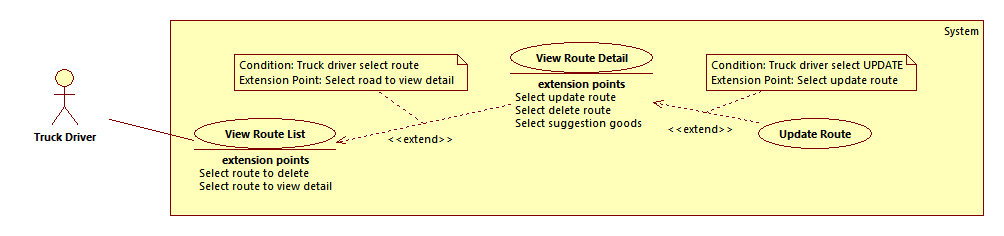
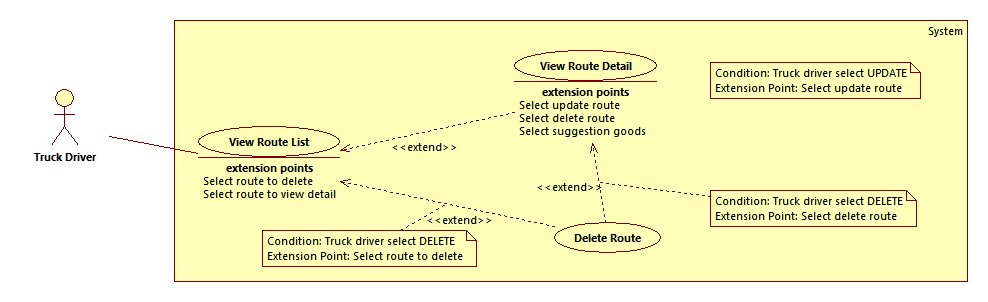


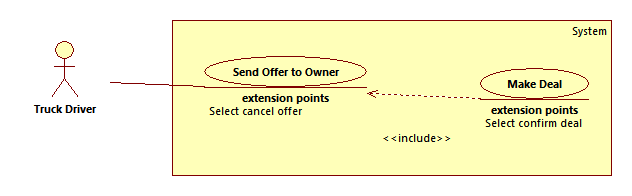
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| **USE CASE – FTS001** | | | |
| **Use Case No.** | FTS001 | **Use Case Version** | 2.0 |
| **Use Case Name** | Create new route | | |
| **Author** | Nguyen Quang Thien | | |
| **Date** | 14/01/2015 | **Priority** | High |
| **Actor:**   * Truck Driver   **Summary:**   * Truck drivers post information about their route to the system.   **Goal:**   * Route information is added to the system.   **Triggers:**   * Truck driver clicks add button on action bar   **Preconditions:**   * User logs in as truck driver.   **Post Conditions:**   * **Success:** Information is added to the system. * **Fail:** No information is added. Error message is shown.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Truck driver clicks “Tạo đường đi mới” menu. | Navigate to “Thông tin lộ trình” page which contains:   * Địa điểm bắt đầu: textbox, min length: 1, max length: 50, required * Địa điểm kết thúc: textbox, min length: 1, max length: 50, required * Ngày bắt đầu: day picker, date range: current date – 1/1/2999, required * Ngày kết thúc: day picker, date range: current date – 1/1/2999, required * Khối lượng có thể chở: textbox, min length: 1, max length: 3, min value: 1, max value: 999, required * Hàng dễ vỡ: checkbox, not required * Hàng đông lạnh: checkbox, not required * Loại hàng khác: checkbox, not required * Tùy chỉnh lộ trình: link * Tạo mới: button | | 2 | Truck driver fills necessary information into the form. [Alternative 1] |  | | 3 | Truck driver clicks “Tạo mới” button | Route’s information is added to database, success message “Đã tạo mới đường đi thành công” is shown. [Exception 1, 2, 3 ,4 ,5 ,6 ,7 ,8 ,9, 10, 11] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Truck driver clicks “Tùy chỉnh lộ trình” link. | Navigate to “Tùy chỉnh” page which contains a Google map displays current route and 1 button:   * Lưu tùy chỉnh: Button | | 2 | Truck driver clicks on the map to add 2 markers at most | Markers are displayed. Route is redrawn on the map | | 3 | Truck driver clicks “Lưu tùy chỉnh” button | New route with markers is saved, “Tạo đường đi mới” page is shown again. | | 2 | Truck driver fills necessary information into the form. |  | | 3 | Truck driver clicks “Tạo mới” button | Route’s information is added to database, success message “Đã tạo mới đường đi thành công” is shown. [Exception 1, 2, 3 ,4 ,5 ,6 ,7 ,8 ,9, 10, 11] |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Truck driver clicks “Tạo mới” button. | No information is added to database. Error message “Có lỗi xảy ra. Vui lòng thử lại sau.” is shown. | | 2 | “Điểm bắt đầu” field is empty. | Error message “Điểm bắt đầu không được để trống.” is shown. | | 3 | “Điểm bắt đầu” field data length is longer than 50 characters. | Error message “Điểm bắt đầu chỉ dài tối đa 50 ký tự. Vui lòng nhập lại.” is shown. | | 4 | “Ngày bắt đầu” field is empty. | Error message “Ngày bắt đầu không được để trống.” is shown | | 5 | “Ngày bắt đầu” field data is out of range. | Error message “Ngày bắt đầu không phù hợp, vui lòng nhập lại.” is shown | | 6 | “Ngày kết thúc” field is empty. | Error message “Ngày kết thúc không được để trống.” is shown | | 7 | “Ngày kết thúc” field data is out of range. | Error message “Ngày kết thúc không phù hợp, vui lòng nhập lại.” is shown | | 8 | “Điểm kết thúc” field is empty. | Error message “Điểm kết thúc không được để trống.” is shown. | | 9 | “Điểm kết thúc” field data length is longer than 50 characters. | Error message “Điểm kết thúc chỉ dài tối đa 50 ký tự. Vui lòng nhập lại.” is shown. | | 10 | “Khối lượng có thể chở” field is empty. | Error message “Khối lượng có thể chở không được để trống.” is shown. | | 11 | “Khối lượng có thể chở” field data is not a number.  “Khối lượng có thể chở” field data is negative number. | Error message “Khối lượng có thể chở không hợp lệ. Vui lòng nhập lại.” is shown. | | 12 | “Khối lượng có thể chở” field data length is longer than 3 characters. | Error message “Khối lượng có thể chở quá dài. Vui lòng nhập lại.” is shown. | | 13 | “Khối lượng có thể chở” field data is higher than 999. | Error message “Khối lượng có thể chở tối đa là 999 tấn. Vui lòng nhập lại.” is shown. |   **Relationships:** include “Get suggestion goods”  **Business Rules:**   * New route information is added to database with an active state. * Truck driver can add more than 1 route information, but the time interval between route informations must not overlap. * Truck driver route can be modified by adding 2 more markers at most between starting and ending point of the map. * If data is added successfully, system must notifies truck driver that new information is added. If data is failed to be added, system must also notifies truck driver about the error. | | | |



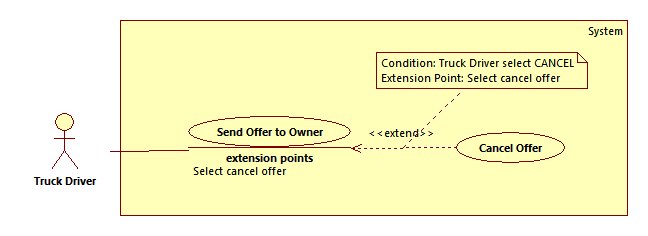
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| **USE CASE – FTS002** | | | |
| **Use Case No.** | FTS002 | **Use Case Version** | 2.0 |
| **Use Case Name** | Update route | | |
| **Author** | Nguyen Quang Thien | | |
| **Date** | 14/01/2015 | **Priority** | High |
| **Actor:**   * Truck Driver   **Summary:**   * Truck drivers can update posted information about their route to the system.   **Goal:**   * Route information is updated to the system.   **Triggers:**   * Truck driver clicks “Thay đổi” button in a route detail page.   **Preconditions:**   * User logs in as truck driver.   **Post Conditions:**   * **Success:** New information is updated to the system. * **Fail:** No information is updated. Error message is shown.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | * Truck driver clicks “Thay đổi” button in a route detail page. | Navigate to “Thay đổi đường đi” page which contains:   * Địa điểm bắt đầu: textbox, min length: 1, max length: 50, required * Địa điểm kết thúc: textbox, min length: 1, max length: 50, required * Ngày bắt đầu: day picker, date range: current date – 1/1/2999, required * Ngày kết thúc: day picker, date range: current date – 1/1/2999, required * Khối lượng có thể chở: textbox, min length: 1, max length: 3, min value: 1, max value: 999, required * Hàng dễ vỡ: checkbox, not required * Hàng đông lạnh: checkbox, not required * Loại hàng khác: checkbox, not required * Thay đổi: button   Old data are loaded to the fields | | 2 | Truck driver updates necessary information into the form. [Alternative 1] |  | | 3 | Truck driver clicks “Cập nhật” button | Route’s information is updated to database, success message “Đã cập nhật đường đi thành công” is shown. [Exception 1, 2, 3 ,4 ,5 ,6 ,7 ,8 ,9, 10, 11, 12, 13] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Truck driver clicks “Tùy chỉnh lộ trình” link. | Navigate to “Tùy chỉnh” page which contains a Google map displays current route with old markers and 1 button:   * Lưu tùy chỉnh: Button | | 2 | Truck driver clicks on the map to add 2 markers at most or change the old markers | Markers are displayed. Route is redrawn on the map | | 3 | Truck driver clicks “Lưu tùy chỉnh” button | New route with markers is saved, “Thay đổi đường đi” page is shown again. | | 2 | Truck driver fills necessary information into the form. |  | | 3 | Truck driver clicks “Cập nhật” button | Route’s information is updated to database, success message “Đã cập nhật đường đi thành công” is shown. [Exception 1, 2, 3 ,4 ,5 ,6 ,7 ,8 ,9, 10, 11, 12, 13] |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Truck driver clicks “Cập nhật” button. | No information is updated to database. Error message “Có lỗi xảy ra. Vui lòng thử lại sau.” is shown. | | 2 | “Điểm bắt đầu” field is empty. | Error message “Điểm bắt đầu không được để trống.” is shown. | | 3 | “Điểm bắt đầu” field data length is longer than 50 characters. | Error message “Điểm bắt đầu chỉ dài tối đa 50 ký tự. Vui lòng nhập lại.” is shown. | | 4 | “Ngày bắt đầu” field is empty. | Error message “Ngày bắt đầu không được để trống.” is shown | | 5 | “Ngày bắt đầu” field data is out of range. | Error message “Ngày bắt đầu không phù hợp, vui lòng nhập lại.” is shown | | 6 | “Điểm kết thúc” field is empty. | Error message “Điểm kết thúc không được để trống.” is shown. | | 7 | “Điểm kết thúc” field data length is longer than 50 characters. | Error message “Điểm kết thúc chỉ dài tối đa 50 ký tự. Vui lòng nhập lại.” is shown. | | 8 | “Ngày kết thúc” field is empty. | Error message “Ngày kết thúc không được để trống.” is shown | | 9 | “Ngày kết thúc” field data is out of range. | Error message “Ngày kết thúc không phù hợp, vui lòng nhập lại.” is shown | | 10 | “Khối lượng có thể chở” field is empty. | Error message “Khối lượng có thể chở không được để trống.” is shown. | | 11 | “Khối lượng có thể chở” field data is not a number.  “Khối lượng có thể chở” field data is negative number. | Error message “Khối lượng có thể chở không hợp lệ. Vui lòng nhập lại.” is shown. | | 12 | “Khối lượng có thể chở” field data length is longer than 3 characters. | Error message “Khối lượng có thể chở quá dài. Vui lòng nhập lại.” is shown. | | 13 | “Khối lượng có thể chở” field data is higher than 999. | Error message “Khối lượng có thể chở tối đa là 999 tấn. Vui lòng nhập lại.” is shown. |   **Relationships:** extended by “View route detail”  **Business Rules:**   * Route information is updated to database with an active state. * Truck driver can update more than 1 route information, but the time interval between route informations must not overlap. * Truck driver route can be modified by adding 2 more markers at max between starting and ending point of the map. * If there are available offers, truck driver cannot update the route information. To update route information, truck driver has to cancel and decline all the remaining offers. * If data is updated successfully, system must notifies truck driver that new information is updated. If data is failed to be updated, system must also notifies truck driver about the error. | | | |



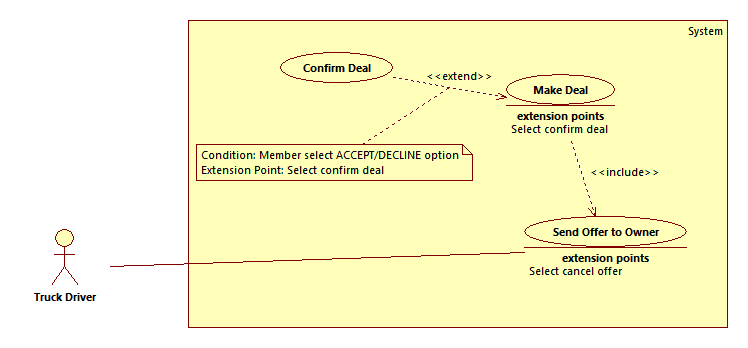
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| **USE CASE – FTS003** | | | |
| **Use Case No.** | FTS003 | **Use Case Version** | 2.0 |
| **Use Case Name** | Delete Route | | |
| **Author** | Nguyen Quang Thien | | |
| **Date** | 14/01/2015 | **Priority** | High |
| **Actor:**   * Truck Driver   **Summary:**   * Truck drivers can delete posted information about their route to the system.   **Goal:**   * Route information is removed to the system.   **Triggers:**   * Truck driver clicks “Hủy” button on a Route Detail page.   **Preconditions:**   * User logs in as truck driver.   **Post Conditions:**   * **Success:** Current information is removed from the system. * **Fail:** No information is removed. Error message is shown.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Truck driver clicks “Hủy” button on a Route Detail page. | Confirmation message “Bạn có muốn hủy đoạn đường này không?” | | 2 | Truck driver clicks “Có” button [Alternative 1] | Route’s information is removed from database, success message “Đã hủy đường đi thành công” is shown. [Exception 1] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Respone | | 1 | Truck driver clicks “Không” button | No information is removed from the system, confirmation message is closed. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Truck driver clicks “Có” button. | No information is removed from database. Error message “Có lỗi xảy ra. Vui lòng thử lại sau.” is shown. |   **Relationships:** extended by “View Route List”, extended by “View Route Detail”  **Business Rules:**   * Route information record remains in database but with an inactive state. * If there are available offers, truck driver cannot delete the route information. To delete route information, truck driver has to cancel and decline all the remaining offers. * If data is deleted successfully, system must notifies truck driver that new information is deleted. If data is failed to be deleted, system must also notifies truck driver about the error. | | | |



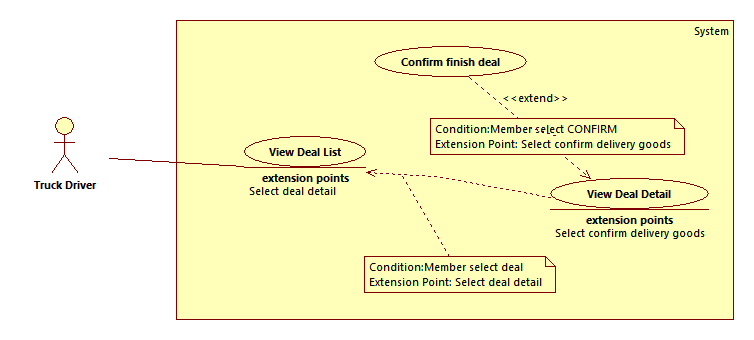
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| **USE CASE – FTS004** | | | |
| **Use Case No.** | FTS004 | **Use Case Version** | 2.0 |
| **Use Case Name** | Send Offer To Owner | | |
| **Author** | Nguyen Quang Thien | | |
| **Date** | 14/01/2015 | **Priority** | High |
| **Actor:**   * Truck Driver   **Summary:**   * Truck driver sends new deal to goods owner   **Goal:**   * Deal is sent to goods owner   **Triggers:**   * Truck driver clicks “Đề nghị” button in a suggestion detail page   **Preconditions:**   * User logs in as truck driver. * Truck driver must have at least 1 route information available * Goods must be available in database   **Post Conditions:**   * **Success:** Deal is sent to goods owner. Success message is shown. * **Fail:** Deal is not sent to goods owner. Error message is shown   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Truck driver clicks “Đề nghị” button in a suggestion detail page | Redirect to “Đề nghị mới” page with owner’s listed items and 2 textboxes:   * Phí chuyên chở: textbox, min length = 0, max length = 8, min value: 1, max value: 99.000.000, required * Ghi chú: textbox, min length = 0, max length = 50, not required * Gửi đề nghị: button | | 2 | Truck driver clicks “Gửi đề nghị” button. | Offer is sent to the goods owner that truck driver wants to make a deal with. Success message “Đề nghị đã được gửi thành công” is shown. [Exception 1, 2] |   **Alternative Scenario:**   * N/A   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Truck driver clicks “Gửi đề nghị” button | Offer is not sent. Error message “Có lỗi xảy ra. Vui lòng thử lại sau” is shown. | | 2 | “Ghi chú” field data length is longer than 50 words. | Error message “Ghi chú chỉ dài tối đa 50 từ. Vui lòng nhập ngắn hơn.” is shown. | | 3 | “Phí chuyên chở” field is empty | Error message “Phí chuyên chở không được để trống. Vui lòng nhập lại” is shown. | | 4 | “Phí chuyên chở” field data is less than 0 or more than 99.000.000 | Error message “Phí chuyên chở không phù hợp. Vui lòng nhập lại” is shown. |   **Relationships:** included in “Make Deal”  **Business Rules:**   * System must check whether owner’s posted good is still available or not before sending the offer to goods owner. If not, system must notifies truck driver that the good is not available anymore. * New offer is saved to database with pending state * If offer is sent successfully, system must notifies truck driver with success message and notifies goods owner that there’s a new offer. If offer is failed to be sent, system must also notifies truck driver about the error. * If the notification is failed to sent, the system will resent it one more time. If the notification is failed to sent twice, the good owner will automatically be removed from the suggest list. * Driver can send offers to more than 1 goods owner, however the total good’s weight in offers must be less than the goods weight the truck can carry. | | | |



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| **USE CASE – FTS005** | | | |
| **Use Case No.** | FTS005 | **Use Case Version** | 2.0 |
| **Use Case Name** | Cancel Offer | | |
| **Author** | Nguyen Quang Thien | | |
| **Date** | 14/01/2015 | **Priority** | High |
| **Actor:**   * Truck Driver   **Summary:**   * Truck driver cancel a sent offer to goods owner   **Goal:**   * Offer is cancelled. Success message is shown.   **Triggers:**   * Truck driver clicks “Hủy” button in a sent offer detail page.   **Preconditions:**   * User logs in as truck driver. * Offer is created succesfully   **Post Conditions:**   * **Success:** Offer is cancelled. Success message is shown. * **Fail:** Offer is not cancelled. Error message is shown.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Truck driver clicks “Hủy” button in a sent offer detail page. | Confirmation message “Bạn có chắc chắn không?” is shown. | | 2 | Truck driver clicks “Có” button. [Alternative 1] | Offer is cancelled. Success message “Đề nghị đã được hủy.” is shown. [Exception 1] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Truck driver clicks “Không” button | No offer is cancelled. “Đề nghị” page is shown. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Truck driver clicks “Có” button | Offer is not cancelled. Error message “Có lỗi xảy ra. Vui lòng thử lại sau” is shown. |   **Relationships:** Extended by “Send Offer to Owner”  **Business Rules:**   * Truck driver account must be valid to cancel offers * Offer is marked with cancelled state in database * System must check whether the offer is accepted before marking it with cancelled state. If the offer is accepted before truck driver cancels it, system must notifies truck driver with error message and reason. * System must notifies truck drivers whether the offer is cancelled or not. * System must notifies good owner that the offer has been cancelled. | | | |



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| **USE CASE – FTS006** | | | |
| **Use Case No.** | FTS006 | **Use Case Version** | 2.0 |
| **Use Case Name** | Confirm Deal | | |
| **Author** | Nguyen Quang Thien | | |
| **Date** | 14/01/2015 | **Priority** | High |
| **Actor:**   * Truck Driver   **Summary:**   * Truck driver accepts an offer from goods owner   **Goal:**   * Deal is accepted, goods owner’s information is shown   **Triggers:**   * Truck driver clicks “Chấp nhận” button on “Trả lời đề nghị” page   **Preconditions:**   * User logs in as truck driver.   **Post Conditions:**   * **Success:** Offer is accepted, success message and goods owner information are shown * **Fail:** Offer is not accepted. Error message is shown   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Truck driver clicks “Chấp nhận” button on “Trả lời đề nghị” page [Alternative 1] | Confirmation message “Bạn có chắc chắn không?” is shown. | | 2 | Truck driver clicks “Có” button [Alternative 2] | Offer is accepted. Success message “Đề nghị đã được chấp nhận.” is shown. Displays goods owner contact information. |   **Alternative Scenario:**  **Alternative 1**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Truck driver clicks “Từ chối” button on “Trả lời đề nghị” page | Confirmation message “Bạn có chắc chắn không?” is shown. | | 2 | Truck driver clicks “Có” button [Alternative 2] | Offer is declined. Success message “Đề nghị đã được từ chối.” is shown. |   **Alternative 2**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 2 | Truck driver clicks “Không” button [Alternative 2] | Show “Trả lời đề nghị” page |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Truck driver clicks “Chấp nhận”button on “Trả lời đề nghị” page | Offer is not accepted. Error message “Có lỗi xảy ra. Vui lòng thử lại sau” is shown. | | 2 | Truck driver clicks “Từ chối”button on “Trả lời đề nghị” page | Offer is not declined. Error message “Có lỗi xảy ra. Vui lòng thử lại sau” is shown. |   **Relationships:** extended by “Make Deal”  **Business Rules:**   * Offer is marked with accepted state in database * System must check whether the offer from good owner is still available before marking it with accepted state. If the offer get canceled by goods owner before truck driver accepts it, system must notifies truck driver with error message and reason. * System must notifies truck drivers whether the offer is accepted or not. * System must notifies good owner that the offer has been accepted. | | | |



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| **USE CASE – FTS008** | | | |
| **Use Case No.** | FTS008 | **Use Case Version** | 2.0 |
| **Use Case Name** | Confirm finish deal | | |
| **Author** | Nguyen Quang Thien | | |
| **Date** | 17/01/2015 | **Priority** | High |
| **Actor:**   * Truck Driver   **Summary:**   * Truck driver confirms delivery status of a deal   **Goal:**   * Delivery status is updated. Sending notification to goods owner.   **Triggers:**   * Truck driver clicks “Đã gửi hàng” button on “Chi tiết giao dịch” page   **Preconditions:**   * User logs in as truck driver.   **Post Conditions:**   * **Success:** Delivery status is updated. Sending notification to goods owner. Success message is shown. * **Fail:** Delivery status is not updated. No notification is sent to goods owner. Error message is shown.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | | 1 | Truck driver clicks “Đã gửi hàng” button on “Chi tiết giao dịch” page | Confirmation message “Bạn có chắc chắn không?” is shown. | | 2 | Truck driver clicks “Có” button | Delivery status is updated. Sending notification to goods owner. Success message is shown |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Truck driver clicks “Không” button | Delivery status remains the same. “Chi tiết giao dịch” page is shown. |     **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Truck driver clicks “Có” button | Delivery status is not updated. No notification is sent to goods owner. Error message is shown. |   **Relationships:** extended by “View Deal Detail”  **Business Rules:**   * Truck driver account must be valid to confirm delivery status of a deal * The deal has to be accepted before truck driver can change its status * The deal is saved to database with completed status from truck driver, but it is not the final state of the deal. Delivery status is marked to completed when goods owner or staff confirm the status. * System must notifies truck drivers whether the offer is marked to be completed or not. | | | |