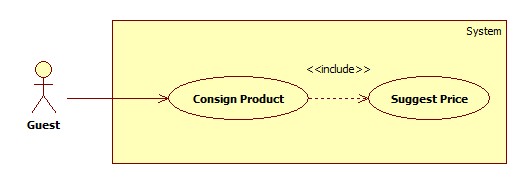
1. **<Guest> Consign product**

**Use Case Diagram**



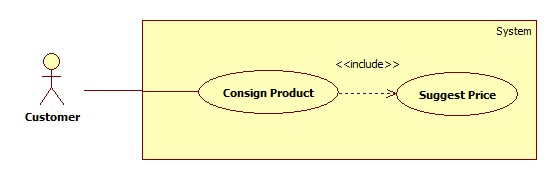
**Figure 1: <Guest> Consign product**

**Use Case Specification**

|  |  |  |  |
| --- | --- | --- | --- |
| **USE CASE – DHP01** | | | |
| **Use Case No.** | **DHP01** | Use Case Version | 2.0 |
| Use **Case Name** | Consign product | | |
| **Author** | DucHC | | |
| **Date** | May 23, 2015 | Priority | High |
| **Actor**:   * Guest   **Summary**:   * This use case allows guest to consign product.   **Goal**:   * Guest sends consign requests successfully.   **Triggers**:   * Guest sends command to consign product.   **Preconditions**: N/A  **Post Conditions**:   * **Success**: Show success message. * **Fail:** Show error message.   **Main Success Scenario**:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Guest sends command to consign product. | System requires guest to input following information of product:   * Product name:   + Free text input.   + Min-length: 5 characters.   + Max-length: 50 characters.   + Required. * Serial number: free text input. * Purchased date:   + Guest picks a date.   + Default date: today.   + Required. * Category:   + Option (example: Shirt, Pants, Shoes, Hat, Glass…).   + Required. * Brand:   + Free text input.   + Max-length: 50 characters. * Description: free text input. * Product’s image:   + A large field to show image of product.   + Required.   Systems also shows following component:   * Select image: send command to browse image in guest’s computer. * Change: send command to browse image in guest’s computer. * Remove: send command to remove image. * Next: send command completed inputting values. | | 2 | Guest inputs and sends product’s information to system.  [Alternative 1, 2,3] | System calls “Suggest price” function to get basic price for product. System gets all suitable stores for product based on category, calculates price of each store then shows it to guest with following information:   * Name: label. * Address: label. * Reliability: label. * Price: label. * Choose: guest chooses one of listed stores.   Systems also shows following component:   * Back: Send command to go back to input information of product. * Next: Send command to finish choosing store.   [Exception 1,2,3,4]  [Alternative 4] | | 3 | Guest chooses a store and informs system.  [Alternative 5] | System requires guest to provide personal information listed below:   * Full name:   + Free text input.   + Min-length: 5 characters.   + Max-length: 50 characters.   + Required. * Delivery date:   + From:     - Guest picks a date.     - Default date: today.     - Required.   + “To”     - Guest picks a date.     - Default date: today.     - Required. * Address: free text input. * Contact by: Guest chooses one of 3 options: “Phone”, “Email” and “Both”. * Phone: free text input. * Email: free text input. * Payment method: guest chooses one of 2 options: “Cash” and “Credit card”. * Card number: free text input. * Card owner: free text input.   Systems also show following component:   * Back: send command to go back to store-choosing step. * Consign: send command to complete inputting personal information.   [Exception 5] | | 4 | Guest inputs and sends personal information to system.  [Alternative 6,7,8,9,10,11] | System completes consigning request with all the information guest provides. A successful message will be shown. Guest will get a code to check consigned-product status.  [Exception 6,7,8,9,10,11,12,13] |   **Alternative Scenario**:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Guest selects image in providing product’s info step. | System requires guest to browse image in guest’s computer and upload on page. | | 2 | Guest changes image in providing product’s info step. | System requires guest to browse image in guest’s computer and upload on page. | | 3 | Guest removes image in providing product’s info step. | Image is removed. | | 4 |  | System cannot find product with provided info. A message “We could not find your product. We will record this consignment and send it to store owner you choose. They will contact you as soon as possible.” will be shown. | | 5 | Guest sends request to go back to providing product’s information step. | Systems shows providing product’s info step. | | 6 | Guest chooses “Phone” option in providing Personal info step. | “Phone” free text input will be shown and be required.  “Email” free text input will be hidden. | | 7 | Guest chooses “Email” option in providing Personal info step. | “Email” free text input will be shown and be required.  “Phone” free text input will be hidden. | | 8 | Guest chooses “Both” option in providing personal info step. | Both “Phone” free text input and “Email” free text input will be shown and be required. | | 9 | Guest chooses “Cash” option in providing personal info step. | “Card number” free text input and “Card owner” free text input will be hidden. | | 10 | Guest chooses “Credit card” option in providing personal info step. | “Card number” free text input and “Card owner” free text input will be shown and be required. | | 11 | Guest sends request to go back to store-choosing step. | Systems shows store-choosing step. |   **Exceptions**:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Inputted value of “Product name” field is less than 5 characters or longer than 50 characters. | System shows error message: “Product name must be between 5-50 characters”. | | 2 | Purchased date is not selected. | System shows error message: “Please choose a date”. | | 3 | No category is selected. | System shows error message: “Please choose a category”. | | 4 | No image is uploaded. | Show message error: “Please upload an image of your product”. | | 5 | No store is chosen. | System shows error message: “Please choose a store to consign”. | | 6 | Inputted value of “Full name” field is less than 5 characters or longer than 50 characters. | System shows error message: “Full name must be between 5-50 characters”. | | 7 | “From” date is not selected. | System shows error message: “Please choose from date”. | | 8 | “To” date is not selected. | System shows error message: “Please choose to date”. | | 9 | “From” date is bigger than “To” date. | System shows error message: “From date must be smaller than to date”. | | 10 | Inputted value of “Phone” field is empty. | System shows error message: “Phone is required”. | | 11 | Inputted value of “Email” field is empty. | System shows error message: “Email is required”. | | 12 | Inputted value of “Card number” field is empty. | System shows error message: “Credit card is required”. | | 13 | Inputted value of “Card owner” field is empty. | System shows error message: “Card owner is required”. |   **Relationships**:   * Include suggest price.   **Business Rules**:   * In store-choosing step, system finds stores that sell this kind of product, based on their category, then system uses price suggestion service to get the basic price of the product, based on information that guest provided. System will calculate suggestion price for each store based on basic price and formula of each store. * If price suggestion service cannot find product, a message “We could not find your product. We will record this consignment and send it to store owner you choose. They will contact you as soon as possible.” will be shown and guest will continue to choose store without suggested price. * “Reliability” attribute of store is based on number of successful consignments on total consignments that store had done in history. * After sending consignment request, guest will receive a code to track product’s status and also consignment’s status. Guest can also use it to cancel consignment. * Store owner will contact and receive product on the day guest chose. But store owner has the right to cancel consignment if product doesn’t resemble the information guest provided. | | | |

1. **<Customer> Consign product**

**Use Case Diagram**



**Figure 2: <Customer> Consign product**

**Use Case Specification**

|  |  |  |  |
| --- | --- | --- | --- |
| **USE CASE – DHP02** | | | |
| **Use Case No.** | **DHP02** | Use Case Version | 2.0 |
| Use **Case Name** | Consign product | | |
| **Author** | DucHC | | |
| **Date** | May 23, 2015 | Priority | High |
| **Actor**:   * Customer   **Summary**:   * This use case allows customer to consign product.   **Goal**:   * Customer sends consign requests successfully.   **Triggers**:   * Customer sends command to consign product.   **Preconditions**:   * User logged in as Member.   **Post Conditions**:   * **Success**: Show success message. * **Fail:** Show error message.   **Main Success Scenario**:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Customer sends command to consign product. | System requires customer to input following information of product:   * Product name:   + Free text input.   + Min-length: 5 characters.   + Max-length: 50 characters.   + Required. * Serial number: free text input. * Purchased date:   + Customer picks a date.   + Default date: today.   + Required. * Category:   + Option (example: Shirt, Pants, Shoes, Hat, Glass…).   + Required. * Brand:   + Free text input.   + Max-length: 50 characters. * Description: free text input. * Product image:   + A large field to show image of product.   + Required.   Systems also show following component:   * Select image: send command to browse image in customer’s computer. * Change: send command to browse image in customer’s computer. * Remove: send command to remove image. * Next: send command to complete inputting product’s info. | | 2 | Customer inputs and sends product’s information to system.  [Alternative 1, 2,3] | System calls “Suggest price” function to get basic price for product. System gets all suitable stores for product based on category, calculates price of each store then shows it to customer with following information:   * Name: label. * Address: label. * Reliability: label. * Price: label. * Choose: customer chooses one of listed stores.   Systems also show following component:   * Back: send command to go back to input information of product. * Next: send command to finish choosing store.   [Exception 1,2,3,4]  [Alternative 4] | | 3 | Customer chooses a store and informs system.  [Alternative 5] | System requires customer to provide personal information listed below:   * Full name:   + Free text input.   + Min-length: 5 characters.   + Max-length: 50 characters.   + Required. * Delivery date:   + From:     - Customer picks a date.     - Default date: today.     - Required.   + “To”     - Customer picks a date.     - Default date: today.     - Required. * Address: free text input. * Contact by: customer chooses one of 3 options: “Phone”, “Email” and “Both”. * Phone: free text input. * Email: free text input. * Payment method: customer chooses one of 2 options: “Cash” and “Credit card”. * Card number: free text input. * Card owner: free text input.   Systems also show following component:   * Back: * Back: send command to go back to store-choosing step. * Consign: send command to complete inputting personal information.   System automatically fills all information based on customer’s profile and allows customer to change it.  [Exception 5] | | 4 | Customer inputs and sends information to system.  [Alternative 6,7,8,9,10,11] | System completes consigning request with all the information customer provides. A successful message will be shown.  [Exception 6,7,8,9,10,11,12,13] |   **Alternative Scenario**:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Guest selects image in providing product’s info step. | System requires guest to browse image in guest’s computer and upload on page. | | 2 | Guest changes image in providing product’s info step. | System requires guest to browse image in guest’s computer and upload on page. | | 3 | Guest removes image in providing product’s info step. | Image is removed. | | 4 |  | System cannot find product with provided info. A message “We could not find your product. We will record this consignment and send it to store owner you choose. They will contact you as soon as possible.” will be shown. | | 5 | Guest sends request to go back to providing product’s info step. | Systems shows providing product’s info step. | | 6 | Guest chooses “Phone” option in providing Personal info step. | “Phone” free text input will be shown and be required.  “Email” free text input will be hidden. | | 7 | Guest chooses “Email” option in providing Personal info step. | “Email” t free text input will be shown and be required.  “Phone” free text input will be hidden. | | 8 | Guest chooses “Both” option in providing personal info step. | Both “Phone” free text input and “Email” free text input will be shown and be required. | | 9 | Guest chooses “Cash” option in providing personal info step. | “Card number” free text input and “Card owner” free text input will be hidden. | | 10 | Guest chooses “Credit card” option in providing personal info step. | “Card number” free text input and “Card owner” free text input will be shown and be required. | | 11 | Guest sends request to go back to store-choosing step. | Systems shows store-choosing step. |   **Exceptions**:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Inputted value of “Product name” field is less than 5 characters or longer than 50 characters. | System shows error message: “Product name must be between 5-50 characters”. | | 2 | Purchased date is not selected. | System shows error message: “Please choose a date”. | | 3 | No category is selected. | System shows error message: “Please choose a category”. | | 4 | No image is uploaded. | Show message error: “Please upload an image of your product”. | | 5 | No store is chosen. | System shows error message: “Please choose a store to consign”. | | 6 | Inputted value of “Full name” field is less than 5 characters or longer than 50 characters. | System shows error message: “Full name must be between 5-50 characters”. | | 7 | “From” date is not selected. | System shows error message: “Please choose from date”. | | 8 | “To” date is not selected. | System shows error message: “Please choose to date”. | | 9 | “From” date is bigger than “To” date. | System shows error message: “From date must be smaller than to date”. | | 10 | Inputted value of “Phone” field is empty. | System shows error message: “Phone is required”. | | 11 | Inputted value of “Email” field is empty. | System shows error message: “Email is required”. | | 12 | Inputted value of “Card number” field is empty. | System shows error message: “Credit card is required”. | | 13 | Inputted value of “Card owner” field is empty. | System shows error message: “Card owner is required”. |   **Relationships**:   * Include suggest price.   **Business Rules**:   * In store-choosing step, system finds stores that sell this kind of product, based on their category, then system uses price suggestion service to get the basic price of the product, based on information that guest provided. System will calculate suggestion price for each store based on basic price and formula of each store. * If price suggestion service cannot find product, a message “We could not find your product. We will record this consignment and send it to store owner you choose. They will contact you as soon as possible.” will be shown and guest will continue to choose store without suggested price of store owners. * “Reliability” attribute of store is based on number of successful consignments on total consignments that store had done in history. * Store owner will contact and receive product on the day customer chose. But store owner has the right to cancel consignment if product doesn’t resemble the information customer provided. * Store owner will use information that customer provides in consignment, not in customer’s profile. * Even it is not customer who will deal with store owner in this consignment, this will be saved in customer’ history. | | | |

1. **<Guest> Track product status**

**Use Case Diagram**



**Figure 3: <Guest> Track product status**

**Use Case Specification**

|  |  |  |  |
| --- | --- | --- | --- |
| **USE CASE – DHP03** | | | |
| **Use Case No.** | DHP03 | Use Case Version | 2.0 |
| **Use Case Name** | Track product status | | |
| **Author** | DucHC | | |
| **Date** | May 29, 2015 | Priority | High |
| **Actor**:   * Guest   **Summary**:   * This use case allows guest to track product status by code.   **Goal**:   * Guest views product’s current status successfully.   **Triggers**:   * Guest sends tracking product’s status command.   **Preconditions**: N/A  **Post Conditions**:   * **Success:** View product’s current status. * **Fail:** Show error message.   **Main Success Scenario**:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Guest sends tracking product’s status command. | System requires guest to input “Code” - free text input and “Check” to send this code to system. | | 2 | Guest inputs code and sends it to system. | System finds product with provided code and shows guest with following information:   * Image: A large field to show image of product. * Product name: label. * Consigned-price: label. * Consigned date: label. * Product’s status: label. * Product’s owner:   + Name: label.   + Address: label.   + Phone: label.   + Email: label.   + Payment method: label. * Store owner’s name: label.   System also shows “Cancel” to send command to cancel consignment. [Exception: 1, 2] |   **Alternative Scenario**: N/A  **Exceptions**:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Inputted value of “Code” field is null. | System shows error message: “Code is required”. | |  | System cannot find product with provided code. | System shows error message: “We could not find product with this code”. |   **Relationships**:   * Extending Use-case: Cancel product (Guest sends a request to cancel a consigned products).   **Business Rules**:   * Guest can only track product’s status by code. * Code is generated from consignment of consigned product. * When status is “Sold” or “Completed”, which means product is sold, guest cannot cancel it anymore. | | | |

1. **<Customer> Track product status**

**Use Case Diagram**



**Figure 4: <Customer> Track product status**

**Use Case Specification**

|  |  |  |  |
| --- | --- | --- | --- |
| **USE CASE – DHP04** | | | |
| **Use Case No.** | DHP04 | Use Case Version | 2.0 |
| **Use Case Name** | Track product status | | |
| **Author** | DucHC | | |
| **Date** | May 29, 2015 | Priority | High |
| **Actor**:   * Customer   **Summary**:   * This use case allows customer to track product status.   **Goal**:   * Customer view product’s current status successfully.   **Triggers**:   * Customer sends tracking product’s status command.   **Preconditions**:   * User logged in as customer.   **Post Conditions**:   * **Success:** View product’s current status. * **Fail:** Show error message.   **Main Success Scenario**:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Customer sends tracking product’s status command. | System shows a table of consigned product with following information:   * Product name: label. * Consigned date: label. * Consigned price: label.   Each row will have a “Details” link for customer to click and view details of a consigned product. | | 3 | Customer chooses a consigned product to view details. | System shows consigned product’s details with following information:   * Image: A large field to show image of product. * Product name: label. * Consigned-price: label. * Consigned date: label. * Product’s status: label. * Product’s owner:   + Name: label.   + Address: label.   + Phone: label.   + Email: label.   + Payment method: label. * Store owner’s name: label. * System also shows: * “Cancel”: send command to cancel consignment. * “Back”: send command to go back to view listed consigned products.   [Alternative 1] |   **Alternative Scenario**:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Customer sends request to go back to view listed consigned products. | System shows listed consigned products. |   **Exceptions**: N/A  **Relationships**:   * Extending Use-case: Cancel product (Customer sends request to cancel a consigned product).   **Business Rules**:   * Customer can view consigned products of all consignments he/she had done in history. * When status is “Sold” or “Completed”, customer cannot cancel it anymore. | | | |

1. **<Guest> Cancel consigned product**

**Use Case Diagram**



**Figure 5: <Guest> Cancel consigned product**

**Use Case Specification**

|  |  |  |  |
| --- | --- | --- | --- |
| **USE CASE – DHP05** | | | |
| **Use Case No.** | DHP05 | Use Case Version | 2.0 |
| **Use Case Name** | Cancel consigned product | | |
| **Author** | DucHC | | |
| **Date** | May 29, 2015 | Priority | High |
| **Actor**:   * Guest   **Summary**:   * This use case allows guest to cancel a consigned product.   **Goal**:   * Guest cancels a consigned product successfully.   **Triggers**:   * Guest sends canceling consigned product command.   **Preconditions**:   * Guest is viewing a consigned product’s information. * Status of product is neither “Sold” nor “Completed”.   **Post Conditions**:   * **Success:** Product’s status is changed to “Canceled”. * **Fail:** Show error message.   **Main Success Scenario**:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Guest sends canceling consigned product command.  [Alternative 1, 2] | System shows a confirming message if guest really wants to cancel this consigned product with two options “Yes” and “No”. | |  | Guest chooses “Yes” option.  [Alternative 3] | Product’s status is changed to “Canceled”. |   **Alternative Scenario**:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Guest sends canceling consigned product command when status is “Waiting” or “Accepted”. | System shows message: “Are you sure you want to cancel this consigned product?” with two options “Yes” and “No”. | | 2 | Guest sends canceling consigned product command when status is “In inventory” or “On web”. | System shows message: “Are you sure you want to cancel this consigned product? You will pay forfeit for this action.” with two options “Yes” and “No”. | | 3 | Guest chooses “No” option. | Message will disappear. |   **Exceptions**: N/A  **Relationships**:   * Extended Use-case: Track product status.   **Business Rules**:   * Guest can only cancel product before it’s sold. * If guest cancels before store owner gets product, consign product process will be stopped. * If guest cancels after store owner gets product, guest will be informed to take back product in a specific time and pay a forfeit for canceling consignment. After that time and guest doesn’t come to take back product, store owner will have it. | | | |

1. **<Customer> Cancel consigned product**

**Use Case Diagram**



**Figure 6: <Customer> Cancel consigned product**

**Use Case Specification**

|  |  |  |  |
| --- | --- | --- | --- |
| **USE CASE – DHP06** | | | |
| **Use Case No.** | DHP06 | Use Case Version | 2.0 |
| **Use Case Name** | Cancel consigned product | | |
| **Author** | DucHC | | |
| **Date** | May 29, 2015 | Priority | High |
| **Actor**:   * Customer   **Summary**:   * This use case allows customer to cancel consigned product.   **Goal**:   * Customer cancels consigned product successfully.   **Triggers**:   * Customer sends canceling consigned product command.   **Preconditions**:   * User logged in as Customer. * Customer is viewing details of a consigned product. * Status of product is not “Sold” or “Completed”.   **Post Conditions**:   * **Success:** Product status is changed to “Canceled”. * **Fail:** Show error message.   **Main Success Scenario**:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Customer sends canceling consigned product command.  [Alternative 1,2] | System shows a confirming message if customer really wants to cancel this consigned product with two options “Yes” and “No”. | |  | Customer chooses “Yes” option.  [Alternative 3] | Product’s status is changed to “Canceled”. |   **Alternative Scenario**:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Customer sends canceling consigned product command when status is “Waiting” or “Accepted”. | System shows message: “Are you sure you want to cancel this consigned product?” with two options “Yes” and “No”. | | 2 | Customer sends canceling consigned product command when status is “In inventory” or “On web”. | System shows message: “Are you sure you want to cancel this consigned product? You will pay forfeit for this action.” with two options “Yes” and “No”. | | 3 | Customer chooses “No” option. | Message will disappear. |   **Exceptions**: N/A  **Relationships**:   * Extended Use-case: Track product status.   **Business Rules**:   * Customer can only cancel product before it’s sold. * If customer cancels before store owner gets product, consign product process will be stopped. * If customer cancels after store owner gets product, customer will be informed to take back product in a specific time and pay a forfeit for canceling consignment. After that time and customer doesn’t come to take back product, store owner will have it. * Store owner will contact customer by information in consignment. If couldn’t, store owner will contact customer by information on profile. | | | |