Còn thiếu:

* Xử lý xóa Ingredient ảnh hưởng đến Product

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| --- | --- |
| Use case’s name | Add Product (Ingredient) |
| Actor | User |
| Precondition | No duplicate for adding  User has already logged in |
| Main flow  (success) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 1 | User | Choose Manage Store menu then Products (Ingredients) | | 2 | System | Show list of products in Manage Store menu | | 3 | User | Choose Add Product | | 4 | System | Show Add Product menu | | 5 | User | Fill info for the new product | | 6 | System | Check if the user fills in all the required fields | | 7 | System | Check if the product hasn’t been in the list | | 8 | System | Go to “Commit” use case | | 9 | User | Commit the changes | | 10 | System | Save the product in database, show success message, go to “Logging” use case | |
| Alternative flow  (exception) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 6a | System | Exception: Required fields must be filled | | 7a | System | Exception: Duplicate product is not allowed, prompt user to change product details | | 8a | System | If User doesn’t commit, go back to step 5 | |
| Postcondition | None |

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| --- | --- |
| Use case’s name | Remove Product (Ingredient) |
| Actor | User |
| Precondition | Existing product for removal  User has already logged in |
| Main flow  (success) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 1. | User | Choose Manage Store menu then Products (Ingredients) | | 2 | System | Show list of products in Manage Store menu | | 3 | User | Choose the product to be removed | | 4 | System | Go to “Commit” use case | | 5 | User | Commit the changes | | 6 | System | Save the product in database, show success message, go to “Logging” use case | |
| Alternative flow  (exception) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 5a | System | If User doesn’t commit, go back to step 3 | |
| Postcondition | None |

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| --- | --- |
| Use case’s name | Edit Product (Ingredient) info |
| Actor | User |
| Precondition | Existing product for editing |
| Main flow  (success) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 1. | User | Choose Manage Store menu then Products (Ingredients) | | 2 | System | Show list of products in Manage Store menu | | 3 | User | Choose the product to be edited | | 4 | System | Show product info | | 5 | User | Edit the information | | 6 | System | Go to “Commit” use case | | 7 | User | Commit the changes | | 8 | System | Save the product in database, show success message | |
| Alternative flow  (Edit Quantity) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 5a | User | Choose Edit quantity option | | 6a. | System | Show Edit quantity window | | 7a. | User | Edit the quantity of the product | | 8a. | System | Save the new quantity in database, go to Logging use case | |
| Postcondition | None |

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| --- | --- |
| Use case’s name | Add Ingredient to Product |
| Actor | User |
| Precondition | Existing product and ingredients  User has already logged in |
| Main flow  (success) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 1. | User | Choose Manage Store menu then Products | | 2 | System | Show list of products in Manage Store menu | | 3 | User | Choose the product to be changed | | 4 | System | Show product info | | 5 | User | Choose Ingredients List menu | | 6 | System | Show the Ingredients List of the product | | 7 | User | Choose Add Ingredients | | 8 | System | Show list of existing ingredients | | 9 | User | Choose Ingredient(s) | | 10 | System | Go to Commit use case | | 11 | User | Commit the changes | | 12 | System | Save changes in database, show success message | |
| Alternative flow  (exception) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 11a | System | If User doesn’t commit, go back to step 8 | |
| Postcondition | None |

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| --- | --- |
| Use case’s name | Remove Ingredients in Product |
| Actor | User |
| Precondition | Existing Ingredients for removal in Product  User has already logged in |
| Main flow  (success) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 1. | User | Choose Manage Store menu then Products | | 2 | System | Show list of products in Manage Store menu | | 3 | User | Choose the product to be changed | | 4 | System | Show product info | | 5 | User | Choose Ingredients List menu | | 6 | System | Show the Ingredients List of the product | | 7 | User | Choose the ingredients to be removed | | 8 | System | Go to “Commit” use case | | 9 | User | Commit the changes | | 10 | System | Save the changes in database | |
| Alternative flow  (exception) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 9a | System | If User doesn’t commit, go back to step 6 | |
| Postcondition | None |

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| --- | --- |
| Use case’s name | Add Product to Product Group |
| Actor | User |
| Precondition | Existing Product and Product Group  User has already logged in |
| Main flow  (success) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 1. | User | Choose Manage Store menu then Products | | 2 | System | Show list of products in Manage Store menu | | 3 | User | Choose the product to be changed | | 4 | System | Show product info | | 5 | User | Choose Add to Group | | 6 | System | Show the list of groups | | 7 | User | Choose the group | | 8 | System | Go to Commit use case | | 9 | User | Commit the changes | | 10 | System | Save changes in database | |
| Alternative flow  (exception) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 9a | System | If User doesn’t commit, go back to step 6 | |
| Postcondition | None |

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| --- | --- |
| Use case’s name | Remove Product in Product Group |
| Actor | User |
| Precondition | Existing Product for removal in Product Group  User has already logged in |
| Main flow  (success) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 1. | User | Choose Manage Store menu then Product Groups | | 2 | System | Show list of product group in Manage Store menu | | 3 | User | Choose the group to be changed | | 4 | System | Show the group list of products | | 5 | User | Choose the product to be removed | | 6 | System | Go to “Commit” use case | | 7 | User | Commit the changes | | 8 | System | Save the changes in database | |
| Alternative flow  (exception) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 7a | System | If User doesn’t commit, go back to step 4 | |
| Postcondition | None |

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| --- | --- |
| Use case’s name | Add Product Group |
| Actor | User |
| Precondition | Existing Product and Product Group  User has already logged in |
| Main flow  (success) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 1. | User | Choose Manage Store menu then Product Groups | | 2 | System | Show list of product group in Manage Store menu | | 3 | User | Choose Add Product Group | | 4 | System | Show Add Product Group menu | | 5 | User | Fill info for the new product group | | 6 | System | Check if the user fills in all the required fields | | 7 | System | Check if the product group hasn’t been in the list | | 8 | System | Go to “Commit” use case | | 9 | User | Commit the changes | | 10 | System | Save the product group in database | |
| Alternative flow  (exception) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 6a | System | Exception: Required fields must be filled | | 7a | System | Exception: Duplicate product group name is not allowed, prompt user to change product group name | | 8a | System | If User doesn’t commit, go back to step 5 | |
| Postcondition | None |

|  |  |
| --- | --- |
| Use case’s name | Remove Product Group |
| Actor | User |
| Precondition | Existing Product for removal in Product Group  User has already logged in |
| Main flow  (success) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 1. | User | Choose Manage Store menu then Product Groups | | 2 | System | Show list of product group in Manage Store menu | | 3 | User | Choose the group to be removed | | 4 | System | Go to “Commit” use case | | 5 | User | Commit the changes | | 6 | System | Save the changes in database | |
| Alternative flow  (exception) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 5a | System | If User doesn’t commit, go back to step 3 | |
| Postcondition | None |

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| --- | --- |
| Use case’s name | Commit |
| Actor | None |
| Precondition | Changes to commit |
| Main flow  (success) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 1. | System | Show Commit window | |
| Postcondition | None |

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| --- | --- |
| Use case’s name | Logging |
| Actor | None |
| Precondition | Changes to log |
| Main flow  (success) | |  |  |  | | --- | --- | --- | | No. | Actor | Action | | 1. | System | Create a new log in database | |
| Postcondition | None |