Uj3TDCC3cpIwH+0pBC8jqcc1Bb6GN5mubq93MMCFL6bYn47ssfc+nAHOZcYvdDuyz/Y9t/z1vf8AwOm/+LpP7Htf+el7/wCBs3/xdL2cOwXYf2Na/wDPS9/8DZv/AIqj+xrQ9WuyO4a8mIP4bqXs4dg5mW4LeG1iEUESRxjoqDAFS1YhKKYwooAKKACigAooAKKACigBskaSxtHIiujDDKwyCKpAT6f3kuLX3y0kf9XH6j37AFyKWOeFJYZFkjcBldDkMD3Bp9ABRQAUUAFUWupbtjHZABAcNcsMqOuQo/iP6e5xigCe2tY7VW27mduXkc5Zz6k/06DtU9ABRQAUUAFFACUUAFFABRQAUUAFFABRQAUUAFFAFOS1khkaeyKq7HMkTcJIfX2b3/MHjEttdpchgA0cqY3xOMMn1/xHB7UAT0UAFRT3MVsgaVsbjhVAyWPoAOSaAKwgnvhuvFMUB6WwbJbp98jr/ujj1z2vABQAAABwAKACigAooAKKACigAopiCigAooAKKACigAooAKKACigAqvc2qXG1wzRzJnZKn3l/xHseKAM1vEMFpqMdhfvFFM2Rv3bVb+6cHkZwfx4BPJqvJrF0l39t+b7APlMGz5tn/PT1z3x6DpmsK1ZU7X6g3Yn/AOEjt7jUDY2EkE0p+UOZBt3cE9OuAR09e3WtKC0WKQzSMZbhhgyMOgz0Udh/hzk81sBZopgFFABRQAUUAFFACUUAFFABRQAUUAFFABRQAUUAFFABRQBDdWlvewNBcwpLEw5Vxmuee0vPtS6Zly5GftRXjy/73Yb+2B35xjiubEUfaWE1c37KxtdPtkt7SFIokGAFGPz9TViugYUUwCigAooAKKACigBKKACigAooAKKACigAooAKKACigAooAKrv/wAhGH/rlJ/NKALFFABRQAUUAFFABRQAUUAFFABRQAUUAFFABRQAUUAFFABRQAUUAFZE+oeX4ltbJkO+SNyhxwV+Uk59ipH4r60gNeimAUUAFFABRQAUUAFFACUUAFFABRQAUUAFFABRQAUUAFFABRQAV5vr15ra+K7F7W0E1mJJY7u8M5RrRQ2cBQQAMBTyDuwM9q58TNxjo7CZ3umTT3Ol2s9ymyeSJWkXbtwxHPHb6VbroT0GFFABRQAUUAFFABRQAlFABRQAUUAFFABRQAUUAFFABRQAUUAMmEjwSLE4SQqQjEZ2nHBxXPvoF/PMZp7uB5g6FHMKMQBnPVcjOV7/AMPuaTVxqxs2yXi3EzXEqNEf9Uq/wj346/j7Y4ybVMQUUAFFABRQAUUAFFABRQIKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKACigAooA//ZAP/hMehodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6eG1wPSJodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvIj48eG1wOkNyZWF0b3JUb29sPldpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQ8L3htcDpDcmVhdG9yVG9vbD48eG1wOkNyZWF0ZURhdGU+MjAyMS0xMC0wM1QxODo1NDoxOC45NjI8L3htcDpDcmVhdGVEYXRlPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIC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oMDAsKCwsNDhIQDQ4RDgsLEBYQERMUFRUVDA8XGBYUGBIUFRT/2wBDAQMEBAUEBQkFBQkUDQsNFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBT/wAARCAJnA0ADASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD9TaKTdRuqiRaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBaKTdRuoAWik3UbqAFopN1G6gBKKKKRQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUVRAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUc8fpSM2Fr5xXWvEn7VF5eNoes6h4Q+D8EklquqaVJ5OpeJmRysjQzYLW9pkFQ6Ykl5Ksi4LZVKkaa5pFKLkes+OPjd8PPhncC38XeOvDnhm5K7lt9V1WC3lb6RuwY/hXGf8ADafwG/6K74Q/8G0X/wAVW/4F+CXgH4ZwGPwv4R0fR2c7pLmC1UzzN13yTMDJIx/vOxPvXbcV57x3aJr7M8q/4bT+A3/RXfCH/g2i/wDiqP8AhtT4Df8ARXfCH/g2i/8Aiq9WplL69/d/H/gB7PzPLP8AhtL4Df8ARXPCH/g2i/8AiqP+G0/gP/0Vzwh/4Nov/iq9TplT9f8A7v4/8AfsvM8v/wCG0vgP/wBFc8H/APg2i/8AiqP+G0/gP/0Vzwf/AODaL/4qvUMD0ptT/aP9z8f+AP2PmeY/8Np/Af8A6K54Q/8ABtD/APFUf8Np/Af/AKK74Q/8G0P/AMVXpdI1R/aVvsfj/wAAPY+Z5r/w2l8B/wDorvhD/wAG0P8A8VR/w2p8Bv8AornhD/wbQ/8AxVekU1utT/an9z8f+AP2Pmec/wDDanwG/wCiueEP/BtD/wDFUf8ADaXwH/6K74Q/8G0P/wAVXo1NYe1T/av9z8f+AP2Hmed/8NpfAf8A6K74P/8ABtD/APFUf8NpfAf/AKK54Q/8G0P/AMVXodIw9qn+1/7n4/8AAD2Hmee/8Np/Af8A6K54Q/8ABtD/APFVs+Hf2ovg/wCLrqK10b4o+D9QvJXCR20Wt2/muxPAVN+T+XNdPWF4m8EeHPGlnJa+IdA0vXLWRSjxalaR3CMp7EOMYpf2xrrT/H/gD9h5noq/Ngjn8f8AODS18yXPw18SfAFG1v4RSXN5oUOHvfhzeztLaXMY5Y6e8jZtJ9udqBvJc4BVT8493+HfxA0X4peC9K8T+HrhrnStRi8yIyIUkjYEq8ciHlXR1KMp5VlIPSvYw2Kp4mN4HPODhudJRRRXYZhRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaKAFoqN3299o9cU4Nx0pDPGP2sNSvZPhxp3hDTbiazv/HWtWnhdbqBtjwwTFpLtlP8Ae+yw3O3HO7Fek6Po9j4f0ey0rTbWGy02ygS2trWBdscUSKFRFHYAADHtXmHx4/ffGD9n6FvmibxTfSFD03LoeolT+GePrXrn6V42Ob50jensHWiiivONgplPplABTP8APHb1NPpnXioGeZal8eNOi+IGq+E9J8OeIfE1zovkDW77R7aJ7bSjMAyLL5kqPK2w7ylukrgHoCQDV0v41aVdfFTxdpD+NPBs3h3QdNFzdRw6jAt/p80bstyLj/SH2xoAu5niiCFgMudxTD0b4W+PPhn8VvHet+DR4d1PQfGl7bajcHWry4guNJuUiEMrJFHC4ukKIjhGkg5BXcAcjxPUv2OPip4i1zxJe634h0rVJ7vw/wCI9Fg1C817ULgzG/l3Wp+yPCYrJI0CoyQZU7c8kcUlGyb/AJX9/Lt6c2i76PVaj0bav1ivlfV/dv228z3r4l/tM+FPBnw/1nxL4e1PRvGz6PqNnpt9Z6ZrEJNtJcXKQYlZN/lld7NtYc7D06j0Xwr428PePtLOp+F9f0vxHpwkaE3mk3sd1CJBjKbo2I3DI4+nTNfLvjz9jvxR4mh1e1sbvw/DZX3h3wxpAtpJJVQyabemacsqwkFDGdqcEk8MEHNeueC/gzq2g658aJbq/t7aw8baj9q0+SwZzLaqbCG3ZnUqoD74y3yscgDkGpqRpxhLld2ua3nZxSXbX3mu22pNNyk482l7X+abf3aLzNPxZ+0R4C8O+D9e1y08XeGdWOlO9obYeIbK3Vr0KzJaNNLKscUjbGGHYEbWJzitD/hcnhTR9G8L3HirxV4X8Oahr9tHNaW0uuwNFcsyqSLaVtn2hQXUB0UBtynAyBXz4v7N3xbh+HHgTwvazeFtPt/DFvHpN0NF1/UNMl1y1jtZoo3nvLe3WaELJIkv2ZdyMxkzJyMY2l/sb/EHw74BuPDVpdeFdVOu+BrPwZqdzqF3cINLMLy7p7VRbt56kT7vLYw4dAd2DkJ06S5kpX106XVn913be9r23THdtRvppr1tql87K703t5q32qPpj60jVQ8O6Ovh7w/pmlJNJcLY2sVqJpfvvsQLub3OMn3q+1cE0lJqLujSDbinJWY2kalpGrBliUyn0yoe40Ifbr16Z/SvHPhrcj4W/tMeLPCURMXh7xhp6eK7S3GdkF6sot78rnoHMlnIQP4pJG6kmvY27fXNeH/Ej9x+1H8Knj+R38OeIkYjjIE2lED6Zr0ssk44lJdb/lcyrK8D6b9O1LUVvJ5tvE56sgJ/KpM19seaNooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoormPiN8R9A+FPhW68Q+JL37Dp8LLGm1DJLPM5xHDDGoLSyO2FVFBYk0hnT0V4JFqXxs+LGbqzbT/g34clObeO+s01TX5U6hnXf9mtiR/CROw7kHIFj/hRPi+4w938e/iK87ck28eiwJn2QaecfTNcssVSi7XL9nI9zorw3/hQfiX/ovPxMP/A9H/8AldSN8A/Ev/RefiZ/33o//wAran65SH7OR7nRXhf/AAoTxL/0Xn4mf996P/8AK2kb4C+Jv+i8/Ez/AL70f/5XUvrlIPZyPdaK8J/4UL4m/wCi8/Ez/vvRv/ldSH4D+Jh/zXn4mf8Afejf/K6p+vUQ9nI93orwdvgT4mH/ADXj4mf996N/8rqT/hRPib/ovHxL/wC+9G/+V1L6/R7j9lI95orwT/hRfift8ePiX/31o/8A8rqQ/AvxP/0Xj4lf99aP/wDK+p/tCh3D2Uj3yivAv+FGeJ/+i8fEr/vrR/8A5X0H4G+KB/zXj4lf99aP/wDK6l/aVDuP2Mj32ivAf+FH+J/+i8fEr/vrR/8A5XUf8KP8Uf8ARePiV/31o/8A8rqX9pYfz+4PYzPfqK+f/wDhSPij/ou/xK/760f/AOV9Ifgx4ytf3l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iigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//2Q==)

* + **Thanh toán online**:
* Đặc tả bằng UC:

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| --- | --- |
| **Tên Usecase** | **Thanh Toán online** |
| **Mô tả** | * UC mô tả quá trình thanh toán đơn hàng qua hình thức online * UC bắt đầu khi xác nhận đơn đặt hàng |
| **Dòng cơ bản** | 1. Khách hàng nhấn xác nhận đơn đặt hàng 2. Khách hàng chọn hình thức thanh toán đơn hàng bằng các hình thức online ví dụ: Momo, zalo pay, banking, … 3. Nhập các thông tin cần thiết để tiến hành thanh toán 4. Khách hàng xác nhận thanh toán 5. Hệ thống báo xác nhận thanh toán thành công 6. Kết thúc usecase |
| **Dòng thay thế** | A2. Nếu khách hàng tiến hành thanh toán bằng các app ví điện tử thì ta chuyển hướng thanh toán qua các ví điện tử và chuyển tới bước 5  A4. Nếu thanh toán không thành công thì sẽ chuyển tới bước 3 để nhập lại thông tin |

* Đặc tả bằng sơ đồ hoạt động:

Diagram

Description automatically generated

* + **Thanh toán bằng tiền mặt**:
* Đặc tả bằng UC:

|  |  |
| --- | --- |
| **Tên Usecase** | **Thanh toán bằng tiền mặt** |
| **Mô tả** | * UC mô tả quá trình thanh toán đơn hàng bằng tiền mặt * UC bắt đầu khi khách hàng xác nhận đơn hàng |
| **Dòng cơ bản** | 1. Khách hàng nhấn xác nhận đơn hàng 2. Khách hàng chọn thanh toán bằng tiền mặt 3. Hệ thống sẽ ghi nhận đơn hàng mới 4. Kết thúc usecase |
| **Dòng thay thế** | Không có |

* Đặc tả bằng sơ đồ hoạt động:

Diagram

Description automatically generated

#### Đơn hàng:

* + **Theo dõi đơn hàng:**
* Đặc tả bằng UC:

|  |  |
| --- | --- |
| **Tên Usecase** | **Theo dõi đơn hàng** |
| **Mô tả** | * UC mô tả quá trình Khách hàng xem trạng thái đơn hàng của mình * UC bắt đầu khi Khách hàng đang ở trang thông tin đơn hàng. |
| **Dòng cơ bản** | 1. Khách hàng chọn theo dõi đơn hàng 2. Nhân viên quản lý hàng hóa tìm kiếm và xuất trạng thái đơn hàng cho khách hàng 3. Khách hàng xem trạng thái 4. UC Kết thúc |
| **Dòng thay thế** | Không có. |

* Đặc tả bằng sơ đồ hoạt động

Diagram

Description automatically generated

* + **Lập đơn đặt hàng:**
* Đặc tả bằng UC

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| --- | --- |
| **Tên Usecase** | **Lập đơn đặt hàng** |
| **Mô tả** | * UC mô tả quá trình Khách hàng mua hàng và lập đơn đặt hàng * UC bắt đầu khi Khách hàng chọn tạo đơn hàng mới. |
| **Dòng cơ bản** | 1. Khách hàng chọn các món hàng, bỏ vào giỏ 2. Khách hàng xác nhận mua 3. Khách hàng điền thông tin nơi nhận, thời gian nhận 4. Khách hàng xác nhận chốt đơn 5. Nhân viên quản lý hàng hóa kiểm tra đơn hàng 6. Nhân viên xác nhận lập đơn hàng thành công và thông báo cho khách hàng. 7. UC kết thúc |
| **Dòng thay thế** | * Ở bước 4, khách hàng có thể chọn chỉnh sửa lại thông tin hoặc các món hàng đã mua, quay lại bước 1. * Ở bước 5, nếu đơn hàng không hợp lệ thì nhân viên quản lý hàng hóa gửi thông báo lỗi gặp phải cho khách hàng, kết thúc UC. |

* Sơ đồ Activity:

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* **Hiệu chỉnh đơn hàng:**

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* Đặc tả UC bằng sơ đồ hoạt động

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| Tên Use case | Hiệu chỉnh đơn hàng |
| Mô tả | - UC bắt đầu khi khách hàng muốn chỉnh đơn hàng hoặc Shipper yêu cầu thỏa thuận với khách hàng để chỉnh sửa đơn hàng.  - UC mô tả quá trình hiệu chỉnh đơn hàng đã đặt của khách hàng. |
| Dòng cơ bản | 1. Shiper tiếp nhận yêu cầu chỉnh sửa đơn hàng. 2. Shipper cho phép hiệu chỉnh đơn hàng. 3. Shiper xem kết quả hiệu chỉnh đơn hàng. 4. Shipper chấp nhận kết quả hiệu chỉnh. 5. Kết thúc UC |
| Dòng thay thế | * A1: Ở bước 2 nếu shipper không mở hiệu chỉnh thì kết thúc UC: * Thông báo cho khách hàng. * Kết thúc UC. * A2: Ở bước 4 nếu shipper không chấp nhận kết quả hiệu chỉnh thì:   + thông báo lại cho khách hàng.   + Kết thúc UC. |

* + Đặc tả UC bằng sơ đồ hoạt động:

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* + **Hủy đơn hàng:**

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* + - Đặc tả UC bằng bảng:

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| Tên Use case | Hủy đơn hàng |
| Mô tả | - UC bắt đầu khi khách hàng hoặc shipper hủy đơn hàng.  - UC mô tả quá trình hủy đơn hàng. |
| Dòng cơ bản | 1. Quan lý đơn hàng tiếp nhận đơn hàng bị hủy. 2. Quản lý đơn hàng yêu cầu cung cấp lý do hủy. 3. Quản lý đơn hàng xem xét lý do hủy. 4. Thông báo cho người dùng biết kết quả. |
| Dòng thay thế | * A2: Tại bước 2 nếu người dùng không cung cấp lý do hủy thì:   + Thực hiện đánh giá người dùng.   + Tiếp tục bước 4. * A3: Tại bước 3, nếu lý do không hợp lý thì quay lại bước 2 một lần duy nhất. Nếu cung cấp lần 2 không hợp lý thì:   + Thực hiện đánh giá người dùng.   + Tiếp tục bước 4. |

* + - Đặc tả UC bằng sơ đồ hoạt động

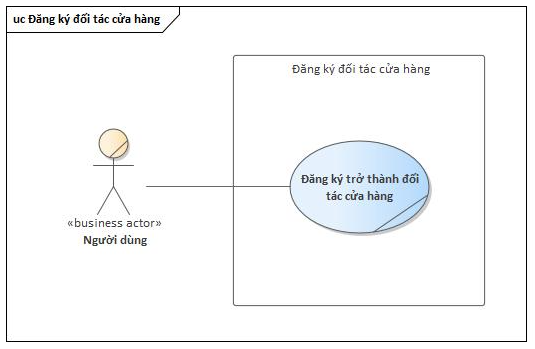
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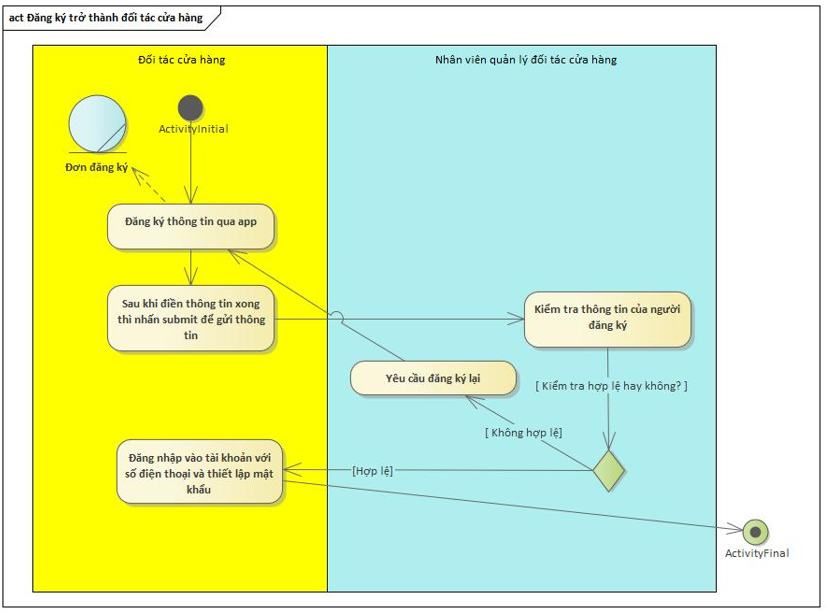
#### Đối tác

* + **Đăng ký đối tác cửa hàng:**
* Đặc tả bằng UC:

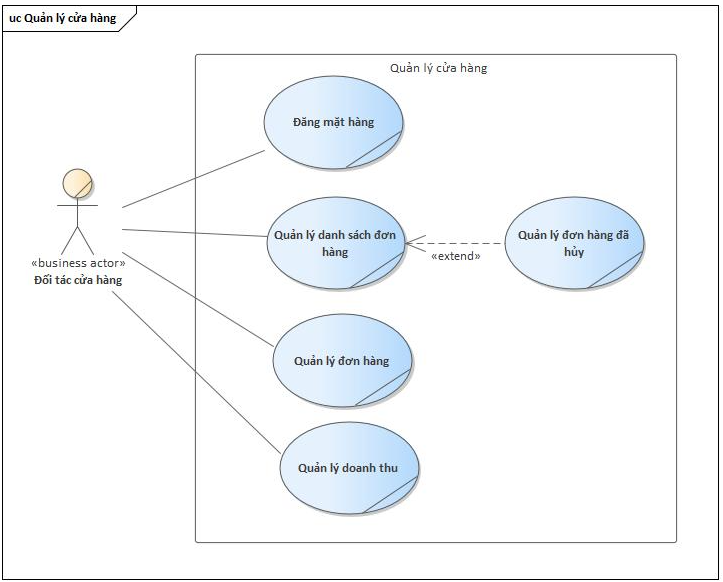
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| **Tên Use case** | **Đăng ký trở thành đối tác cửa hàng** |
| Mô tả | - Use case bắt đầu khi người dùng muốn trở thành đối tác cửa hàng của hệ thống.  - Use case mô tả quá trình người dùng đăng ký để trở thành đối tác của hệ thống. |
| Dòng cơ bản | 1. Người dùng đăng ký thông tin qua app. 2. Người dùng gửi thông tin. 3. Nhân viên quản lý đối tác cửa hàng kiểm tra thông tin người đăng ký. 4. Người dùng đăng nhập vào tài khoản với số điện thoại và thay đổi mật khẩu. Kết thúc use case. |
| Dòng thay thế | A3. Tại bước 3, nếu thông tin không hợp lệ, nhân viên quản lý đối tác cửa hàng yêu cầu đăng ký lại, quay lại bước 1. |



* + - Đặc tả bằng sơ đồ hoạt động:



* + **Quản lý cửa hàng:**



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| **Tên Use case** | **Đăng mặt hàng** |
| Mô tả | - Use case bắt đầu khi đối tác cửa hàng muốn đăng hàng lên hệ thống.  - Use case mô tả quá trình đối tác cửa hàng đăng mặt hàng lên hệ thống. |
| Dòng cơ bản | 1. Đối tác cửa hàng đăng thông tin lên app bao gồm các thông tin như hình ảnh, danh mục, tên mặt hàng, giá tiền, khung giờ bán, mô tả. 2. Đối tác cửa hàng xác nhận tiếp nhận đơn hàng từ khách. Kết thúc use case. |
| Dòng thay thế | Không có. |

* + - Đặc tả bằng sơ đồ hoạt động

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| **Tên Use case** | **Quản lý danh sách đơn hàng** |
| Mô tả | - Use case bắt đầu khi người dùng muốn kiểm tra tình trạng đơn hàng.  - Use case mô tả quá trình người dùng quản lý nhưng đơn hàng cửa mình. |
| Dòng cơ bản | 1. Đối tác cửa hàng xem và kiểm tra tình trạng các đơn hàng. 2. Đối tác cửa hàng đợi shipper đến nhận hàng để giao đối với các đơn hàng “Hoàn thành”. 3. Shipper tiếp nhận đơn hàng và giao cho khách. Kết thúc use case. |
| Dòng thay thế | A2. Tại bước 2, nếu tình trạng đơn hàng là “Đã Hủy”, Đối tác cửa hàng thực hiện use case Quản lý đơn hàng đã hủy. Kết thúc use case.  A3. Tại bước 3, nếu shipper không đến nhận hàng, thì đối tác cửa hàng nhấn vào “yêu cầu khẩn cấp” trên app.  A3.1. Nhân viên quản lý đối tác cửa hàng sẽ xử lý cho chủ hàng.  A3.2. Nếu nhân viên quản lý đối tác cửa hàng gọi cho shipper và xác nhận sẽ nhận đơn hàng thì nhân viên quản lý đơn hàng sẽ giữ đơn hàng, quay lại bước 2.  A3.2.1. Nếu nhân viên quản lý đối tác cửa hàng không liên lạc được shipper thì sẽ hủy đơn hàng và bồi thường thiệt hại cho chủ cửa hàng, đồng thời xử phạt với shipper.Kết thúc use case. |

* Đặc tả bằng sơ đồ hoạt động:

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| **Tên Use case** | **Quản lý đơn hàng đã hủy** |
| Mô tả | - Use case bắt đầu khi đối tác cửa hàng nhìn thấy đơn hàng đã hủy.  - Use case mô tả quá trình đối tác cửa hàng quản lý đơn hàng đã hủy. |
| Dòng cơ bản | 1. Đối tác cửa hàng xem lý do hủy đơn hàng. 2. Đối tác cửa hàng xem như chưa có đơn hàng đó còn nếu đang được shipper giao đi thì sẽ được hoàn trả lại hàng nếu lý do hủy đơn hàng đúng quy định. Kết thúc use case. |
| Dòng thay thế | A2. Tại bước 2, nếu khách hàng không hài lòng về sản phẩm, chủ cửa hàng sẽ liên hệ và thỏa thuận với khách hàng.  A2.1 Nếu khách hàng đồng ý, shipper sẽ hoàn trả lại đơn hàng và giao lại hàng mới cho khách hàng. Kết thúc use case.  A2.1.1. Tại bước 2.1, nếu khách hàng không đồng ý, shipper hoàn trả lại hàng cho chủ cửa hàng.  A2.1.2. Chủ cửa hàng hoàn trả lại tiền và xin lỗi khách hàng. Kết thúc use case.  A2.2. Tại bước 2, nếu là lý do hủy đơn hàng khác, nhân viên quản lý đối tác cửa hàng sẽ xử lý và bồi thường lại cho chủ cửa hàng. Kết thúc use case. |

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| **Tên Use case** | **Quản lý đơn hàng mới** |
| Mô tả | - Use case bắt đầu khi đối tác cửa hàng nhận đơn hàng mới.  - Use case mô tả quá trình đối tác cửa hàng chuẩn bị đơn hàng. |
| Dòng cơ bản | 1. Đối tác cửa hàng xem thông tin đơn hàng khách yêu cầu. 2. Đối tác cửa hàng chuẩn bị đơn hàng và liên hệ với shipper để giao hàng. Kết thúc use case. |
| Dòng thay thế |  |

Diagram

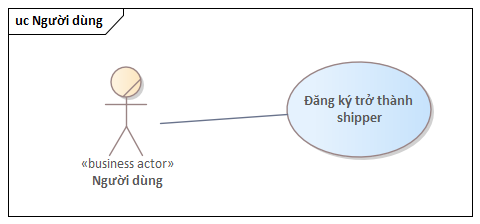
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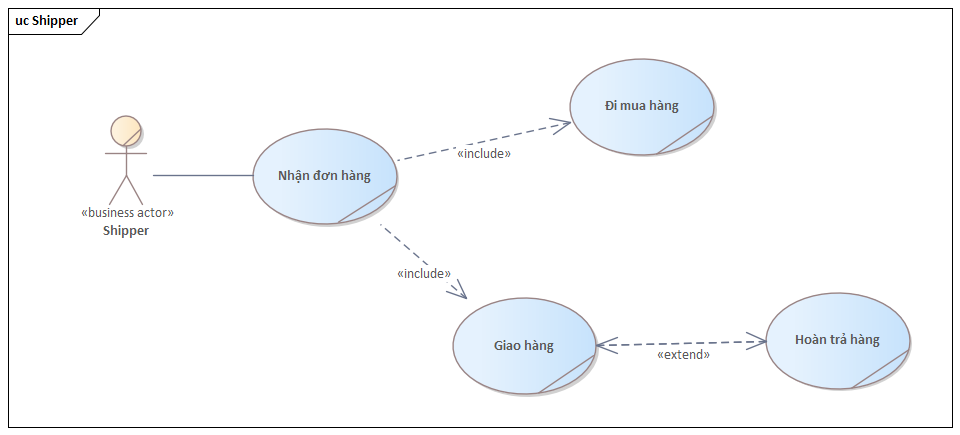
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| **Tên Use case** | **Quản lý doanh thu** |
| Mô tả | - Use case bắt đầu khi đối tác muốn thống kê doanh thu.  - Use case mô tả quá trình đối tác cửa hàng xem doanh thu của mình. |
| Dòng cơ bản | 1. Đối tác cửa hàng xem tổng doanh thu theo từng ngày, tháng, năm. 2. Đối tác cửa hàng định giá sản phẩm theo doanh thu và tính toán mua nguyên liệu hoặc hàng hóa bổ sung. Kết thúc use case. |
| Dòng thay thế |  |

Diagram

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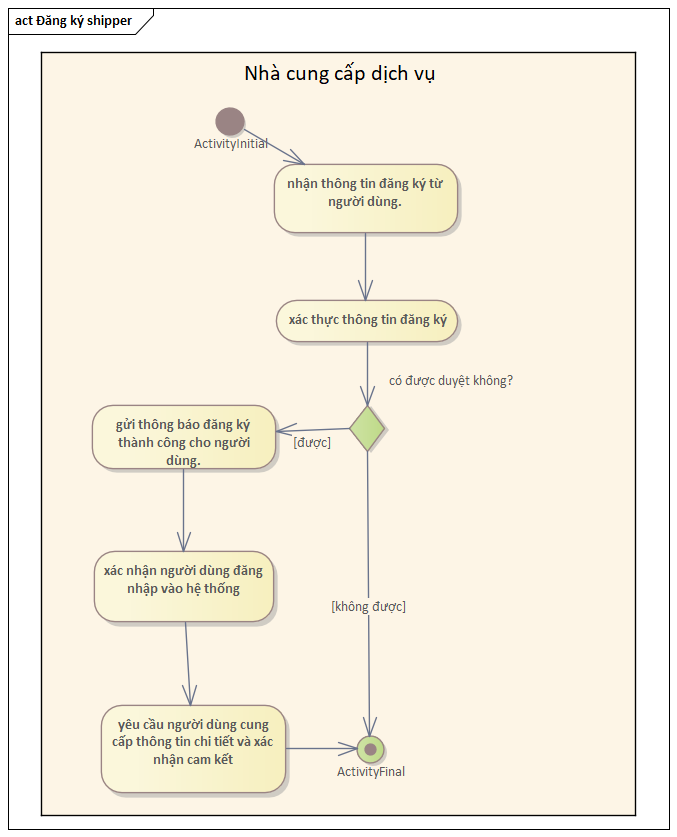
* + **Shipper**:
* Đặc tả bằng business use case:





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| Tên Use case | Đăng ký trở thành shipper |
| Mô tả | - Use case bắt đầu khi người dùng muốn trở thành shipper của hệ thống.  - Use case mô tả quá trình người dùng đăng ký để trở thành shipper. |
| Dòng cơ bản | 1. Nhà cung cấp dịch vụ nhận thông tin đăng ký từ người dùng. 2. Nhà cung cấp dịch vụ xác thực thông tin đăng ký. 3. Nhà cung cấp dịch vụ gửi thông báo đăng ký thành công cho người dùng. 4. Nhà cung cấp dịch vụ xác nhận người dùng đăng nhập vào hệ thống. 5. Nhà cung cấp dịch vụ yêu cầu người dùng cung cấp thông tin chi tiết và xác nhận cam kết. |
| Dòng thay thế | A2. - Tại bước 2, nếu thông tin không được xác nhận, người dùng không thể trở thành shipper, kết thúc usecase. |

* + Đặc tả bằng sơ đồ hoạt động:



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| **Tên Use case** | **Nhận đơn hàng** |
| Mô tả | - Use case bắt đầu khi shipper muốn nhận 1 đơn hàng mới.  - Use case mô tả quá trình shipper nhận đơn hàng. |
| Dòng cơ bản | 1. Shipper bật nút nhận đơn hàng. 2. Shipper chọn 1 đơn hàng phù hợp. 3. Shipper xác nhận nhanh đơn hàng. 4. Shipper sẽ được thông báo các thông tin chi tiết về đơn hàng. 5. Shipper gọi điện cho khách hàng để xác nhận đơn hàng. 6. Shipper xác nhận thông tin về đơn hàng, địa chỉ giao hàng với khách hàng. 7. Thực hiện use case Đi mua hàng. 8. Thực hiện use case Giao hàng. |
| Dòng thay thế | A4. - Tại bước 4, nếu khách hàng đã thanh toán online có thể không cần gọi điện. Bỏ qua bước 5, thực hiện bước 6.  - Nếu không gọi được cho khách hàng 3 lần thì chụp lại hình ảnh lịch sử cuộc gọi, kết thúc usecase. |

Diagram

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| **Tên Use case** | **Đi mua hàng** |
| Mô tả | - Use case bắt đầu sau khi shipper đã nhận đơn hàng thành công.  - Use case mô tả quá trình shipper mua một đơn hàng. |
| Dòng cơ bản | 1. Shipper đến đúng địa chỉ cửa hàng, chụp lại ảnh cửa hàng. 2. Cửa hàng kiểm tra thông tin của shipper. 3. Shipper đọc đúng món số lượng, khối lượng món hàng cho cửa hàng. 4. Cửa hàng chuẩn bị hàng, giao cho shipper. 5. Shipper kiểm tra hàng nhận được và nhanh chóng giao cho khách hàng. |
| Dòng thay thế | A4. Nếu món hàng bị thiếu hoặc hết hàng, shipper phải gọi điện cho khách hàng để thông báo. Nếu khách hàng muốn tiếp tục mua các món còn lại sẽ tiếp tục thực hiện bước 5. Nếu khách không đồng ý thì hủy đơn hàng. |

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| **Tên Use case** | **Giao hàng** |
| Mô tả | - Use case bắt đầu sau khi shipper đã nhận hàng và giao cho khách hàng.  - Use case mô tả quá trình shipper một đơn hàng cho khách hàng. |
| Dòng cơ bản | 1. Shipper đến đúng chỉ cần giao. 2. Shipper gọi điện cho khách hàng để nhận hàng. 3. Shipper giao hàng cho khách. 4. Shipper đợi khách kiểm tra đơn hàng và nhận hàng. 5. Shipper thu đúng số tiền hiển thị trên ứng dụng. 6. Shipper cho khách hàng ký nhận đơn hàng. |
| Dòng thay thế | A2. Tại bước 2, nếu không gọi được cho khách hàng 3 lần thì chụp lại hình ảnh lịch sử cuộc gọi. đưa số điện thoại này vào danh sách số điện thoại bom hàng. Kết thúc usecase.  A3. Tại bước 3, nếu khách hàng không nhận hàng, thực hiện usecase hoàn trả đơn hàng. |

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| **Tên Use case** | **Hoàn trả đơn hàng** |
| Mô tả | - Use case bắt đầu sau khi shipper không gọi điện cho khách hàng khi giao hàng hoặc khách hàng yêu cầu hoàn trả đơn hàng.  - Use case mô tả quá trình hoàn trả lại 1 đơn hàng cho cửa hàng. |
| Dòng cơ bản | 1. Shipper chụp ảnh lại các món hàng trước khi trả lại. 2. Cửa hàng nhận hàng và kiểm tra đơn hàng. 3. Cửa hàng gọi điện và trao đổi với khách hàng. 4. Cửa hàng gửi lại đơn hàng cho khách hàng. 5. Thực hiện use case Giao hàng. |
| Dòng thay thế | A5. - Tại bước 4, nếu khách hàng không muốn nhận lại đơn hàng sẽ bỏ quá bước 5, kết thúc usecase. Nếu khách hàng đã thanh toán online sẽ gửi trả lại tiền cho khách hàng. |

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## Yêu cầu chức năng

| ID | Chức năng | Yêu cầu | Mô tả Thêm |
| --- | --- | --- | --- |
| UF1 | *Đăng ký tài khoản* | Khách hàng đăng ký tài khoản trên hệ thống bao gồm các bước:   * Bước 1: Yêu cầu khách hàng nhập thông tin cơ bản bao gồm: họ tên, số CMND, ngày sinh, địa chỉ, tình trạng khu vực,…. * Bước 2: Xác thực sms và tiếp tục. * Bước 3: Yêu cầu khách hàng cung cấp ảnh chụp khuôn mặt và 2 mặt hình CMND và tiếp tục. * Bước 4: Khách hàng thêm thông tin thanh toán(nếu có), nếu không thì bỏ qua bước này. * Bước 5: Tạo mật khẩu và hoàn tất đăng ký. |  |
| UF2 | *Đăng Nhập.* | Khách hàng đăng nhập sau khi đã đăng ký tài khoản trên hệ thống. Thông tin đăng nhập bao gồm:   * Tên tài khoản: Sđt đăng ký. * Mật khẩu: Mật khẩu khách hàng tạo khi đăng ký tài khoản. |  |
| UF3 | *Quên Mật Khẩu* | * Khách hàng quên mật khẩu và đã có tài khoản trên hệ thống. Xác thực bằng sms và khởi tạo mật khẩu mới. |  |
| UF4 | *Xem thông người dùng*  *(admin)* | * Tìm kiếm khách hàng: Chức năng dùng để tìm kiếm và xem thông tin của người dùng trên hệ thống. Tìm kiếm dựa trên ID hoặc Họ tên,role,… * Xem thông tin của tất cả các người dùng trên hệ thống. * Xem thông tin khách hàng theo khu vực: Chức năng dùng để tìm kiếm và xem thông tin của các khách hàng trong 1 khu vực nhất định (địa chỉ,vùng cam, vùng đỏ, vùng xanh,....). Tìm kiếm dựa trên: mã vùng hoặc địa chỉ, … | Chỉ xem được 1 số thông tin nhất định. |
| UF5 | *Đăng ký trở thành đối tác cửa hàng* | * Người dùng sẽ cung cấp các thông tin cá nhân để bên hệ thống quản lý. | Bao gồm: Họ và tên, Số điện thoại, CMND/CCCD, Email, Khu vực (Hồ Chí Minh, Hà Nội, Đà Nẵng, Cần Thơ, … ), Tên cửa hàng, Ngành kinh doanh/Hình thức kinh doanh, địa chỉ cửa hàng. |
| UF6 | *Đăng mặt hàng* | * Chủ cửa hàng có thể đăng các mặt hàng mình mong muốn. | Bao gồm: hình ảnh, danh mục, tên mặt hàng, giá tiền, khung giờ bán, mô tả. |
| UF7 | *Quản lý danh sách đơn hàng* | * Chủ cửa hàng có thể xem được danh sách đơn hàng của mình để biết và xử lý các tình huống có thể xảy ra đối với bất kỳ đơn hàng nào. |  |
| UF8 | *Quản lý đơn hàng* | * Cửa hàng sẽ nhận được thông báo của hệ thống về đơn hàng. | Thông tin đơn hàng: mã đơn, thực phẩm, số lượng, thông tin shipper... Tình trạng đơn hàng được cập nhật liên tục, đơn hàng sẽ được lưu lại khi có người đặt hàng. |
| UF9 | *Quản lý doanh thu* | * Cửa hàng cần thống kê doanh thu của mình, có thể định giá được sản phẩm của mình, lên danh sách mua nguyên vật liệu hoặc vật phẩm để nhập về. | Cửa hàng có thể xem được các đơn hàng của mình, tổng doanh thu theo ngày, tháng, năm, ... Thống kê các sản phẩm bán chạy, các sản phẩm gần hết hàng. |
| UF10 | *Quản lý đơn giá đơn hàng* | * Quản lý sẽ định ra các mức giá chung cho các đơn hàng. | Có thể định giá theo số km, khối lượng, kích thước tùy vào từng mặt hàng. |
| UF11 | *Nhận đơn hàng* | * Shipper có thể chọn các đơn hàng phù hợp để đi giao hàng, hoặc nhận bằng cách tự động. * Shiper có thể xem được có thông tin về đơn hàng. | Thông tin về đơn hàng: địa chỉ giao, địa chỉ mua, sản phẩm, số lượng, giá tiền, ... |
| UF12 | *Hiệu chỉnh đơn hàng* | * Khách hàng sẽ liên lạc shipper và yêu cầu được hiệu chỉnh đơn hàng. * Khách hàng hiệu chỉnh trước lúc đơn hàng ở trạng thái **Shipper đã mua, đang giao**. * Khi mua mà những sản phẩm theo yêu cầu trong đơn hàng hết hoặc thiếu thì shipper liên hệ với khách hàng để họ chỉnh sửa đơn hàng cho phù hợp. | * Khách hàng hiệu chỉnh đơn hàng thoải moái trong trường hợp shiper chưa nhận đơn hàng (đơn hàng ở trạng thái **Chưa có shiper**).   **Chức năng này dành cho Khách hàng.** |
| UF13 | *Giao đơn hàng* | * Sau khi nhận đơn hàng, shipper cần cập nhật tình trạng đơn hàng liên tục cho đến khi giao hàng cho khách hàng. | * Tình trạng đơn hàng: Đã nhận đơn, đang chuẩn bị hàng, đang vận chuyển, … |
| UF14 | *Hủy đơn hàng* | * Khi gặp các trường hợp ngoài mong muốn, có thể hủy đơn hàng. | * Lý do hủy đơn: (Phía bên ứng dụng sẽ kiểm tra và xử lý bồi thường nếu shipper báo cáo không đúng lý do, không đúng sự thật) * Khách hủy đơn hàng (Khách chủ động kêu hủy đơn). * Khách không nghe điện thoại (Gọi tối thiểu 3 cuộc rồi mới hủy đơn). * Quán hết món hoặc quán nghỉ món. * Xe hư thì app sẽ tự động khóa 30 phút để đi sửa xe. * Lý do khác thì 5 lần / 1 ngày ứng dụng sẽ khóa lại 6 tiếng. |
| UF15 | *Nhận số lượng về thông tin mặt hàng của các đối tác bán hàng được bán vào ngày hôm sau* | * Các bên đối tác bán hàng có thể nhập số lượng sản phẩm, các mặt hàng được bán vào ngày hôm sau để có thể thiết lập cửa hàng của riêng mình | Để giải quyết tình trạng số lượng sản phẩm phải cung cấp rất lớn cũng như đáp ứng được toàn bộ các nhu cầu của người dân thì các bên đối tác cần phải đưa ra các số liệu về thông tin bán hàng để hệ thống có thể thực hiện các quy trình khác nhằm tránh việc thiếu hụt sản phẩm, sản phẩm được mua nhưng không giao được, … |
| UF16 | *Thống kê số liệu về các mặt hàng được bán ra theo đơn hàng mỗi ngày* | * Nhân viên quản lý sẽ thống kê số liệu bán ra mỗi ngày và sort ra các loại sản phẩm được mua nhiều, yêu cầu nhiều, … Đưa ra các bản báo cáo để gửi trả về cho các bên đối tác | * Thống kê đơn hàng hằng ngày để có thể lấy các số liệu liên tục gửi về cho các bên đối tác để họ có thể biết được nhu cầu của khách hàng nhằm chuẩn bị hàng trước cho các ngày hôm sau. Giải quyết bài toán lượng khách hàng lớn, số lượng sản phẩm lớn. * Ngoài ra thì để có thể đưa ra các báo cáo theo tháng, quý để phân tích và dự đoán nhằm tạo ra trải nghiệm tốt hơn cho khách hàng cũng như có thể phục vụ người dân trong hoàn cảnh cách ly xã hội hiện nay. |
| UF17 | *Phân chia đơn theo khu vực đỏ, cam, xanh cho từng shipper phù hợp* | * Với mỗi đơn hàng nhân viên sẽ phải kiểm soát đơn hàng theo từng khu vực để có thể gửi đơn cho shipper phù hợp. Chẳng hạn shipper đã tiêm 2 mũi, có giấy chứng nhận đã khỏi covid thì được giao vào các khu vực đỏ, cam, xanh Các shipper đã tiêm 1 mũi, có giấy chứng nhận âm tính với covid thì được giao vào các khu vực cam, xanh | * Để phục vụ cho việc giao các đơn hàng được tối ưu nhất, tránh các trường hợp lây nhiễm bệnh cũng như tuân theo các chỉ thị của chính phủ. * Ngoài ra phục vụ cho mục đích thống kê số lượng khách đặt hàng, shipper trong các khu vực đỏ, cam, xanh. |
| UF18 | *Thanh toán online qua các ví điện tử và ngân hàng* | * Các đơn hàng có thể cho khách hàng phương thức thanh toán qua các ví điện tử như momo, zalo pay, … Các đơn hàng có thể thanh toán qua tài khoản ngân hàng | * Nhằm giảm tỷ lệ lây lan bệnh qua việc shipper tiếp xúc với khách hàng và ngược lại. * Phù hợp với chỉ thị của chính phủ. |
| UF19 | *Thanh toán bằng tiền mặt* | * Để có thể thanh toán bằng tiền mặt thì các khách hàng cần đáp ứng được các yêu cầu về độ an toàn dịch bệnh Ví dụ: Không mắc covid, không nằm trong vùng đỏ, … | Đối với các trường hợp bất khả kháng không thể thanh toán qua onl thì ta cần có biện pháp thanh toán dự trù là bằng tiền mặt Nhưng chỉ áp dụng với các đơn hàng an toàn, không có khả năng lây lan bệnh qua việc tiếp xúc với khách hàng đối với các shipper |
| UF20 | *Lập đơn đặt hàng* | * Khách hàng lập đơn đặt hàng bằng cách chọn các loại mặt hàng và số lượng cần mua. Sau đó cung cấp các thông tin để nhận hàng bao gồm: địa chỉ nhận và thời gian nhận. |  |
| UF21 | *Theo dõi đơn hàng* | * Khách hàng có thể theo dõi những đơn hàng của mình đang ở trạng thái nào. |  |
| UF22 | *Cho phép hiệu chỉnh đơn hàng* | * Shipper đã nhận giao đơn hàng (Đơn hàng ở trạng thái **Shipper đang mua**). * Thực hiện trước khi Đơn hàng ở trạng thái **Shipper đã mua, đang giao**. * Nếu khách hàng muốn hiệu chỉnh đơn hàng thì cần liên lạc với shipper để thỏa thuận, xin phép được hiệu chỉnh đơn hàng. | * **Chức năng này dành cho shipper**.   Nằm trong chuỗi quy tình Hiệu chỉnh đơn hàng. |
| UF23 | *Chấp nhận hiệu chỉnh đơn hàng* | * Shipper phải **cho phép hiệu** chỉnh sau đó mới **chấp nhận hiệu chỉnh** đơn hàng được. * Thực hiện sau khi khách hàng hiệu chỉnh đơn hàng hoàn tất. | * **Chức năng này dành cho shipper.** * Nằm trong chuỗi quy trình Hiệu chỉnh đơn hàng**.** |
| UF24 | *Đánh giá đơn hàng* | * Khách hàng đánh giá Shipper với đơn hàng tương ứng. * Shipper đánh giá khách hàng với đơn hàng tương ứng. * Chỉ được đánh giá đơn hàng trong vòng 1 ngày kể từ khi đơn hàng đã giao hoặc bị hủy. | * Đánh giá bằng comment hoặc sao. * Những comment, sao có thể là những lý do cho những đơn hàng bị hủy. |

## Yêu cầu phi chức năng

|  |  |  |
| --- | --- | --- |
| STT | Danh Mục | Mô Tả |
| 1 | Trải nghiệm người  dùng (UX) | Truy cập nhanh, dễ dàng. |
| 2 | Hiệu suất | Các mặt hàng mới và số lượng liên tục cập nhập trên hệ thống. |
| 3 | Giao diện người dùng (UI) | Giao diện dễ dùng, dễ đọc. Thiết kế gần gũi và mang màu sắc,sáng sủa. Chức năng được phân loại rõ ràng dễ dàng cho người dùng sử dụng. |
| 4 | Bảo mật | Thông tin cá nhân quan trọng của khách hàng được bảo mật. |
| 5 | Bảo mật | Người quản trị hệ thống không được nắm toàn bộ các quyền truy xuất và cấp quyền cho người dùng khác. Tránh việc một cá nhân có quyền hạn quá cao trong hệ thống. |

# Chương 3: Phân tích

1. **UF1: Đăng ký tài khoản.**

**Đặc tả UF1:**

|  |  |
| --- | --- |
| Mã | UF1 |
| Tiêu đề | Đăng ký tài khoản |
| Mô tả | Đăng ký tài khoản hệ thống đi chợ thuê. |
| Tác nhân | Người dùng có nhu cầu đi chợ thuê. |
| Mục tiêu | Đăng ký tài khoản để tham gia hệ thống. |
| Tên điều kiện | Không có. |
| Hậu điều kiện | Tài khoản và thông tin người dùng mới được tạo trên hệ thống |
| Dòng cơ bản | 1. [IN] Người dùng chọn đăng ký tài khoản.  2. [OUT] Hệ thống hiển thị các thông tin cần nhập và yêu cầu người dùng thực hiện xác thực sms.  3.[IN] Người dùng nhập thông tin.  3.1 [OUT] Hệ thống từ chối khi thông tin là không hợp lệ (CMND đã được đăng ký, số điện thoại đã được đăng ký, email đã được đăng ký, người dùng điền thiếu thông tin, ...) hoặc không xác thực được (Người dùng không vượt qua được bài kiểm tra xác nhận là người thật, người dùng không xác thực email hoặc số điện thoại đăng ký)  4. [IN] Người dùng nhập Username, Password.  5. [OUT] Hệ thống thông báo đã đăng ký thành công và đưa người dùng về trang đăng nhập. |
| Dòng thay thế | Dòng 2:  3.1. Thực thi khi thông tin là không hợp lệ hoặc không xác thực được. |
| Use case include | Không có. |
| Use case extend | Không có. |

Diagram

Description automatically generated

1. **UF2: Đăng nhập.**

|  |  |
| --- | --- |
| Mã | UF2 |
| Tiêu đề | Đăng nhập vào hệ thống. |
| Mô tả | Người dùng đăng nhập vào hệ thống để thực hiện các chức năng. |
| Tác nhân | Người dùng. |
| Mục tiêu | Cho phép người dùng vào hệ thống để thực hiện các chức năng. Xác định người dùng là ai để cấp quyền tương ứng. |
| Tên điều kiện | Người dùng đã có tài khoản trên hệ thống. |
| Hậu điều kiện | Người dùng vào được bên trong hệ thống. Lịch sử lưu lại lần đăng nhập của người dùng. |
| Dòng cơ bản | 1. [IN] Người dùng chọn đăng nhập vào hệ thống.  2. [OUT] Hệ thống hiển thị thông tin cần nhập để đăng nhập.  3. [IN] Người dùng nhập thông tin cần nhập để đăng nhập và nhấn đăng nhập.  4. [OUT] Hệ thống chuyển người dùng đến màn hình khác nếu đăng nhập thành công và hiện thông báo nếu đăng nhập không thành công. |
| Dòng thay thế | Dòng 4: Nếu người dùng đăng nhập không thành công và trong trường hợp mật khẩu không đúng thì cho phép thực hiện UC Quên Mật Khẩu |
| Use case include | Không có. |
| Use case extend | Quên Mật Khẩu. |

Diagram

Description automatically generated

1. **UF3: Quên mật khẩu.**

|  |  |
| --- | --- |
| Mã | UF3 |
| Tiêu đề | Quên Mật Khẩu |
| Mô tả | Người dùng khởi tạo mật khẩu mới khi đã có tài khoản trên ứng dụng và bị quên mật khẩu. |
| Tác nhân | Người dùng. |
| Mục tiêu | Người dùng tạo mật khẩu mới và đăng nhập vào hệ thống. |
| Tên điều kiện | Người dùng có tài khoản trên hệ thống. |
| Hậu điều kiện | Người dùng tạo mật khẩu mới. |
| Dòng cơ bản | 1. [IN] Nhấn quên mật khẩu.  2. [OUT] Hệ thống thông báo đã gửi mã OTP để đặt lại mật khẩu và hiển thị khung nhập mã OTP.  3. [IN] Người dùng nhập mã OTP đã nhận để đặt lại mật khẩu. 4. [OUT] Hệ thống hiển thị khung nhập mật khẩu mới và xác nhận mật khẩu mới.  5. [IN] Người dùng nhập mật khẩu mới sau đó nhấn xác nhận. |
| Dòng thay thế | Không có. |
| Use case include | Không có. |
| Use case  extend | Không có. |

Diagram

Description automatically generated

1. **UF4: Xem thông tin người dùng(admin).**

|  |  |
| --- | --- |
| Mã | UF4 |
| Tiêu đề | Xem thông tin người dùng. |
| Mô tả | Xem thông tin, lịch sử giao dịch, thao tác thực hiện của người dùng trên hệ thống. |
| Tác nhân | Admin. |
| Mục tiêu | Cho phép admin truy cập vào xem 1 số thông tin nhất định và lịch sử thao tác của khách hàng trên hệ thống trong trường hợp cần truy cứu. |
| Tên điều kiện | Người chịu trách nhiệm quản trị hệ thống. |
| Hậu điều kiện | Admin lấy được thông tin cần thiết |
| Dòng cơ bản | 1. [IN] Admin đăng nhập vào tài khoản hệ thống.  2. [IN] Admin nhập thông tin cần nhập để đăng nhập và nhấn đăng nhập.  3. [OUT] Xác thực tài khoản.  4. [OUT] Hệ thống chuyển đến màn hình quản lý nếu đăng nhập thành công và hiện thông báo nếu đăng nhập không thành công.  5. [IN] Admin xem thông tin cần thiết. |
| Dòng thay thế | Không có. |
| Use case include | Không có. |
| Use case  extend | Không có. |

1. **UF5: Đăng ký đối tác cửa hàng**

|  |  |
| --- | --- |
| Mã | UF5 |
| Tiêu đề | Đăng ký đối tác cửa hàng |
| Mô tả | Đăng ký để trở thành đối tác cửa hàng của bên hệ thống. |
| Tác nhân | Người dùng. |
| Mục tiêu | Trở thành đối tác của hệ thống. |
| Tiền điều kiện | Người dùng chưa có tài khoản đối tác của hệ thống. |
| Hậu điều kiện | Đăng ký thành công. |
| Dòng cơ bản | 1. Người dùng chọn đăng ký tài khoản đối tác cửa hàng. 2. Hệ thống hiển thị màn hình đăng ký. 3. Người dùng điền thông tin cần thiết và nhấn nút đăng ký. 4. Hệ thống kiểm tra thông tin người dùng đã điền. 5. Tên đăng nhập hợp lệ (chưa tồn tại) 6. Số điện thoại có 10 chữ số 7. Hệ thống gửi mã xác thực. 8. Người dùng xác thực theo mã. 9. Hệ thống thông báo đã đăng ký thành công. |
| Dòng thay thế | A5. Nếu thông tin không hợp lệ:  -          Hệ thống hiển thị thông báo và yêu cầu người dùng đăng ký lại.  -          Quay lại bước 3 trong luồng sự kiện.  A7. Nếu người dùng xác thực không thành công sẽ quay lại bước 5. |
| Use case include | Không có |
| Use case extend | Không có |

Diagram

Description automatically generated

1. **UF6: Đăng mặt hàng.**

|  |  |
| --- | --- |
| Mã | UF6 |
| Tiêu đề | Đăng mặt hàng |
| Mô tả | Đối tác cửa hàng đăng mặt hàng mình muốn bán lên hệ thống. |
| Tác nhân | Đối tác cửa hàng. |
| Mục tiêu | Đăng mặt hàng lên ứng dụng. |
| Tiền điều kiện | Đối tác cửa hàng đã có tài khoản. |
| Hậu điều kiện | Đăng mặt hàng thành công. |
| Dòng cơ bản | 1.  Đối tác cửa hàng chọn đăng mặt hàng.  2.  Hệ thống hiển thị màn hình đăng mặt hàng.  3.  Đối tác điền thông tin cần thiết và nhấn nút đăng mặt hàng.  4.  Hệ thống thông báo đã đăng ký thành công. |
| Dòng thay thế | Không có |
| Use case include | Không có |
| Use case extend | Không có |

Diagram

Description automatically generated

1. **UF7: Quản lý danh sách đơn hàng.**

|  |  |
| --- | --- |
| Mã | UF7 |
| Tiêu đề | Quản lý danh sách đơn hàng |
| Mô tả | Xem danh sách đơn hàng. |
| Tác nhân | Đối tác cửa hàng. |
| Mục tiêu | Quản lý các đơn hàng của cửa hàng. |
| Tiền điều kiện | Người dùng đã trở thành đối tác cửa hàng và có đơn hàng được bán đi. |
| Hậu điều kiện | Không có. |
| Dòng cơ bản | 1.  Đối tác cửa hàng chọn danh sách đơn hàng.  2.  Hệ thống hiển thị màn hình danh sách đơn hàng.  3.  Đối tác cửa hàng chọn từng đơn hàng để xem chi tiết |
| Dòng thay thế | Không có |
| Use case include | Không có |
| Use case extend | Quản lý đơn hàng đã hủy |

Diagram, engineering drawing

Description automatically generated

1. **UF8: Quản lý tiếp nhận đơn hàng.**

|  |  |
| --- | --- |
| Mã | UF8 |
| Tiêu đề | Quản lý tiếp nhận đơn hàng |
| Mô tả | Đối tác cửa hàng sẽ xem được đơn hàng mới của mình. |
| Tác nhân | Đối tác cửa hàng. |
| Mục tiêu | Quản lý các đơn hàng mới của cửa hàng. |
| Tiền điều kiện | Người dùng đã trở thành đối tác cửa hàng và đã đăng các mặt hàng để bán. |
| Hậu điều kiện | Không có. |
| Dòng cơ bản | 1.  Đối tác cửa hàng chọn đơn hàng mới.  2.  Hệ thống hiển thị màn hình đơn hàng mới.  3.  Đối tác cửa hàng xem thông tin chi tiết của đơn hàng mới. |
| Dòng thay thế | Không có. |
| Use case include | Không có. |
| Use case extend | Không có. |

Diagram

Description automatically generated

1. **UF9: Quản lý doanh thu.**

|  |  |
| --- | --- |
| Mã | UF9 |
| Tiêu đề | Quản lý doanh thu |
| Mô tả | Đối tác cửa hàng sẽ xem được doanh thu của cửa hàng. |
| Tác nhân | Đối tác cửa hàng. |
| Mục tiêu | Quản lý doanh thu của cửa hàng. |
| Tiền điều kiện | Người dùng đã trở thành đối tác cửa hàng và đã bán được các đơn hàng. |
| Hậu điều kiện | Không có. |
| Dòng cơ bản | 1.  Đối tác cửa hàng chọn doanh thu.  2.  Hệ thống hiển thị màn hình doanh thu.  3.  Đối tác cửa hàng xem thông tin chi tiết của doanh thu. |
| Dòng thay thế | Không có. |
| Use case include | Không có. |
| Use case extend | Không có. |

Diagram

Description automatically generated

**UF : Đăng ký shipper.**

|  |  |
| --- | --- |
| Mã |  |
| Tiêu đề | Đăng ký shipper |
| Mô tả | Đăng ký cửa hàng để tham gia hệ thống. |
| Tác nhân | Người dùng. |
| Mục tiêu | Trở thành shipper của hệ thống. |
| Tiền điều kiện | Người dùng chưa có tài khoản shipper. |
| Hậu điều kiện | Đăng ký thành công. |
| Dòng cơ bản | 1. Người dùng chọn đăng ký tài khoản shipper. 2. Hệ thống hiển thị màn hình đăng ký. 3. Người dùng điền thông tin cần thiết và nhấn nút đăng ký. 4. Hệ thống kiểm tra thông tin người dùng đã điền.  * Tên đăng nhập hợp lệ (chưa tồn tại) * Số điện thoại có 10 chữ số  1. Hệ thống gửi mã xác thực. 2. Người dùng xác thực theo mã. 3. Hệ thống thông báo đã đăng ký thành công. |
| Dòng thay thế | A5. Nếu thông tin không hợp lệ:   * hệ thống hiển thị thông báo * xóa các thông tin người dùng đã nhập * Quay lại bước 3 trong luồng sự kiện.   A7. Nếu người dùng xác thực không thành công sẽ quay lại bước 5. |
| Use case include | Không có |
| Use case extend | Không có |

Diagram

Description automatically generated

**11. UF11: Nhận đơn hàng.**

|  |  |
| --- | --- |
| Mã | UF11 |
| Tiêu đề | Nhận đơn hàng |
| Mô tả | Shipper nhận đơn hàng mới. |
| Tác nhân | Shipper |
| Mục tiêu | Nhận đơn hàng mới. |
| Tiền điều kiện | Người dùng chưa có tài khoản shipper. |
| Hậu điều kiện | Nhận đon hàng thành công. |
| Dòng cơ bản | 1. Shipper bật nút nhận đơn hàng. 2. Hệ thống hiển thị danh sách các đơn hàng phù hợp. 3. Shipper chọn đơn hàng. 4. Hệ thống gửi mã xác nhận. 5. Shipper xác thực theo mã 6. Hệ thống gửi thông tin chi tiết về đơn hàng cho shipper. 7. Shipper cập nhật trạng thái của đơn hàng. |
| Dòng thay thế | A5. Nếu shipper xác thực không thành công thì quay lại bước 4 trong luồng sự kiện. |
| Use case include | Không có |
| Use case extend | Đi mua hàng, Giao hàng. |

Diagram

Description automatically generated

**12. UF12: Hiệu chỉnh đơn hàng.**

|  |  |
| --- | --- |
| Mã | UF12 |
| Tên Use-Case | Hiệu chỉnh đơn hàng |
| Mô tả | Khách hàng thực hiện hiệu chỉnh đơn hàng của mình. |
| Tác nhân | Khách hàng |
| Mục tiêu | Khách hàng hiệu chỉnh thành công đơn hàng của mình. |
| Tiền điều kiện | Người dùng login vào hệ thống. Người dùng đã đặt đơn hàng. Đơn hàng chưa bị hủy. **Đơn hàng đã được phép hiệu chỉnh**. |
| Hậu điều kiện | Đơn hàng được hiệu chỉnh thành công. |
| Luồng sự kiện chính | 1. [IN] Người dùng chọn chức năng hiệu chỉnh đơn hàng.  2. [OUT] Hệ thống hiển thị giao diện hiệu chỉnh đơn hàng.  3. [IN] Người dùng tìm đơn hàng cần hiệu chỉnh.  4. [OUT] Hệ thống hiển thị đơn hàng.  5. [IN] Người dùng chọn đơn hàng để hiệu chỉnh.  6. Hệ thống kiểm tra đơn hàng đã được phép hiệu chỉnh.  7. [OUT] Hệ thống hiển thị thông tin chi tiết đơn hàng cần hiệu chỉnh.  8. [IN] Người dùng hiệu chỉnh sản phẩm trong đơn hàng cho phù hợp.  9. [IN] Người dùng chọn hoàn tất hiệu chỉnh đơn hàng.  10. [OUT] Hệ thống ghi nhận thông tin hiệu chỉnh đơn hàng.  11. [OUT]Hệ thống thông báo chờ chấp nhận của shipper.  13. Kết thúc UC. |
| Luồng sự kiện phụ | A1: Tại bước 6, Nếu đơn hàng chưa được cho phép hiệu chỉnh thì kết thúc UC. |
| Biến thể |  |
| Use case include |  |
| Use case extend |  |



**13. UF13: Giao đơn hàng.**

|  |  |
| --- | --- |
| Mã | UF13 |
| Tiêu đề | Giao đơn hàng |
| Mô tả | Khi shipper đã nhận được đơn hàng và tiến hành lấy hàng và giao cho khách hàng. |
| Tác nhân | Shipper. |
| Mục tiêu | Giao đơn hàng thành công. |
| Tiền điều kiện | Shipper đã chọn đơn hàng. |
| Hậu điều kiện | Cập nhật trạng thái đơn hàng. |
| Dòng cơ bản | 1. Hệ thống hiển thị địa chỉ mua hàng. 2. Hệ thống hiển thị chi tiết các mặt hàng cần mua. 3. Shipper cập nhật trạng thái đơn hàng (khi đã đến cửa hàng, nhận hàng và đang giao hàng). 4. Hệ thống hiển thị điạ chỉ khách hàng và số điện thoại. 5. Shipper xác nhận đã nhận đơn hàng. 6. Shipper cập nhật trạng thái đơn hàng thành công. |
| Dòng thay thế | A1: tại bước 1, nếu nhận hàng không thành công, thì cập nhật trạng thái đơn hàng và kết thúc use case.  A4: nếu khách hàng không nhận đơn thì  cập nhật trạng thái Hoàn trả đơn hàng. |
| Use case include | Không có |
| Use case extend | Không có |

Diagram

Description automatically generated

**14. UF14 Hủy đơn hàng**

|  |  |
| --- | --- |
| Mã | UF14 |
| Tên Use-Case | Hủy đơn hàng |
| Mô tả | Người dùng có thể hủy đơn hàng đã đặt. |
| Tác nhân | Shipper, Khách hàng, Admin |
| Mục tiêu | Hủy được 1 đơn hàng. |
| Tiền điều kiện | Khách hàng đã đặt 1 đơn hàng và có thể hủy đơn hàng. Shipper có thể hủy đơn hàng đã nhận. Admin nhận yêu cầu hủy đơn hàng. Đơn hàng đã giao thì không thể hủy. |
| Hậu điều kiện | Đơn hàng không bị xóa khỏi hệ thống mà chỉ bị bất hoạt đi. |
| Luồng sự kiện chính | 1. [IN] Người dùng chọn chức năng hủy đơn hàng.  2. [OUT] Hệ thống hiển thị giao diện hủy đơn hàng.  3. [IN] Người dùng tìm đơn hàng cần được hủy.  4. [OUT] Hệ thống xử lý, hiển thị thông tin đơn hàng và chức năng hủy đơn hàng.  5. [IN] Người dùng chọn hủy đơn hàng.  6. [OUT] Hệ thống yêu cầu lý do hủy đơn hàng.  7. [IN] Người dùng nhập lý do hủy đơn hàng.  8. [IN] Hệ thống ghi nhận lý do hủy đơn hàng.  9. [IN] Hệ thống ghi nhận thông tin đơn hàng bị hủy.  10. [OUT] Hệ thống thông báo đã hủy đơn hàng thành công.  11. Kết thúc UC. |
| Luồng sự kiện phụ | A1: Tại bước 4, Nếu không có đơn hàng nào được tìm thấy:   1. Hệ thống thông báo cho người dùng. 2. Quay lại bước 3.   A2: Tại bước 7, Nếu người dùng không nhập lý do hủy đơn hàng thì chuyển tới bước 9. |
| Biến thể |  |
| Use case include |  |
| Use case extend |  |



**UF15: Nhận số lượng về thông tin mặt hàng của các đối tác bán hàng được bán vào ngày hôm sau**

**Graphical user interface

Description automatically generated with medium confidence**

**UF16: Thống kê số liệu về các mặt hàng được bán ra theo đơn hàng mỗi ngày**

Chart

Description automatically generated with low confidence

**UF18: Thanh toán**

**Diagram

Description automatically generated**

**20. UF20: Lập Đơn đặt hàng.**

|  |  |
| --- | --- |
| Mã | UF20 |
| Tiêu đề | Lập đơn đặt hàng |
| Mô tả | Khách hàng lập đơn đặt hàng trên hệ thống |
| Tác nhân | Người dùng |
| Mục tiêu | Đặt được một đơn hàng |
| Tiền điều kiện | Người dùng đã đăng nhập với tư  cách Khách hàng |
| Hậu điều kiện | Đơn hàng được ghi nhận vào hệ thống |
| Dòng cơ bản | 1. Người dùng chọn lập đơn đặt hàng 2. Hệ thống hiển thị danh sách các mặt hàng 3. Người dùng chọn các món hàng và bỏ vào giỏ hàng 4. Hệ thống hiển thị tổng giá trị giỏ hàng (chưa tính ship) 5. Người dùng nhập thời gian nhận hàng 6. Người dùng chọn hình thức thanh toán 7. Thực hiện UC Thanh Toán Online 8. Hệ thống xác nhận lập đơn đặt hàng thành công. 9. Hệ thống hiển thị thông tin đơn hàng. |
| Dòng thay thế | A4: Nếu người dùng muốn chỉnh sửa đơn hàng thì chọn chỉnh sửa, quay lại bước 2  A6: Nếu người dùng chọn thanh toán bằng tiền mặt thì nhảy đến bước 8 |
| Use case include | Không có |
| Use case extend | Thanh toán online |

Diagram

Description automatically generated

**21. UF21 Theo dõi đơn hàng:**

|  |  |
| --- | --- |
| Mã | UF21 |
| Tiêu đề | **Theo dõi đơn hàng** |
| Mô tả | Khách hàng theo dõi trạng thái đơn hàng của mình |
| Tác nhân | Người dùng |
| Mục tiêu | Thấy được trạng thái đơn hàng |
| Tiền điều kiện | Người dùng đã đặt đơn hàng. |
| Hậu điều kiện | Người dùng thấy được trạng thái đơn hàng |
| Dòng cơ bản | 1. Người dùng chọn theo dõi đơn hàng 2. Hệ thống hiển thị danh sách đơn hàng chưa hoàn thành của người dùng 3. Người dùng chọn đơn hàng muốn xem trạng thái 4. Hệ thống hiển thị trạng thái đơn hàng |
| Dòng thay thế | A2: Nếu danh sách rỗng thì kết thúc use case |
| Use case include | Không có |
| Use case extend | Không có |

Diagram

Description automatically generated

**22. UF22 Cho phép hiệu chỉnh đơn hàng:**

|  |  |
| --- | --- |
| Mã | UF22 |
| Tên Use-Case | Cho phép hiệu chỉnh đơn hàng |
| Mô tả | Shipper cho phép Khách hàng thực hiện hiệu chỉnh đơn hàng. |
| Tác nhân | Shipper |
| Mục tiêu | Cho phép khách hàng chỉnh sửa được đơn hàng của mình. |
| Tiền điều kiện | Người dùng login vào hệ thống. Người dùng đã nhận giao đơn hàng. Đơn hàng chưa bị hủy. |
| Hậu điều kiện | Là kết quả cho UC Hiệu chỉnh đơn hàng. |
| Luồng sự kiện chính | 1. [IN] Người dùng chọn chức năng hiệu chỉnh đơn hàng.  2. [OUT] Hệ thống hiển thị giao diện hiệu chỉnh đơn hàng.  3. [IN] Người dùng tìm đơn hàng cần hiệu chỉnh.  4. [OUT] Hệ thống hiển thị thông tin đơn hàng và chức năng cho hiệu chỉnh đơn hàng.  5. [IN] Người dùng chọn cho phép hiệu chỉnh đơn hàng.  6. [IN] Hệ thống ghi nhận thông tin cho phép hiệu chỉnh đơn hàng.  7. [OUT] Hệ thống thông báo đã cập nhật thành công.  8. Kết thúc UC. |
| Luồng sự kiện phụ | A1: Tại bước 4, Nếu không có đơn hàng nào được tìm thấy:   1. Hệ thống thông báo cho người dùng. 2. Quay lại bước 3. |
| Biến thể |  |
| Use case include |  |
| Use case extend |  |



**23. UF23 Chấp nhận hiệu chỉnh đơn hàng:**

|  |  |
| --- | --- |
| Mã | UF23 |
| Tên Use-Case | Chấp nhận hiệu chỉnh đơn hàng |
| Mô tả | Shipper chấp nhận kết quả Khách hàng thực hiện hiệu chỉnh đơn hàng. |
| Tác nhân | Shipper |
| Mục tiêu | Hiệu chỉnh đơn hàng thành công, hoàn thành quá trình hiệu chỉnh đơn hàng. |
| Tiền điều kiện | Người dùng login vào hệ thống. Người dùng đã nhận giao đơn hàng. Đơn hàng chưa bị hủy. **Đơn hàng trước đó đã cho phép chỉnh sửa. Hệ thống đang đợi shipper chấp nhận hiệu chỉnh đơn hàng**. |
| Hậu điều kiện | Đơn hàng được hiệu chỉnh thành công hoặc thất bại. |
| Luồng sự kiện chính | 1. [IN] Người dùng chọn chức năng hiệu chỉnh đơn hàng.  2. [OUT] Hệ thống hiển thị giao diện hiệu chỉnh đơn hàng.  3. [IN] Người dùng tìm đơn hàng cần được chấp nhận hiệu chỉnh.  4. [OUT] Hệ thống xử lý, hiển thị thông tin đơn hàng và chức năng chấp nhận hiệu chỉnh đơn hàng.  5. [IN] Người dùng chọn chấp nhận hiệu chỉnh đơn hàng.  6. [IN] Hệ thống ghi nhận thông tin chấp nhận hiệu chỉnh đơn hàng.  7. [IN] Hệ thống cập nhật thông tin hiệu chỉnh đơn hàng cua khách hàng.  8. [OUT] Hệ thống thông báo đã cập nhật thành công.  9. Kết thúc UC. |
| Luồng sự kiện phụ | A1: Tại bước 4, Nếu không có đơn hàng nào được tìm thấy:   1. Hệ thống thông báo cho người dùng. 2. Quay lại bước 3. |
| Biến thể |  |
| Use case include |  |
| Use case extend |  |



**24. UF24 Đánh giá đơn hàng:**

|  |  |
| --- | --- |
| Mã | UF24 |
| Tên Use-Case | Đánh giá đơn hàng |
| Mô tả | Người dùng có thể đánh giá những đơn hàng liên quan tới mình. |
| Tác nhân | Shipper, Khách hàng |
| Mục tiêu | Đánh giá được 1 đơn hàng bằng sao hoặc comment. |
| Tiền điều kiện | Khách hàng đã đặt 1 đơn hàng. Shipper đã nhận đơn hàng. Đánh giá đúng đơn hàng liên quan với người dùng. Sau 1 ngày kể từ lúc đơn hàng giao đã giao hoặc bị hủy thì không cho thực hiện chức năng này. |
| Hậu điều kiện | Người dùng có thể xem được đánh giá của mình |
| Luồng sự kiện chính | 1. [IN] Người dùng chọn chức năng đánh giá đơn hàng.  2. [OUT] Hệ thống hiển thị giao diện đánh giá đơn hàng.  3. [IN] Người dùng tìm đơn hàng cần được đánh giá.  4. [OUT] Hệ thống xử lý, hiển thị thông tin đơn hàng và chức năng đánh giá đơn hàng.  5. [IN] Người dùng chọn đánh giá đơn hàng.  6. [OUT]Hệ thống hiển thị giao diện đơn hàng được đánh giá.  7. [IN] Người dùng thực hiện đánh giá bằng sao, comment.  8. [IN] Hệ thống ghi nhận đánh giá đơn hàng.  9. Kết thúc UC. |
| Luồng sự kiện phụ | A1: Tại bước 4, Nếu không có đơn hàng nào được tìm thấy:   1. Hệ thống thông báo cho người dùng. 2. Quay lại bước 3.   A2: Tại bước 6, nếu quá hạn đánh giá đơn hàng thì:   1. Thông báo cho người dùng biết đã quá hạn đánh giá đơn hàng. 2. Kết thúc UC.   A3: Tại bước 7, Nếu người dùng không comment hoặc sao thì kết thúc UC. |
| Biến thể |  |
| Use case include |  |
| Use case extend |  |

### Sequence Đánh giá đơn hàng



**Chương 4: Sơ đồ lớp mức phân tích**

1. **Sơ đồ lớp mức phân tích:**

**1.UF1-UF4:**

![Diagram

Description automatically generated with low confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4SRyRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjEwOjE0IDIyOjAwOjU1AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM2NgAAkpIAAgAAAAM2NgAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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| --- | --- | --- |
| Tên Bảng | Thuộc Tính | Mô Tả |
| Khách Hàng | Anh\_Nhan\_Dien | Ảnh chụp khuôn mặt của khách hàng |
| CMND/CCCD | Số CMND/CCCD |
| Dia\_Chi | Địa chỉ khác hàng. |
| Email | Email cá nhân của khách hàng. |
| Ma\_KH | Mã số khách hàng. |
| Ngay\_Sinh | Ngày tháng năm sinh của khách hàng. |
| SDT | Số điện thoại khách hàng. |
| Ho\_Ten | Họ và tên khách hàng |
| TK\_LK | Tài khoản khách hàng dùng để thanh toán. |

**2.UF5:**

Diagram

Description automatically generated

**3.UF6:**

Diagram

Description automatically generated

**4.UF7:**

Diagram

Description automatically generated

**5.UF8:**

Diagram

Description automatically generated

**6.UF9:**

Diagram

Description automatically generated

**UF ĐK Shipper:**

Diagram, text

Description automatically generated

**UF11:**

Diagram

Description automatically generated

**UF12 Hiệu chỉnh đơn hàng:**

|  |  |  |
| --- | --- | --- |
| Bảng | Thuộc tính | Mô tả |
| Shiper |  |  |
| ChiTietDonHang | 1. soluong | soluong có thể là kg, là đơn vị đếm. |
| ChiTietDonHangHC |  | Kế thừa ChiTietDonHang. Nơi lưu giá trị hiệu chỉnh của đơn hàng, chờ xác nhận của shipper sẽ thay thế chi tiết đơn hàng trước đó. |
| SanPham |  | - Bảng này sẽ có những mối quan hệ với những bảng bên đối tác bán |
| DonHang |  | - Lưu thông tin đơn hàng của khách hàng |
| 1. trangthaiDH | Có nhiều trạng thái đơn hàng:  - Treo (lúc khách hàng chỉnh sửa thì treo)  - Chưa có shipper nhận  - Shipper đang mua  - Shipper đã mua, đang giao  - Đã giao  - Đã hủy |
| 2. trangthaiHC | Trạng thái hiệu chỉnh đơn hàng. Cho biết đơn hàng được phép hiệu chỉnh chưa.  - 0: chua cho phep hieu chỉnh  - 1: cho phép hiệu chỉnh  - 2: khách hàng hiệu chỉnh hoàn thành.  - 0: hiệu chỉnh thành công. Shipper đã chấp nhận hiệu chỉnh. |
| 3. ngaytaoDH | - Ngày tạo đơn hàng  - Có thể dùng cho việc tìm kiếm đơn hàng để hiệu chỉnh… |
| 4. ngaycapnhatDH | - Khi đơn hàng được hiệu chỉnh thì sẽ cập nhật ngày hiệu chỉnh. Còn bình thường null.  - |
| KhachHang |  | - Người đặt đơn hàng |

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**UF13:**

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**UF14: Hủy đơn hàng**

|  |  |  |
| --- | --- | --- |
| Bảng | Thuộc tính | Mô tả |
| Shiper |  |  |
| DonHang | 1. trangthaidh | - Thuộc tính trạng thái đơn hàng sẽ cho biết đơn hàng đã bị hủy hay chưa hoặc những trạng thái khác. |
| 2. nguoihuy | - Mô tả người hủy đơn hàng là ai: khách hàng, shipper, admin |
| 3. lydohuy | - Mô tả lý do người hủy hủy đơn hàng. |
| KhachHang |  |  |

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**UF15:**

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**UF16:**

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**UF18:**

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**UF20:**

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**UF21 Theo dõi đơn hàng:**

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**UF22: Chl phép hiệu chỉnh đơn hàng**

**Giống UF12 Hiệu chỉnh đơn hàng**

**UF23: Chấp nhận hiệu chỉnh đơn hàng**

**Giống UF12 Hiệu chỉnh đơn hàng**

**UF24: Đánh giá đơn hàng**

|  |  |  |
| --- | --- | --- |
| Bảng | Thuộc tính | Mô tả |
| Shiper |  |  |
| DonHang | 1. trangthaidh | - Thuộc tính trạng thái đơn hàng sẽ cho biết đơn hàng đã bị hủy hay chưa hoặc những trạng thái khác. |
| KhachHang |  |  |
| DanhGiaDonHang |  |  |
| 1. aidanhgia | Loại người dùng bị đánh giá: shipper hoặc khách hàng. |
| 2. comment | mô tả đánh giá |
| 3. sao | Đánh giá cấp bậc vi phạm (1 đến 5 sao) |
| 4. IDDonHang | Khóa ngoại tham chiếu tới bảng DonHang |

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