Use Cases

for

MyPantry

Version 1.0

Prepared by Bit Legion

Z35 Group 1

27/1/2023

Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Mavis Khoo | 29/1/2023 | Created basic use cases. | 1.0 |
| Ie Jia Sheng | 30/1/2023 | Add in Use Case Diagram. | 1.1 |
| Mavis Khoo | 12/2/2023 | Added functions included in MyProfile page. Made minor changes to Use Case Descriptions. | 2.0 |
| Ie Jia Sheng | 12/2/2023 | Edited Use Case Diagram. | 2.1 |
| Mavis Khoo | 8/4/2023 | Made changes to the Use Case Descriptions to align them with the actual web app functionalities. | 3.0 |
| Ie Jia Sheng | 8/4/2023 | Aligned Use Case diagram according to actual web app implementations. | 3.1 |

Use Case Template

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| --- | --- | --- | --- |
| Use Case ID: | LOGIN.01 | | |
| Use Case Name: | Log in to account through email. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 8/4/2023 |

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| --- | --- |
| Actor: | User, MyPantry |
| Description: | User will log in to his account through email and password. |
| Preconditions: | 1. User has an account with MyPantry. 2. User has an email and a password. |
| Postconditions: | 1. User will enter his account in the web app. 2. User will not be able to enter the web app. |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | 1. MyPantry requests email and password. 2. User enters email and password. 3. MyPantry verifies the email and password. 4. If the email and password are verified, User is allowed to enter the app, the included use case INGD.01 is used to display the Pantry page. |
| Alternative Flows: | LOGIN.01.AC.S3: If the email or password are invalid.   1. MyPantry displays the message “Error signing in. Please check your email and password.”. 2. MyPantry returns to step 1.   LOGIN.01.AC.S1: If the User wants to use their Google account to log in.   1. If the User selects “Sign In with Google”, then the User uses the included use case LOGIN.02 to log in. |
| Exceptions: | LOGIN.01.EX.01: User has not verified account through the email sent to them.   1. MyPantry displays “Your email is not verified. Please check your email inbox for a verification email.”. 2. User is not allowed to enter the app. 3. MyPantry returns to step 1. |
| Includes: | INGD.01, LOGIN.02 |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

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| Use Case ID: | LOGIN.02 | | |
| Use Case Name: | Log in to account through Google account. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 8/4/2023 |

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| Actor: | User, Google Sign In API |
| Description: | User will log in to his account using their Google account. |
| Preconditions: | 1. User has a Google account. |
| Postconditions: | 1. User will enter his account in the web app. 2. User will not be able to enter the web app. |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | 1. Google Sign In API requests for Gmail account and password. 2. User enters Gmail account and password. 3. Google Sign In API verifies Google account credentials. 4. If Google account credentials are verified, User is allowed to enter the app, the included use case INGD.01 is used to display the Pantry page. |
| Alternative Flows: | LOGIN.01.AC.S4: If Gmail account and password are invalid.   1. Google Sign In API returns to step 1. |
| Exceptions: | - |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

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| Use Case ID: | LOGIN.03 | | |
| Use Case Name: | Sign up for a new account. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 8/4/2023 |

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| Actor: | User, MyPantry, Firebase |
| Description: | User will create new account. |
| Preconditions: | 1. User does not already have an account with the email. |
| Postconditions: | 1. User creates new account. 2. User cannot create new account. |
| Priority: | High |
| Frequency of Use: | Medium |
| Flow of Events: | 1. MyPantry requests full name, email, password and confirmed password. 2. User enters full name, email, password and confirmed password. 3. MyPantry verifies that full name contains 4-20 characters, and no numerical or special characters. 4. MyPantry verifies that email entered is an email. 5. MyPantry verifies that password has at least 8 characters, and contains at least one lowercase letter, one uppercase letter, one number, and one special character. 6. MyPantry verifies that confirmed password matches the password. 7. MyPantry verifies that email is not in use. 8. If the username, password and email are verified, account is created by Firebase. User receives an email to verify account. |
| Alternative Flows: | LOGIN.03.AC.S3: If full name does not contain 4-20 characters, or contains a numerical or special character.   1. MyPantry displays the message “Full name should be 4-20 characters with no numerical & special character”. 2. MyPantry returns to step 1.   LOGIN.03.AC.S4: If the email entered is not an email.   1. MyPantry displays the message “Email must be a valid email.”. 2. MyPantry returns to step 1.   LOGIN.03.AC.S5: If the password does not have at least 8 characters, or does not contain at least one lowercase letter, one uppercase letter, one number, or one special character.   1. MyPantry displays the message “8 to 24 characters. Must include uppercase and lowercase letters, a number and a special character. Allowed special characters: ! @ # $ %”. 2. MyPantry returns to step 1.   LOGIN.03.AC.S6: If the confirmed password does not match the password.   1. MyPantry displays the message “Must match the first password input field.”. 2. MyPantry returns to step 1.   LOGIN.03.AC.S7: If the email is already in use.   1. MyPantry displays the message “This email is already in use, please use another email.”. 2. MyPantry returns to step 1. |
| Exceptions: | - |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

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| Use Case ID: | INGD.01 | | |
| Use Case Name: | View ingredient list. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 8/4/2023 |

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| Actor: | User, MyPantry |
| Description: | User can view and edit the ingredient list in Pantry. |
| Preconditions: | - |
| Postconditions: | 1. Ingredients will be added or removed from Pantry. 2. Ingredients will be displayed according to User’s choice. |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | 1. User clicks on “MyPantry” on the sidebar. 2. If the User selects an ingredient on the right side, then the User uses the included use case INGD.04 to add an ingredient. 3. If the User wants to remove an ingredient from “My Pantry”, User uses the included use case INGD.02. 4. If the User wants to remove an ingredient from “Ingredients to use”, User uses the included use case INGD.03. |
| Alternative Flows: | - |
| Exceptions: | - |
| Includes: | INGD.02, INGD.03, INGD.04 |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

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| Use Case ID: | INGD.02 | | |
| Use Case Name: | Remove an ingredient from the ingredient list. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 8/4/2023 |

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| Actor: | User, MyPantry |
| Description: | User will remove an ingredient from Pantry. |
| Preconditions: | 1. There must be at least one ingredient in Pantry. |
| Postconditions: | 1. Selected ingredient is removed from Pantry. |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | 1. User clicks on “Delete” button. 2. User selects unwanted ingredient under “My Pantry”. 3. MyPantry removes the unwanted ingredient from Pantry. 4. User clicks on “Deleting from pantry” button. |
| Alternative Flows: | INGD.02.AC.S3: If User has another ingredient to remove from Pantry.   1. User returns to step 2. |
| Exceptions: | - |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

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| Use Case ID: | INGD.03 | | |
| Use Case Name: | Remove an ingredient from ingredients to be used to generate recipe. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 8/4/2023 | Date Last Updated: | 8/4/2023 |

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| Actor: | User, MyPantry |
| Description: | User will remove an ingredient from ingredients to be used to generate recipe. |
| Preconditions: | 1. There must be at least one ingredient in “Ingredients to use”. |
| Postconditions: | 1. Selected ingredient is removed from "Ingredients to use”. |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | 1. User selects unwanted ingredient under “Ingredients to use”. 2. MyPantry removes the unwanted ingredient from “Ingredients to use”. |
| Alternative Flows: | INGD.03.AC.S1: If User wants to remove all ingredients under “Ingredients to use”.   1. User clicks on “Clear” button. |
| Exceptions: | - |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

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| Use Case ID: | INGD.04 | | |
| Use Case Name: | Add an ingredient to the ingredient list. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 8/4/2023 |

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| Actor: | User, MyPantry, Recipe API |
| Description: | User will add an ingredient to Pantry. |
| Preconditions: | - |
| Postconditions: | 1. Selected ingredient is added to Pantry. |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | 1. MyPantry prompts User to key in the required ingredient. 2. User enters ingredient to be added. 3. MyPantry displays a list of ingredients from Recipe API that are related to the search. 4. User clicks on ingredient that they want to add. 5. Ingredient is added to Pantry. |
| Alternative Flows: | INGD.04.AC.S3: If ingredient cannot be found.   1. MyPantry does not display any ingredients. 2. MyPantry returns to Step 1. |
| Exceptions: | - |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

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| Use Case ID: | RECP.01 | | |
| Use Case Name: | Generate recipes. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 8/4/2023 |

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| Actor: | User, Recipe API, MyPantry |
| Description: | Recipe API generates recipes from selected ingredients. |
| Preconditions: | 1. There must be at least one selected ingredient. |
| Postconditions: | 1. At least one recipe is generated. 2. No recipes are generated. |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | 1. User selects ingredients in MyPantry to be used in recipe, and clicks Generate Recipe. 2. Recipe API generates multiple recipes based on the ingredients selected. 3. MyPantry displays the ingredients from “Ingredients to use” that are used or unused in the recipe, and the other ingredients required for the recipe that are not in “Ingredients to use”. 4. If User clicks on the picture of the recipe, then the User uses the included use case RECP.02 to get recipe details. 5. If User selects “Save this recipe”, then the User uses the included use case RECP.03 to save recipe to MyProfile. |
| Alternative Flows: | RECP.01.AC.S2: No recipes with the selected ingredients can be found.   1. MyPantry does not display any recipes. 2. User returns to step 1. |
| Exceptions: | RECP.01.EX.01: User did not select any ingredients.   1. MyPantry does not display any recipes. |
| Includes: | RECP.02, RECP.03 |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

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| Use Case ID: | RECP.02 | | |
| Use Case Name: | Show recipe information. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 29/1/2023 |

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| Actor: | User, Recipe API |
| Description: | Recipe API links website containing recipe. |
| Preconditions: | 1. User selects get recipe. |
| Postconditions: | 1. Recipe API displays link to website of recipe. |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | 1. Recipe API displays link to website containing recipe. |
| Alternative Flows: | - |
| Exceptions: | - |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | 1. All recipes in Recipe API are found on websites. |
| Notes and Issues: | - |

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| Use Case ID: | RECP.03 | | |
| Use Case Name: | Save recipe. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 29/1/2023 |

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| Actor: | User, MyPantry |
| Description: | User saves recipe to MyProfile. |
| Preconditions: | 1. User selects Save this recipe. |
| Postconditions: | 1. Recipe is saved to Favourite Recipes in MyProfile. |
| Priority: | Medium |
| Frequency of Use: | High |
| Flow of Events: | 1. MyPantry saves recipe to Favourite Recipes in MyProfile. |
| Alternative Flows: | - |
| Exceptions: | - |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | 1. There is no limit to the number of saved recipes. |
| Notes and Issues: | - |

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| Use Case ID: | RECP.04 | | |
| Use Case Name: | View Saved Recipes. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 12/2/2023 |

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| Actor: | User, MyPantry |
| Description: | User can view saved recipes on MyProfile. |
| Preconditions: | 1. User has at least one saved recipe. |
| Postconditions: | 1. MyPantry displays saved recipes. 2. MyPantry does not display any recipe. |
| Priority: | Medium |
| Frequency of Use: | Medium |
| Flow of Events: | 1. User clicks on view saved recipes in MyProfile. 2. MyPantry displays saved recipes. |
| Alternative Flows: | - |
| Exceptions: | RECP.04.EX.01: User does not have any saved recipes   1. MyPantry displays “No saved recipes”. |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

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| Use Case ID: | MART.01 | | |
| Use Case Name: | Find nearby supermarkets. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 8/4/2023 |

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| Actor: | User, GoogleMaps API, GooglePlaces API, MyPantry |
| Description: | Find supermarkets that are near to User’s current location. |
| Preconditions: | 1. User allows web app to track current location. |
| Postconditions: | 1. Nearest supermarkets are displayed on a map. 2. No map is displayed. |
| Priority: | Medium |
| Frequency of Use: | Medium |
| Flow of Events: | 1. User clicks on “Nearby Stores” on the sidebar. 2. GoogleMaps API requests for permission to access User’s current location. 3. User allows GoogleMaps API to access current location. 4. GooglePlaces API uses User’s current location to locate the nearby supermarkets within a 1.5km radius. 5. GoogleMaps API displays locations of nearby supermarkets on a map. 6. If User selects "Set Radius”, then the User uses the included use case MART.02 to change the radius from their current location where the supermarkets are found. |
| Alternative Flows: | MART.01.AC.S1: User has previously allowed GoogleMaps API to access their current location.   1. GoogleMaps API continues to Step 4. |
| Exceptions: | MART.01.EX.01: User does not allow GoogleMaps API to access their current location.   1. MyPantry does not display a map of the nearby supermarkets and the page remains blank. |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | 1. All nearby supermarkets are on Google Maps. |
| Notes and Issues: | - |

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| Use Case ID: | MART.02 | | |
| Use Case Name: | Find nearby supermarkets. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 8/4/2023 |

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| --- | --- |
| Actor: | User, GoogleMaps API, GooglePlaces API, MyPantry |
| Description: | Find supermarkets that are near to User’s current location. |
| Preconditions: | 1. User allows web app to track current location. |
| Postconditions: | 1. Nearest supermarkets are displayed on a map. 2. No map is displayed. |
| Priority: | Medium |
| Frequency of Use: | Medium |
| Flow of Events: | 1. User clicks on “Nearby Stores” on the side bar. 2. GoogleMaps API requests for permission to access User’s current location. 3. User allows GoogleMaps API to access current location. 4. GooglePlaces API uses User’s current location to locate the nearby supermarkets within a set radius (default 1.5km). 5. GoogleMaps API displays locations of nearby supermarkets on a map. |
| Alternative Flows: | MART.01.AC.S1: User has previously allowed GoogleMaps API to access their current location.   1. GoogleMaps API continues to Step 4.   MART.01.AC.S6: User sets radius from current location containing nearby supermarkets.   1. User clicks on “Set Radius” and keys in chosen radius. |
| Exceptions: | MART.01.EX.01: User does not allow GoogleMaps API to access their current location.   1. MyPantry does not display a map of the nearby supermarkets and the page remains blank. |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | 1. All nearby supermarkets are on Google Maps. |
| Notes and Issues: | - |

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| --- | --- | --- | --- |
| Use Case ID: | PROF.01 | | |
| Use Case Name: | View MyProfile. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 29/1/2023 | Date Last Updated: | 12/2/2023 |

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| --- | --- |
| Actor: | User, MyPantry |
| Description: | User can view MyProfile. |
| Preconditions: | 1. User has an account on MyPantry. |
| Postconditions: | 1. MyPantry displays MyProfile details of User. |
| Priority: | Medium |
| Frequency of Use: | Low |
| Flow of Events: | 1. User clicks on MyProfile icon on the bottom right of the screen. 2. MyPantry displays MyProfile details of User. 3. If User selects Edit Profile, then the User uses the included use case PROF.02 to edit MyProfile. 4. If User selects Favourite Recipes, then the User uses the included use case RECP.04 to view list of favourite recipes saved in MyProfile. |
| Alternative Flows: | - |
| Exceptions: | - |
| Includes: | PROF.02, RECP.04 |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

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| --- | --- | --- | --- |
| Use Case ID: | PROF.02 | | |
| Use Case Name: | Edit MyProfile. | | |
| Created By: | Mavis Khoo | Last Updated By: | Mavis Khoo |
| Date Created: | 12/2/2023 | Date Last Updated: | 12/2/2023 |

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| --- | --- |
| Actor: | User, MyPantry |
| Description: | User can edit details in MyProfile. |
| Preconditions: | 1. User has an account on MyPantry. |
| Postconditions: | 1. MyPantry edits MyProfile details of User. 2. MyPantry does not edit any details in MyProfile. |
| Priority: | Medium |
| Frequency of Use: | Low |
| Flow of Events: | 1. User clicks on Edit Personal Information. 2. MyPantry displays options of which detail to be edited. 3. If User inputs new name, MyPantry checks that name does not contain any numerical or special characters. MyPantry updates name. 4. If User inputs new date of birth, MyPantry updates date of birth. |
| Alternative Flows: | PROF.02.AC.S3: If User inputs new name that contains numerical or special characters   1. MyPantry displays “Name contains numerical/special characters”. 2. MyPantry returns to step 1. |
| Exceptions: | - |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

Chart, diagram

Description automatically generated