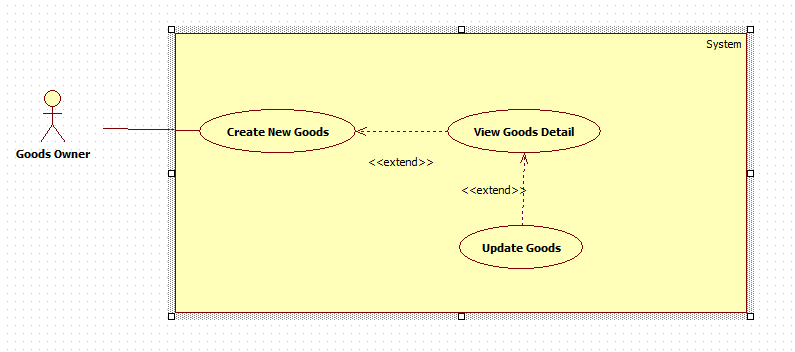
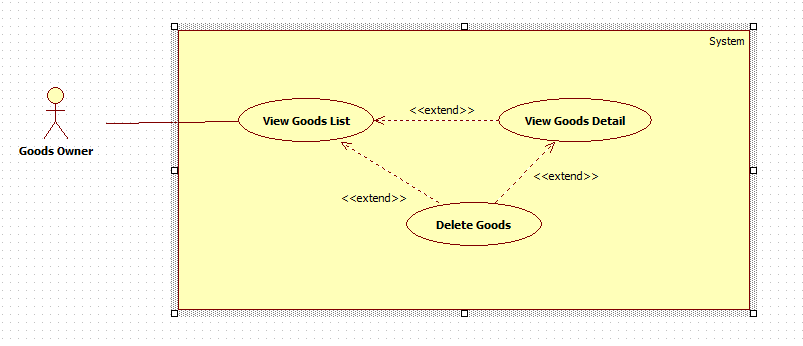


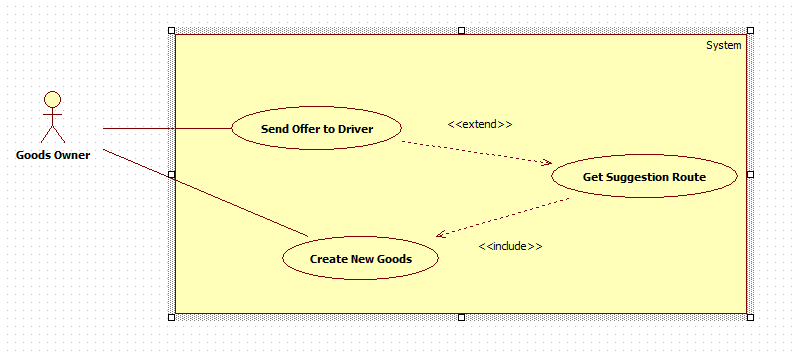
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| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** | 2.0 |
| **Use Case Name** | Create New Goods | | |
| **Author** | ThinhDP | | |
| **Date** |  | **Priority** | High |
| **Actor:** Goods owner  **Summary:** This use case allows goods owner to post 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:** Goods will not be added. 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, (Thức ăn, Nội thất, Gia dụng, Vật liệu). * Khối lượng: textbox, min length: 1, max length: 5, min value: 1, max value: 90000, required. * Ngày gửi hàng: datepicker, date range: current date to current date + 1 month, required. * Thời gian gửi hang: timepicker, min time: current time + 6 hour, required * Ngày giao hang: datepicker, date range: pickup date to pick up date + 15 days, required * Thời gian giao hàng: timepicker, 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: 150, not required * Giá tiền: textbox, min length:1, max length: 10, required * Tạo hàng: button | | 2 | Input field.  [Alternative 1] |  | | 3 | Click on “Tạo hàng” button | New goods will be added to database and show “Bạn đã thêm hàng thành công”.  [Exception 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Goods owner clicks on “Địa điểm nhận hàng” textbox | System navigates to “Địa điểm” page:   * Địa chỉ: textbox, max length: 100, required * Google map * Đồng ý: button | | 2 | Owner inputs textbox | System will show marker of address on map | | 3 | Owner moves marker to appropriate position |  | | 4 | Click on “Đồng ý” | Marker position will be saved to database, “Địa chỉ” text will be saved “Địa điểm nhận hàng” textbox. | | Step | Actor Action | System Respone | | 1 | Goods owner clicks on “Địa điểm giao hàng” textbox | System navigates to “Địa điểm” page:   * Địa chỉ: textbox, max length: 100, required * Google map * Đồng ý: button | | 2 | Owner inputs textbox | System will show marker of address on map | | 3 | Owner moves marker to appropriate position |  | | 4 | Click on “Đồng ý” | Marker position will be saved to database, “Địa chỉ” text will be saved “Địa điểm giao hàng” textbox. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Click on “Tạo hàng” button | New goods is not created. Show error message: “Hệ thống không thể thêm hàng hóa”. | | 2 | “Loại hàng” is empty | Show error message: “Vui lòng chọn loại hàng”. | | 3 | “Khối lượng” is empty | Show error message: “Vui lòng điền khối lượng của hàng”. | | 4 | “Thời gian gửi hàng” is empty | Show error message: “Vui lòng chọn ngày gửi hàng”. | | 5 | “Thời gian gửi hàng” is empty | Show error message: “Vui lòng chọn giờ gửi hàng”. | | 6 | “Thời gian giao hàng“ is empty | Show error message: “Vui lòng chọn ngày giao hàng”. | | 7 | “Thời gian giao hàng” is empty | Show error message: “Vui lòng chọn giờ giao hàng”. | | 8 | “Địa điểm nhận hàng” is empty | Show error message: “Vui lòng chọn địa điểm gửi hàng”. | | 9 | “Địa điểm giao hàng” is empty | Show error message: “Vui lòng chọn địa điểm giao hàng”. | | 10 | “Giá tiền” is empty | Show error message: “Vui long chọn giá tiền” | | 11 | Not input “Khối lượng” with number | Show error message: “Vui lòng điền khối lượng bằng số”. | | 12 | “Thời gian nhận hàng” is later than current date | Show error message: “Vui lòng chọn ngày gửi hàng trễ hơn ngày hôm nay”. | | 13 | “Thời gian giao hàng” is later than “Thời gian nhận hàng” | Show error message: “Vui lòng chọn ngày giao hàng trễ hơn ngày gửi hàng”. | | 14 | “Ghi chú” is longer than 100 words | Show error message: “Ghi chú chỉ có giới hạn 100 ký tự”. | | 15 | “Khối lượng” is longer than 3 words | Show error message: “Khối lượng chỉ có giới hạn 3 ký tự”. | | 16 | “Khối lượng” is bigger than 999 | Show error message: “Khối lượng phải nhỏ hơn 999”. | | 17 | “Địa điểm nhận hàng” is longer than 50 words | Show error message: “Địa điểm nhận hàng chỉ có giới hạn 50 ký tự”. | | 18 | “Địa điểm giao hàng” is longer than 50 words | Show error message: “Địa điểm giao hàng chỉ có giới hạn 50 ký tự”. | | 19 | Not “Giá tiền” with number | Show error message: “Vui lòng điền giá tiền bằng số” | | 20 | “Giá tiền” is longer than 10 words | Show error message: “Giá tiền chỉ có giới hạn 10 ký tự” |   **Relationships:** N/A  **Business Rules:**   * Goods is added to database with active state. * System will notified owner if the goods is added successfully or not. * Delivery date must be later than pickup date, and both of them must be later than current date. * “Khối lượng” is weighted by ton. * “Giá tiền” is calculated by thousand. * Owner can edit marker if marker is not correct. | | | |



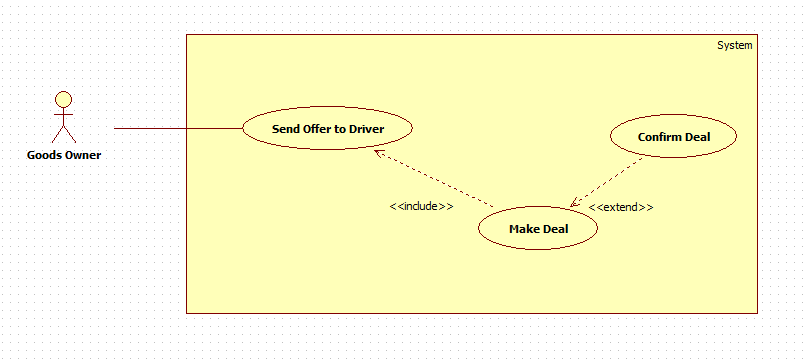
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| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** | 2.0 |
| **Use Case Name** | Update Goods | | |
| **Author** | ThinhDP | | |
| **Date** |  | **Priority** | High |
| **Actor:** Goods owner  **Summary:** This use case allows 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. * Goods owner 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. * Khối lượng: textbox, min length: 1, max length: 3, min value: 1, max value: 999, required. * Thời gian gửi hàng: datepicker, timepicker, date range: current date – 1/1/2099, required. * Thời gian giao hàng: datepicker, timepicker, date range: thời gian gửi hàng – 1/1/2099, required. * Địa điểm nhận hàng: textbox, min length: 1, max length: 50, required. * Địa điểm giao hàng: textbox, min length: 1, max length: 50, required. * Ghi chú: textbox, min length: 1, max length: 100, not required * Giá tiền: textbox, max length: 10, requiredCập nhật: button * Xóa: button | | 2 | Modify field.  [Alternative 1] |  | | 3 | Click on “Cập nhật” button | New goods will be added to database and show “Bạn đã cập nhật hàng thành công”.  [Exception 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Goods owner clicks on “Địa điểm nhận hàng” textbox | System navigates to “Địa điểm” page:   * Địa chỉ: textbox, max length: 100, required * Google map * Đồng ý: button | | 2 | Owner inputs textbox | System will show marker of address on map | | 3 | Owner moves marker to appropriate position |  | | 4 | Click on “Đồng ý” | Marker position will be saved to database, “Địa chỉ” text will be saved “Địa điểm nhận hàng” textbox. | | Step | Actor Action | System Respone | | 1 | Goods owner clicks on “Địa điểm giao hàng” textbox | System navigates to “Địa điểm” page:   * Địa chỉ: textbox, max length: 100, required * Google map * Đồng ý: button | | 2 | Owner inputs textbox | System will show marker of address on map | | 3 | Owner moves marker to appropriate position |  | | 4 | Click on “Đồng ý” | Marker position will be saved to database, “Địa chỉ” text will be saved “Địa điểm giao hàng” textbox. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Click on “Tạo hàng” button | New goods is not created. Show error message: “Hệ thống không thể thêm hàng hóa”. | | 2 | “Loại hàng” is empty | Show error message: “Vui lòng chọn loại hàng”. | | 3 | “Khối lượng” is empty | Show error message: “Vui lòng điền khối lượng của hàng”. | | 4 | “Thời gian gửi hàng” is empty | Show error message: “Vui lòng chọn ngày gửi hàng”. | | 5 | “Thời gian gửi hàng” is empty | Show error message: “Vui lòng chọn giờ gửi hàng”. | | 6 | “Thời gian giao hàng“ is empty | Show error message: “Vui lòng chọn ngày giao hàng”. | | 7 | “Thời gian giao hàng” is empty | Show error message: “Vui lòng chọn giờ giao hàng”. | | 8 | “Địa điểm nhận hàng” is empty | Show error message: “Vui lòng chọn địa điểm gửi hàng”. | | 9 | “Địa điểm giao hàng” is empty | Show error message: “Vui lòng chọn địa điểm giao hàng”. | | 10 | “Giá tiền” is empty | Show error message: “Vui long chọn giá tiền” | | 11 | Not input “Khối lượng” with number | Show error message: “Vui lòng điền khối lượng bằng số”. | | 12 | “Thời gian nhận hàng” is later than current date | Show error message: “Vui lòng chọn ngày gửi hàng trễ hơn ngày hôm nay”. | | 13 | “Thời gian giao hàng” is later than “Thời gian nhận hàng” | Show error message: “Vui lòng chọn ngày giao hàng trễ hơn ngày gửi hàng”. | | 14 | “Ghi chú” is longer than 100 words | Show error message: “Ghi chú chỉ có giới hạn 100 ký tự”. | | 15 | “Khối lượng” is longer than 3 words | Show error message: “Khối lượng chỉ có giới hạn 3 ký tự”. | | 16 | “Khối lượng” is bigger than 999 | Show error message: “Khối lượng phải nhỏ hơn 999”. | | 17 | “Địa điểm nhận hàng” is longer than 50 words | Show error message: “Địa điểm nhận hàng chỉ có giới hạn 50 ký tự”. | | 18 | “Địa điểm giao hàng” is longer than 50 words | Show error message: “Địa điểm giao hàng chỉ có giới hạn 50 ký tự”. | | 19 | Not “Giá tiền” with number | Show error message: “Vui lòng điền giá tiền bằng số” | | 20 | “Giá tiền” is longer than 10 words | Show error message: “Giá tiền chỉ có giới hạn 10 ký tự” |   **Relationships:** extended by View Goods Detail  **Business Rules:**   * Goods must exist in database. * Goods is not in deal with any drivers. * Delivery date must be later than pickup date, and both of them must be later than current date. * “Khối lượng” is weighted by ton. * “Giá tiền” is calculated by thousand. * Owner can edit marker if marker is not correct. | | | |



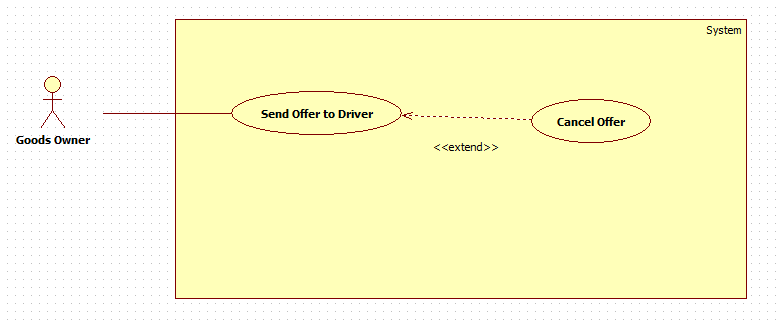
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| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** | 2.0 |
| **Use Case Name** | Delete Goods | | |
| **Author** | ThinhDP | | |
| **Date** |  | **Priority** | High |
| **Actor:** Goods owner  **Summary:** This use case allows 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:**   * Goods owner 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 clicks “Xóa hàng” button. | System shows comfirm pop-up: “Bạn có muốn xóa hàng không?”   * Đồng ý: button * Hủy: button | | 2 | Click on “Đồng ý” button.  [Exception 1] | Goods is deleted from database |   **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: “Chức năng hiện đang bị lỗi. Xin thử lại sau” |   **Relationships:** extended by View Goods List, extended by View Goods Detail  **Business Rules:**   * Goods must exists in the system. * Goods can only be deleted when it is not in deal with any drivers. * Goods status is changed to inactive | | | |



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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’s information page.  **Preconditions:**   * Goods owner must log in to the system with role goods owners. * Driver is not in deal with you   **Post Conditions:**   * **Success:** New deal is sent to truck driver * **Fail:** Deal is not sent. Error message is shown   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | In driver suggestion page, owner click on a driver he wants to deal | System navigates to truck driver’s information page. | | 2 | Owner clicks on “Đề nghị” button  [Alternative 1] | A new deal is sent to truck driver. Success message is shown: “Đề nghị đã được gửi”  [Exception 1] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Goods owner click “Hủy” button | System returns to previous page. No deal is sent. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Owner clicks on “Đề nghị giao dịch” 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. * New offer is saved to database with pending state. * If offer is sent, system will notify driver about new deal. * If notification is failed to send, system will resent it one more time. If notification is failed to send twice, driver 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 still exists.   **Post Conditions:**   * **Success:** The deal sent from truck driver is accepted * **Fail:** Deal is not accepted. Error message is shown   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Goods owner clicks “Chấp nhận” button.  [Alternative 1] | Deal is accepted. Message is shown: “Đề nghị đã được chấp nhận”.  [Exception 1] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Goods owner clicks “Từ chối” button. | Deal is declined. Message is shown: “Đề nghị đã được từ chối”.  [Exception 2] |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Goods owner click “Chấp nhận” 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 “Từ chối” 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. * When deal is declined, system will changed status to declined. * When deal is accepted or decline, success message will be shown. When error happens, error message will be shown. * System owner accepts deal, system will check if deal is cancelled or not. If yes, error message will be shown to owner. * 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. * Driver hasn’t accepted the deal yet.   **Post Conditions:**   * **Success:** A deal sent by owner will be cancel * **Fail:** Deal is not cancel. Error message is shown   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Goods owner clicks “Hủy đề nghị” button. | System show confirmation message: “Bạn có muốn hủy đề nghị không?” | | 2 | Goods owner clicks “Có” button  [Alternative 1] | Offer is cancelled. Success message is shown: “Bạn đã hủy đề nghị thành công.”  [Exception 1] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Respone | | 1 | Goods owner clicks “Không” button. | Offer is not cancelled. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Goods owner click “Hủy đề nghị” button | Deal is still not accepted. Error message is shown: “Đề nghị vẫn chưa được hủy. Xin thử lại sau” |   **Relationships:** extended by Send Offer To Driver  **Business Rules:**   * System can only cancel 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. * Offer is marked as cancelled in database. | | | |

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| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** | 2.0 |
| **Use Case Name** | Tracking delivery information – Track status | | |
| **Author** | ThinhDP | | |
| **Date** |  | **Priority** | High |
| **Actor:** Goods owner  **Summary:** This use case allows goods owner to track delivery status.  **Goal:** To know the current status of goods delivery.  **Triggers:** Goods owner clicks on “Trạng thái hàng” tab  **Preconditions:**   * Goods owner must log in to the system with role goods owners. * Goods is accepted between driver and owner.   **Post Conditions:**   * **Success:** Satus of the goods is shown next to goods id * **Fail:** Status is not shown. Error message is shown   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Goods owner clicks “Trạng thái hàng” tab  [Exception 1,2] | System navigates to tracking page. System shows list of goods with current status |   **Alternative Scenario:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Goods owner clicks “Trạng thái hàng” tab | Status is not shown. Show error message: “Không thể tải trạng thái của hàng. Xin thử lại sau.” | | 2 | Goods owner clicks “Trạng thái hàng” tab | No goods are shown. Show error message: “Không thể tải danh sách hàng. Xin thử lại sau” |   **Relationships:** Tracking delivery information  **Business Rules:**   * Goods is accepted between driver and owner. * Status are: “Hàng đang giao, hàng đã gửi” | | | |