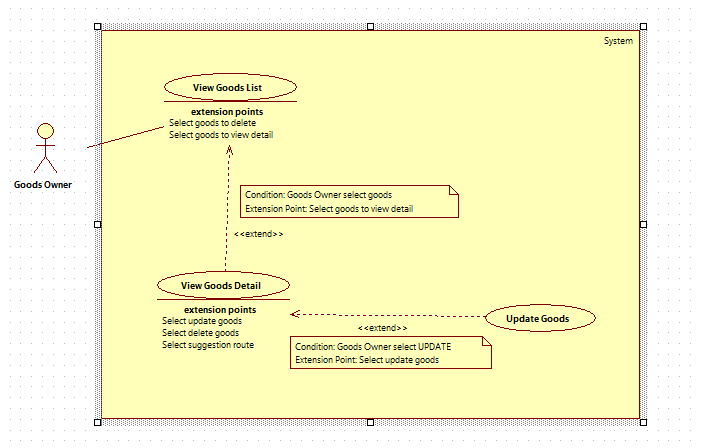
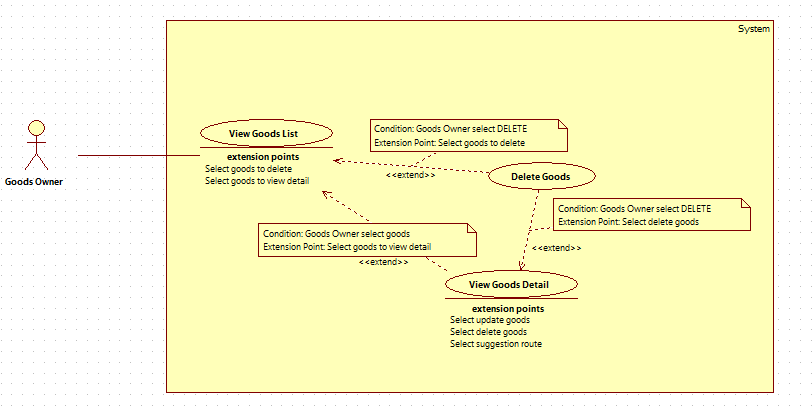


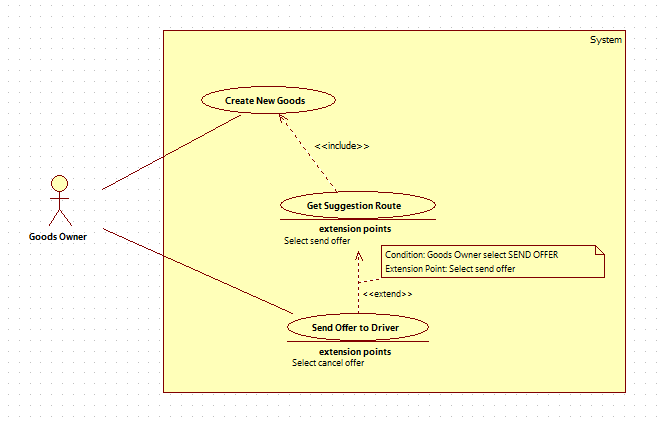
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| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** | 2.0 |
| **Use Case Name** | Create New Goods | | |
| **Author** | ThinhDP | | |
| **Date** |  | **Priority** | High |
| **Actor:** Goods owner  **Summary:** This use case allows goods owner to create new goods.  **Goal:** Add new goods to database  **Triggers:** Goods owner click on “Đăng hàng” button in action bar.  **Preconditions:**   * User must log in to the system with role goods owners.   **Post Conditions:**   * **Success:** New goods will be added to database. Success message will be shown. * **Fail:** Error message will be shown.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Goods owner clicks “Đăng hàng” button. | System navigates to “Tạo hàng” page.   * Loại hàng: drop down list, required, (Hàng thực phẩm, Hàng đông lạnh, Hàng dễ vỡ, Hàng dễ cháy nổ). * Khối lượng (kg): textbox, min length: 1, max length: 5, min value: 500, max value: 45000, required. * Ngày có thể nhận hàng: datepicker, date range: current date to current date + 1 month, required. * Ngày có thể giao hàng: datepicker, date range: pickup date to current date + 1 month, required * Địa điểm nhận hàng: textbox, min length: 1, max length: 100, required. * Địa điểm giao hàng: textbox, min length: 1, max length: 100, required. * Ghi chú: textbox, min length: 1, max length: 250, not required * Giá tiền (nghìn đồbg): textbox, min length:1, max length: 10, required * Tạo hàng: button | | 2 | Input field.  [Alternative 1,2] |  | | 3 | Click on “Tạo hàng” button | Confirmation dialog will be shown  [Exception 1,2,3,4,5,6,7,8,9]  [Alternative 3,4] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Respone | | 1.1 | Goods owner clicks on Map button next to“Địa điểm nhận hàng” | System navigates to “Chi tiết bản đồ” page:   * Google map * Đồng ý: button | | 1.2 | Owner chooses appropriate position | System will update new location | | 1.3 | Click on “Đồng ý” | Correct location will be updated for pickup address. | | 2.1 | Goods owner clicks on Map button next to“Địa điểm giao hàng” | System navigates to “Chi tiết bản đồ” page:   * Google map * Đồng ý: button | | 2.2 | Owner chooses appropriate position | System will update new location. | | 2.3 | Click on “Đồng ý” button | Correct location will be updated for delivery address. | | 3 | Click on “Tạo” button | New goods will be added to database and show “Hàng tạo thành công”. | | 4 | Click on “Hủy” button | Confirm dialog will be canceled. New goods isn’t created. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Click on “Tạo hàng” button | “Khối lượng” is empty or longer than 5 words. Show error message: “Khối lượng giới hạn từ 1 đến 5 ký tự”. | | 2 | Click on “Tạo hàng” button | “Ngày có thể nhận hàng” is empty. Show error message: “Vui lòng chọn ngày gửi hàng”. | | 3 | Click on “Tạo hàng” button | “Ngày có thể giao hàng” is empty. Show error message: “Vui lòng chọn ngày giao hàng”. | | 4 | Click on “Tạo hàng” button | “Địa điểm nhận hàng” is empty or longer than 100 words. Show error message: “Địa điểm nhận hàng giới hạn từ 1 đến 100 ký tự”. | | 5 | Click on “Tạo hàng” button | “Địa điểm giao hàng” is empty or longer than 100 words. Show error message: “Địa điểm giao hàng giới hạn từ 1 đến 100 ký tự”. | | 6 | Click on “Tạo hàng” button | “Giá tiền” is empty or longer than 10 words. Show error message: “Giá tiền giới hạn từ 1 đến 10 ký tự”. | | 7 | Click on “Tạo hàng” button | “Khối lượng” value is smaller than 1 and bigger than 45000. Show error message: “Khối lượng giới hạn từ 1 đến 45000 kg”. | | 8 | Click on “Tạo hàng” button | “Ngày có thể giao hàng” is earlier than “Ngày có thể nhận hàng”. Show error message: “Ngày có thể nhận hàng phải sớm hơn ngày có thể giao hàng”. | | 9 | Click on “Tạo hàng” button | “Ghi chú” is empty or longer than 250 words. Show error message: “Ghi chú chỉ có giới hạn từ 1 đến 250 ký tự”. |   **Relationships:** N/A  **Business Rules:**   * Goods are added to database with active status. * System will notifies owner if the goods is added successfully or not. * Possible delivery date must be later than possible pickup date. When user chooses possible pickup date, possible delivery date range will be limited from possible pickup date to one month later. * Goods is available before possible delivery date ends. After that, goods will be inactive. * “Khối lượng” is weighted by kg and limited from 1 to 45000. * “Giá tiền” is calculated by thousand. When weight, pickup address and delivery address is entered, system will suggest price to owner. * Owner can edit marker if marker is not correct. If owner does not edit marker, the address that owner input will be used as marker. * When owner enters address, system will suggest address to owner for quicker input. | | | |



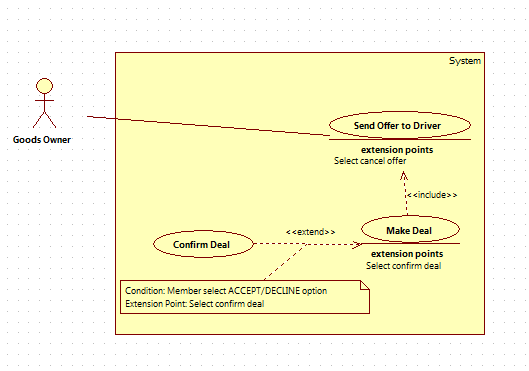
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| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** | 2.0 |
| **Use Case Name** | Update Goods | | |
| **Author** | ThinhDP | | |
| **Date** |  | **Priority** | High |
| **Actor:** Goods owner  **Summary:** This use case allows goods owner to update existed goods  **Goal:** Update existed goods  **Triggers:** Goods owner click on a goods in “Hàng hóa” tab  **Preconditions:**   * Goods exists in database. * User must log in to the system with role goods owners. * Goods is not in deal.   **Post Conditions:**   * **Success:** Goods will be updated with new information * **Fail:** Goods will not be updated. Error message will be shown.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Goods owner click on a goods in “Hàng hóa” tab, then swipe to “Thông tin” tab. | System navigates to add goods page.   * Loại hàng: drop down list, required, (Hàng thực phẩm, Hàng đông lạnh, Hàng dễ vỡ, Hàng dễ cháy nổ). * Khối lượng (kg): textbox, min length: 1, max length: 5, min value: 500, max value: 45000, required. * Ngày có thể nhận hàng: datepicker, date range: current date to current date + 1 month, required. * Ngày có thể giao hàng: datepicker, date range: pickup date to current date + 1 month, required * Địa điểm nhận hàng: textbox, min length: 1, max length: 100, required. * Địa điểm giao hàng: textbox, min length: 1, max length: 100, required. * Ghi chú: textbox, min length: 1, max length: 250, not required * Giá tiền (nghìn đồng): textbox, min length:1, max length: 10, required * Cập nhật: button * Xóa: button | | 2 | Modify field.  [Alternative 1,2] |  | | 3 | Click on “Cập nhật” button | Confirmation dialog will be shown  [Exception 1,2,3,4,5,6,7,8,9]  [Alternative 3,4] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1.1 | Goods owner clicks on Map button next to“Địa điểm nhận hàng” | System navigates to “Địa điểm” page:   * Google map * Đồng ý: button | | 1.2 | Owner drags marker to appropriate position | System will update new marker’s latitude and longitude | | 1.3 | Click on “Đồng ý” | Marker position will be saved to database. | | 2.1 | Goods owner clicks on Map button next to“Địa điểm giao hàng” | System navigates to “Địa điểm” page:   * Google map * Đồng ý: button | | 2.2 | Owner drags marker to appropriate position | System will update new marker’s latitude and longitude | | 2.3 | Click on “Đồng ý” button | Marker position will be saved to database. | | 3 | Click on “Cập nhật” button | Goods will be updated and show “Hàng cập nhật thành công”. | | 4 | Click on “Hủy” button | Confirmation dialog will be canceled and no change is made. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Click on “Tạo hàng” button | “Khối lượng” is empty or longer than 5 words. Show error message: “Khối lượng giới hạn từ 1 đến 5 ký tự”. | | 2 | Click on “Tạo hàng” button | “Ngày có thể nhận hàng” is empty. Show error message: “Vui lòng chọn ngày gửi hàng”. | | 3 | Click on “Tạo hàng” button | “Ngày có thể giao hàng” is empty. Show error message: “Vui lòng chọn ngày giao hàng”. | | 4 | Click on “Tạo hàng” button | “Địa điểm nhận hàng” is empty or longer than 100 words. Show error message: “Địa điểm nhận hàng giới hạn từ 1 đến 100 ký tự”. | | 5 | Click on “Tạo hàng” button | “Địa điểm giao hàng” is empty or longer than 100 words. Show error message: “Địa điểm giao hàng giới hạn từ 1 đến 100 ký tự”. | | 6 | Click on “Tạo hàng” button | “Giá tiền” is empty or longer than 10 words. Show error message: “Giá tiền giới hạn từ 1 đến 10 ký tự”. | | 7 | Click on “Tạo hàng” button | “Khối lượng” value is smaller than 1 and bigger than 45000. Show error message: “Khối lượng giới hạn từ 1 đến 45000 kg”. | | 8 | Click on “Tạo hàng” button | “Ngày có thể giao hàng” is earlier than “Ngày có thể nhận hàng”. Show error message: “Ngày có thể nhận hàng phải sớm hơn ngày có thể giao hàng”. | | 9 | Click on “Tạo hàng” button | “Ghi chú” is empty or longer than 250 words. Show error message: “Ghi chú chỉ có giới hạn từ 1 đến 250 ký tự”. |   **Relationships:** extended by View Goods Detail  **Business Rules:**   * Goods must exist in database. * When goods is dealing with other routes, error message will be shown: “Hàng hiện không thể cập nhật”. * System will notifies owner if the goods is updated successfully or not. * Possible delivery date must be later than possible pickup date. When user chooses possible pickup date, possible delivery date range will be limited from possible pickup date to one month later. * “Khối lượng” is weighted by kg and limited from 1 to 45000. * “Giá tiền” is calculated by thousand. When weight, pickup address and delivery address is entered, system will suggest price to owner. * Owner can edit marker if marker is not correct. If owner does not edit marker, the address that owner input will be used as marker. * When owner enters address, system will suggest address to owner for quicker input. | | | |



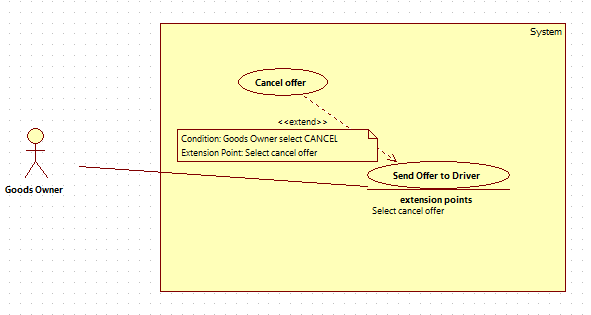
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| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** | 2.0 |
| **Use Case Name** | Delete Goods | | |
| **Author** | ThinhDP | | |
| **Date** |  | **Priority** | High |
| **Actor:** Goods owner  **Summary:** This use case allows goods owner to delete goods.  **Goal:** Goods will be removed from the system.  **Triggers:** Goods owner click “Xóa hàng” button in goods information page  **Preconditions:**   * User must log in to the system with role goods owners. * Goods exists in the system. * Goods is not in deal with any drivers.   **Post Conditions:**   * **Success:** Goods will be deleted from database * **Fail:** Goods is not deleted. Error message will be shown   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Goods owner click on a goods in “Hàng hóa” tab, then swipe to “Thông tin” tab. Goods owner clicks “Xóa” button. | * Confirmation dialog will be shown |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Click on “Hủy” button | Pop-up is turn-off. Goods is not deleted |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Click on “Đồng ý” button | Goods is not deleted. Show error message: “Xóa hàng thất bại. Xin thử lại sau” |   **Relationships:** extended by View Goods List, extended by View Goods Detail  **Business Rules:**   * Goods must exist in database. * When goods is deleted, its status will be changed to inactive. * When goods is dealing with other routes, it cannot be deleted. When owner try to delete, it will show error message. | | | |



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| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** | 2.0 |
| **Use Case Name** | Send offer to driver | | |
| **Author** | ThinhDP | | |
| **Date** |  | **Priority** | High |
| **Actor:** Goods owner  **Summary:** This use case allows goods owner to send new deal to truck driver.  **Goal:** To start a new deal with truck driver.  **Triggers:** Goods owner clicks “Đề nghị” button in truck driver route’s information page.  **Preconditions:**   * User must log in to the system with role goods owners. * Goods and route is active. * Your goods is not dealing with specific route.   **Post Conditions:**   * **Success:** New deal is sent to truck driver. Success message is shown * **Fail:** Error message is shown   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | In route suggestion page, owner will chooses a route he wants to deal. | System navigates to truck driver route’s information page. | | 2 | Owner clicks on “Gửi đề nghị” button | Confirmation dialog is shown.  [Alternative 1,2] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Goods owner clicks “Đồng ý” button | A new deal is sent to truck driver. Success message is shown: “Đề nghị đã được gửi”  [Exception 1] | | 2 | Goods owner clicks “Hủy” button | Confirmation dialog is canceled. No deal is sent. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Owner clicks on “Đồng ý” button | New deal is not sent. Show error message: “Đề nghị đã không được gửi. Xin thử lại sau” |   **Relationships:** extended by View Suggestion Route  **Business Rules:**   * Goods owner can send deal to as many driver as he wants. * System must make sure both goods and route are available before offer is sent. If route is not available, system will notify owner. * When route’s weight limit is up and goods owner sends new deal offer, error message will be shown. * New offer is saved to database with pending state. If offer is sent, system will notify driver about new deal. * After owner sends offer to truck driver route, the route will be removed from suggestion list. | | | |



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| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** | 2.0 |
| **Use Case Name** | Confirm deal | | |
| **Author** | ThinhDP | | |
| **Date** |  | **Priority** | High |
| **Actor:** Goods owner  **Summary:** This use case allows goods owner to accept or decline a deal sent from truck driver.  **Goal:** The deal will be accepted or declined by owner.  **Triggers:** Goods owner click “Chấp nhận” or “Từ chối” button.  **Preconditions:**   * Goods owner must log in to the system with role goods owners. * The deal is sent from owner and has pending status.   **Post Conditions:**   * **Success:** The deal sent from truck driver is accepted or declined. Success message will be shown. * **Fail:** Error message is shown   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Goods owner clicks “Chấp nhận” button.  [Alternative 1] | Confirmation dialog is shown  [Alternative 2,3] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Goods owner clicks “Từ chối” button. | Confirmation dialog is shown  [Alternative 4,5] | | 2 | Goods owner clicks “Đồng ý” button | Deal is accepted. Message is shown: “Đề nghị đã được chấp nhận”.  [Exception 1] | | 3 | Goods owner clicks “Hủy” button | Confirmation dialog is canceled. Deal is not accepted. | | 4 | Goods owner clicks “Đồng ý” button | Deal is declined. Message is shown: “Đề nghị đã được từ chối”.  [Exception 2] | | 5 | Goods owner clicks “Hủy” button | Confirmation dialog is canceled. Deal is not declined. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Goods owner clicks “Đồng ý” button. | Deal is still not accepted. Error message is shown: “Đề nghị vẫn chưa được chấp nhận. Xin thử lại sau”. | | 2 | Goods owner clicks “Đồng ý” button. | Deal is still not declined. Error message is shown: “Đề nghị vẫn chưa được từ chối. Xin thử lại sau” |   **Relationships:** extended by Make Deal  **Business Rules:**   * When deal is accepted, system will change status to “accepted”, deal will be added to Order table. Goods will be removed from “Hàng hóa” tab and will be found as order in “Đơn hàng” tab. * When deal is declined, system will changed status to “declined” and deal will be removed from “Giao dịch” tab. * When deal is accepted or declined, success message will be shown. When error happens, error message will be shown. * When owner accepts deal, system will check if deal is cancelled by driver or not. If yes, error message will be shown to owner. * If driver’s weight limit is up and owner accepts deal, error message will be shown to owner. * When owner accepts deal, deals between owner and other drivers will either be declined or canceled. * System will notify driver when deal is accepted or declined. | | | |



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| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** | 2.0 |
| **Use Case Name** | Cancel Offer | | |
| **Author** | ThinhDP | | |
| **Date** |  | **Priority** | High |
| **Actor:** Goods owner  **Summary:** This use case allows goods owner to cancel the deal he sent to driver.  **Goal:** The deal will be cancel.  **Triggers:** Goods owner click “Hủy đề nghị” in deal information page.  **Preconditions:**   * Goods owner must log in to the system with role goods owners. * Deal is sent from driver and has pending status.   **Post Conditions:**   * **Success:** A deal sent by owner will be cancel. Success message will be shown. * **Fail:** Error message is shown   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Goods owner clicks “Hủy đề nghị” button. | Confirmation dialog is shown.  [Alternative 1,2] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Respone | | 1 | Goods owner clicks “Đồng ý” button. | Offer is cancelled. Success message is shown: “Đề nghị đã được hủy.”  [Exception 1] | | 2 | Goods owner clicks “Hủy” button. | Confirmation dialog is canceled. Deal is not canceled. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Goods owner click “Đồng ý” button | Deal is not canceled. Error message is shown: “Đề nghị vẫn chưa được hủy. Xin thử lại sau” |   **Relationships:** extended by Send Offer To Driver  **Business Rules:**   * Owner can only cancels deal when it’s not accepted by driver yet. If deal is already accepted, error message will be shown to owner. * When deal is cancel, it will be removed from “Giao dịch” tab * When deal is cancel, driver will be notified about it and success message will be shown to owner. Otherwise, error message will be shown to owner. * When deal is canceled, system will changed deal status to “canceled”. | | | |

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| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** | 2.0 |
| **Use Case Name** | Report Order | | |
| **Author** | ThinhDP | | |
| **Date** |  | **Priority** | High |
| **Actor:** Goods owner  **Summary:** This use case allows goods owner to report missing goods or damaged goods.  **Goal:** Order’s status will be changed to “reported”.  **Triggers:** Goods owner click “Phản hồi đơn hàng” in order information page.  **Preconditions:**   * Goods owner must log in to the system with role goods owners. * Order’s status is “accept” and current time is in 3 days range starting from goods’ possible delivery date.   **Post Conditions:**   * **Success:** Order’s status will be changed to “reported”. Success message will be shown. * **Fail:** Error message is shown   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Goods owner clicks “Phản hồi đơn hàng” button. | Confirmation dialog is shown.  [Alternative 1,2] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Respone | | 1 | Goods owner clicks “Đồng ý” button. | Order will be reported. Success message is shown: “Đơn hàng đã được phản hồi thành công”.  [Exception 1] | | 2 | Goods owner clicks “Hủy” button. | Confirmation dialog is canceled. Order is not reported. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Goods owner click “Đồng ý” button | Order is not reported. Error message is shown: “Đề nghị vẫn chưa được hủy. Xin thử lại sau” |   **Relationships:** N/A  **Business Rules:**   * When owner reports order successfully, order’s status will be changed to “reported”. Otherwise, error message will be show. * After order is reported, system will notified driver about it. * Owner can only report an order when order’s status is “accept” and current time is in 3 days range starting from possible delivery date. * When staff confirms report is correct, owner will get refund money. If report is false, staff can changed order’s status back to “accept”. * System will notifies owner to report order when it’s appropriate time. | | | |

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| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** | 2.0 |
| **Use Case Name** | Counter Offer | | |
| **Author** | ThinhDP | | |
| **Date** |  | **Priority** | High |
| **Actor:** Goods owner  **Summary:** This use case allows goods owner to counter the deal that was sent from driver.  **Goal:** A counter deal will be sent to driver.  **Triggers:** Goods owner click “Trả giá đề nghị” in deal information page.  **Preconditions:**   * Goods owner must log in to the system with role goods owners. * Deal is sent from driver and has pending status.   **Post Conditions:**   * **Success:** A counter deal will be sent to owner. Success message will be shown. * **Fail:** Error message is shown   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Goods owner clicks “Hủy đề nghị” button. | Confirmation dialog is shown.  [Alternative 1,2] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Respone | | 1 | Goods owner clicks “Đồng ý” button. | Offer is cancelled. Success message is shown: “Đề nghị đã được hủy.”  [Exception 1] | | 2 | Goods owner clicks “Hủy” button. | Confirmation dialog is canceled. Deal is not canceled. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Goods owner click “Đồng ý” button | Deal is not canceled. Error message is shown: “Đề nghị vẫn chưa được hủy. Xin thử lại sau” |   **Relationships:** extended by Send Offer To Driver  **Business Rules:**   * System must make sure both goods and route are available before counter deal is sent. If route is not available, system will notify owner. * When route’s weight limit is up and goods owner sends counter deal, error message will be shown. * New offer is saved to database with pending state. If offer is sent, system will notify driver about new deal. * After owner sends offer to truck driver route, the route will be removed from suggestion list. | | | |