# Use-Case Descriptions

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| **ID** | UC1 |
| **Name** | Add Ingredient |
| **Description** | User adds ingredient to Virtual Fridge |
| **Pre-Condition** | Account exists and initial fridge configuration done |
| **Event Flow** | 1. Enter Ingredient 2. Include UC2 ‘Validate Ingredient’ 3. If successful, add ingredient, else include UC3 ‘Re-enter Ingredient’ |
| **Extension Points** | Validate Ingredient  Re-enter Ingredient |
| **Triggers** | User selected the “Add Ingredient” option |
| **Post Condition** | Fridge is updated, notification is given to user, user is shown fridge |

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| **ID** | UC2 |
| **Name** | Validate Ingredient |
| **Description** | User enters ingredient – validated to ensure it exists in DB |
| **Pre-Condition** | User enters ingredient |
| **Event Flow** | 1. Check Ingredient 2. If exists, add to Fridge and exit 3. Else, UC3, re-enter ingredient |
| **Extension Points** | Re-enter Ingredient |
| **Triggers** | User added a new ingredient |
| **Post Condition** | Fridge updated or user directed to re-enter UC3 |

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| **ID** | UC3 |
| **Name** | Re-enter Ingredient |
| **Description** | User enters invalid ingredient and must re-enter a valid one |
| **Pre-Condition** | Ingredient entered is invalid |
| **Event Flow** | 1. Re-enter ingredient 2. UC2 – check ingredient again |
| **Extension Points** | Validate Ingredient |
| **Triggers** | User entered invalid ingredient |
| **Post Condition** | Balance updated, cash is given to customer, customer is logged out |

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| **ID** | UC4 |
| **Name** | Remove Ingredient |
| **Description** | User wants to remove ingredient |
| **Pre-Condition** | User has ingredients in fridge |
| **Event Flow** | 1. Check which item user wants to remove 2. See if it exists in fridge and if it does remove it |
| **Extension Points** |  |
| **Triggers** | User selected the “Remove Ingredient” option |
| **Post Condition** | Fridge updated, and the fridge is shown to the user |

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| **ID** | UC5 |
| **Name** | Add Recipe |
| **Description** | User wants to upload a recipe |
| **Pre-Condition** | Account exists |
| **Event Flow** | 1. Allow user to enter recipe 2. UC6 – check for validity 3. If fine, upload recipe and show user 4. Else, UC7 re-enter recipe |
| **Extension Points** | Validate Recipe  Re-enter recipe |
| **Triggers** | User selected the “Add Recipe” option |
| **Post Condition** | Recipe DB updated, recipe is shown to user |

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| **ID** | UC6 |
| **Name** | Validate Recipe |
| **Description** | User enters recipe – validated to ensure it does not already exist in DB |
| **Pre-Condition** | User enters recipe |
| **Event Flow** | 1. Check recipe 2. If not exists, add to recipe DB and exit 3. Else, UC7, re-enter recipe |
| **Extension Points** | Re-enter recipe |
| **Triggers** | User added a new recipe |
| **Post Condition** | DB updated or user directed to re-enter UC7 |

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| **ID** | UC7 |
| **Name** | Re-enter recipe |
| **Description** | User enters invalid recipe and must re-enter a valid one |
| **Pre-Condition** | recipe entered is invalid |
| **Event Flow** | 1. Re-enter recipe 2. UC6 – check recipe again |
| **Extension Points** | Validate recipe |
| **Triggers** | User entered invalid recipe |
| **Post Condition** | DB updated or user directed to re-enter UC7 |

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| **ID** | UC8 |
| **Name** | Remove recipe |
| **Description** | User wants to remove recipe |
| **Pre-Condition** | User has recipe in fridge |
| **Event Flow** | 1. Check which recipe user wants to remove 2. See if it exists in DB and if it does remove it |
| **Extension Points** |  |
| **Triggers** | User selected the “Remove recipe” option |
| **Post Condition** | DB updated, and the confirmation is shown to the user |

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| **ID** | UC9 |
| **Name** | Add to Shopping List |
| **Description** | User wants to add to shopping list |
| **Pre-Condition** | Account exists |
| **Event Flow** | 1. Allow user to enter item |
| **Extension Points** |  |
| **Triggers** | User selected the “Add to SL option” option |
| **Post Condition** | Shopping list updated; list is shown to user |

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| **ID** | UC10 |
| **Name** | Add comment |
| **Description** | User wants to add a comment |
| **Pre-Condition** | Account exists |
| **Event Flow** | 1. Allow user to enter comment 2. UC11 – check for validity (profanity etc) 3. If fine, upload comment and show user 4. Else, UC12 re-enter comment |
| **Extension Points** | Validate comment  Re-enter comment |
| **Triggers** | User selected the “Add comment” option |
| **Post Condition** | Recipe DB updated, comment is shown to user |

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| **ID** | UC11 |
| **Name** | Validate comment |
| **Description** | User enters comment – validated to ensure it does not contain profanity |
| **Pre-Condition** | User enters comment |
| **Event Flow** | 1. Check comment 2. If good, add to recipe DB and exit 3. Else, UC12, re-enter comment |
| **Extension Points** | Re-enter comment |
| **Triggers** | User added a new comment |
| **Post Condition** | DB updated or user directed to re-enter comment UC12 |

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| **ID** | UC12 |
| **Name** | Remove Comment |
| **Description** | User/Admin wants to remove comment |
| **Pre-Condition** | User/Admin selects remove comment and admin rights if deleting another users comment |
| **Event Flow** |  |
| **Extension Points** |  |
| **Triggers** | User wants to remove comment |
| **Post Condition** | DB updated |

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| **ID** | UC13 |
| **Name** | Search Recipe |
| **Description** | User wants to search for a recipe |
| **Pre-Condition** | User taps on search bar |
| **Event Flow** | 1. Search DB based on search term/items in virtual fridge 2. Show search results to user |
| **Extension Points** |  |
| **Triggers** | User wants to search recipes |
| **Post Condition** | Display search |

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| --- | --- |
| **ID** | UC13 |
| **Name** | Search Recipe |
| **Description** | User wants to search for a recipe |
| **Pre-Condition** | User taps on search bar |
| **Event Flow** | 1. Search DB based on search term/items in virtual fridge 2. Show search results to user |
| **Extension Points** |  |
| **Triggers** | User wants to search recipes |
| **Post Condition** | Display search |

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| **ID** | UC14 |
| **Name** | Add User |
| **Description** | Allows admin to add user |
| **Pre-Condition** | Admin taps on add user and they have admin rights |
| **Event Flow** | 1. Enter email 2. Search DB based on user to check they don’t already exist 3. Input user details 4. Display confirmation message |
| **Extension Points** |  |
| **Triggers** | Admin wants to add user |
| **Post Condition** | Display user account details and confirmation |

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| **ID** | UC15 |
| **Name** | Remove recipe |
| **Description** | Allows admin to remove a user |
| **Pre-Condition** | Admin taps on remove user |
| **Event Flow** | 1. Enter email 2. Search DB based on user to check they already exist 3. Display confirmation message of deletion |
| **Extension Points** |  |
| **Triggers** | Admin wants to delete user |
| **Post Condition** | Display confirm message |

