**Team 5 – MealBrain**

Team:

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COMP 495

**Initial Functional Requirements**

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| **Requirement Number** | **Requirement Name** | **Description and Acceptance Criteria** | **(R)equired, (O)ptional, (S)tretch goal** |
| **00 General** | | | |
| **00** | General |  |  |
| **00.1** | User action confirmation | Users will be given alerts and confirmations when performing actions such as create, modify, and delete of recipes, meal plans, and grocery lists | **R** |
| **00.2** | User action notification | Users will be notified of the effect of their actions that will cause changes to data permanence, including creation, modification, and deletion of recipes, meal plans, and grocery lists | **R** |
| **00.3** | User themes | Users will be able to change the color theme of the application | **S** |
| **01 Accessibility** | | | |
| **01** | Accessibility Features | The application will be accessible to people with disabilities and impairments, including visual impairment |  |
| **01.1** | Image text | A user with a disability or impairment will be able to hear a description of any images | **R** |
| **01.2** | Navigation | A user with a disability or impairment will be able to navigate the application (via audio cues) | **R** |
| **02 User Accounts** | | | |
| **02** | User Accounts | Users will be able to create and manage user accounts on the local application |  |
| **02.1** | Create Account | Users will be able to create user accounts | **R** |
| **02.2** | Modify Account | Users will be able to modify their account information | **R** |
| **02.3** | Select Account | Application users will be able to select app user accounts and access that account’s recipes, meal plans, and grocery lists | **R** |
| **02.4** | Account Dashboard | Users will be able to access a dashboard that will allow them to access their recipes, meal plans, and grocery lists | **R** |
| **02.5** | Password Protect User Accounts | A user will be able to password protect local user accounts (personal or business) | **S** |
| **03 Recipes** | | | |
| **03** | Recipes | A user will be able to create and manage their own recipes on the local application |  |
| **03.1** | Create Recipes | A user will be able to create recipes | **R** |
| **03.2** | Modify Recipes | A user will be able to modify their own recipes | **R** |
| **03.3** | Delete Recipes | A user will be able to delete their own recipes | **R** |
| **03.4** | Recipe Filtering | A user will be able to get all of their recipes by specifying a list of tags | **R** |
| **03.5** | Recipe Filtering | A user will be able to get all of their recipes that contain either A) at least one of or B) every one of, a list of ingredients | **R** |
| **03.6** | Recipe Filtering | A user will be able to get all of their recipes with names containing the text the user entered | **R** |
| **03.7** | Import Recipes | A user will be able to import recipes from files (csv files) | **S** |
| **03.8** | Export Recipes | A user will be able to export their list of recipes to a file (csv files) | **S** |
| **03.9** | Import Recipes (from common recipe sites) | A user will be able to pull recipes from common recipe sites like allrecipes.com, family freezer, and similar (come up with limited list); this includes select site, search recipes, and import selected recipe | **S** |
| **04 Meal Plans** | | | |
| **04** | Meal Plans (Personal/Family) | A user will be able to create and manage their own weekly meal plans |  |
| **04.1** | Create Meal Plans | A user will be able to create meal plans from their recipes | **R** |
| **04.2** | Modify Meal Plans | A user will be able to modify their own meal plans | **R** |
| **04.3** | Delete Meal Plans | A user will be able to delete their own meal plans | **R** |
| **04.4** | Meal Plan Filtering | A user will be able to filter their meal plans by one or more date week(s) (Sunday – Saturday) | **R** |
| **05 Grocery Lists** | | | |
| **05** | Grocery Lists | A user will be able to create, modify, and delete grocery lists, that are created by selecting specific meal plans and recipes |  |
| **05.1** | Create Grocery Lists | A user will be able to create grocery lists from their meal plans and recipes | **R** |
| **05.2** | Modify Grocery Lists | A user will be able to modify their own grocery lists | **R** |
| **05.3** | Delete Grocery Lists | A user will be able to delete their own grocery lists | **R** |
| **06 Cloud Integration** | | | |
| **06** | Cloud Sync/Account Sync | A user will be able to register for a cloud account that will allow them to sync their recipes, meal plans, and grocery lists to a cloud platform and accessible from the application on other devices |  |
| **06.1** | Register a new account | A user will be able to register for a cloud integrated account | **S** |
| **06.2** | Link existing account | A user will be able to link their app with an existing cloud integrated account | **S** |
| **06.3** | Unlink account | A user will be able to unlink an existing cloud account from their application | **S** |
| **06.4** | Sync Recipes | A user will be able to sync their recipes with their cloud account | **S** |
| **06.5** | Sync Meal Plans | A user will be able to sync their meal plans with their cloud account | **S** |
| **06.6** | Sync Grocery Lists | A user will be able to sync their grocery lists with their cloud account | **S** |
| **07, 08 Meal Brain for Business** | | | |
| **07** | User Accounts | A user will be able to create or upgrade to a Business account subscription |  |
| **07.1** | Create Account | An application user will be able to create an account with a Business Plan subscription | **S** |
| **07.2** | Convert Account | A user will be able to convert an existing account with a Personal Plan to a Business Plan subscription, and convert from a Business Plan subscription to a Personal Plan | **S** |
| **08** | Bulk Order Lists | A user with a Business Plan will be able to create and manage bulk orders that consist of large quantities of recipes | **S** |
| **08.1** | Create Bulk Order | A user with a Business Plan account will be able to create a Bulk Order | **S** |
| **08.2** | Modify Bulk Order | A user with a Business Plan account will be able to modify a Bulk Order | **S** |
| **08.3** | Delete Bulk Order | A user with a Business Plan account will be able to delete a Bulk Order | **S** |
| **08.4** | Create Order List | A user with a Business Plan account will be able to generate a grocery list of their bulk order | **S** |
| **09 Social Media** | | | |
| **09** | Social Media Sharing | A user will be able to share their recipes through social media |  |
| **09.1** | Link to Account | A user will be able to link their application to social media accounts (X, Pinterest, Instagram, etc) | **S** |
| **09.2** | Unlink Account | A user will be able to unlink their application from a social media account | **S** |
| **09.3** | Share Recipe | A user will be able to share individual recipes from their recipes through social media accounts | **S** |

**User Stories – Required**

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| **Requirement:** 00 General |
| **Description:** As a user I would like to be notified of how my actions to create, modify, or delete recipes, meal plans, and grocery lists, will impact other recipes, meal plans, and grocery lists. I would like to be able to confirm or cancel the action before it occurs.  *Acceptance Criteria*:   * User is notified how other recipes, meal plans, and grocery lists will be affected by an action to create, modify, or delete a recipe, meal plan, or grocery list * User is allowed to cancel or confirm the action |

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| **Requirement:** 01 Accessibility Features |
| **Description:** As a user with a visual impairment I would like to be able to use the application. I would like to be able to hear what an image is, and to navigate the application and know what is on the screen.  *Acceptance Criteria*:   * User is able to hear a description of an image * User is able to hear a description of the contents of the screen * User is able to hear the content they are navigating |

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| **Requirement:** 02 User Accounts |
| **Description:** As a user I would like to be able to create and manage an account so I can keep track of my recipes, meal plans, and grocery lists separate from other users.  *Acceptance Criteria*:   * User is able to create a user account * User is able to access a dashboard with their recipes, meal plans, and grocery lists * User is able to modify their name and display name |

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| **Requirement:** 03 Recipes |
| **Description:** As a user I would like to be able to create and manage recipe cards with information on what the recipe is, what it needs, and how to make it. I would like to be able to look at my recipe list for recipes that I have tagged with labels of my choosing. I would like to be able to create a recipe without having to fill in all of the information at one time. I would like to filter my recipes by ingredients; I would like to be able to filter for recipes that have at least one of a set of ingredients or that have all of a set of ingredients. I would like to be able to search my recipe names.  *Acceptance Criteria*:   * User is able to create a recipe from their dashboard and only provide the name * User is able to modify their recipe’s name, description, list of ingredients, list of instructions, and tags * User is able to filter their recipes list by tags * User is able to filter their recipe list by any or all of a list of ingredients * User is able to filter their recipe list by names that contain text they type * User is able to delete a recipe from their recipes * If a user tries to delete a recipe they are notified of any meal plans or grocery lists that recipe is a part of * If a user deletes a recipe that is part of a meal plan or list, a placeholder fills its position in that meal plan or grocery list until changed * User is able to save the recipe card * User is able to export the recipe card to a file (CSV file) |

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| **Requirement:** 04 Meal Plans |
| **Description:** As a user I would like to create and manage weekly meal plans for breakfast, lunch, dinner, and snacks, from my recipes. I would like to be able to make multiple meal plans for a week. I would like to be able to create a meal plan without having to fill in all of the information at one time.  *Acceptance Criteria*:   * User is able to create a meal plan from their dashboard and only choose the week date-range * User is able to modify their meal plan’s name, week date-range, and chosen recipes * User is able to delete a meal plan from their meal plans * User is able to filter their meal plans by one or more week ranges * If a user tries to delete a meal plan they are notified of any grocery lists that meal plan is part of * If a user deletes a meal plan that is part of a grocery list, a placeholder fills its position in that grocery list until changed * User is able to save the meal plan * User is able to export the meal plan to a file (CSV file) |

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| **Requirement:** 05 Grocery Lists |
| **Description:** As a user I would like to create and manage grocery lists by choosing from my recipes and meal plans. I would like it to calculate the total amount of every unique ingredient converted to the largest measurements it can (so if I have 200 ounces of a liquid it converts it to 1 gallon and 72 ounces).  *Acceptance Criteria*:   * User is able to create a grocery list from their dashboard or from a chosen recipe or meal plan * User is able to create a grocery list with only a name for the list * User is able to modify the name, meal plans, and recipes on the grocery list * Grocery list calculates the total amount of each ingredient needed * Ingredient totals are converted to largest possible measurement types * User is able to save the grocery list * User is able to export the grocery list to a file (CSV file) |

**User Stories – Stretch goals**

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| **Requirement:** 00 General |
| **Description:** As a user I would like to change the theme on the application to different color schemes. I would also like a Dark mode.  *Acceptance Criteria*:   * User is able to choose a theme and the color scheme of the application changes * User is able to choose a dark mode as one of the themes for the application |

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| **Requirement:** 02 User Accounts |
| **Description:** As a user I would like to password protect my account.  *Acceptance Criteria*:   * User is able to enable password protection on their account * User is able to change the password on their local account * User is able to recover the password on their local account |

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| **Requirement:** 03 Recipes |
| **Description:** As a user I would like to be able to import new recipes from a file. I would also like to be able to export my list of recipes to a file. I would like to be able to look up recipes on recipe websites and import those recipes.  *Acceptance Criteria*:   * User is able to import a comma-delimited file (CSV) of recipes and new recipes are created * User is able to export a comma-delimited file (CSV) of their own recipes * User is able to import recipes from allrecipes.com |

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| **Requirement:** 06 Cloud Integration |
| **Description:** As a user I would like to sync my recipes, meal plans, and grocery lists to the cloud so I can access them from the application on another device. I would like to be able to share recipes, meal plans, and grocery lists from the cloud.  *Acceptance Criteria*:   * Application user is able to register for a Meal Brain cloud account with their email and password * User is able to link their application to an existing Meal Brain cloud account * User is able to unlink their Meal Brain account from the application * User is able to sync their recipes with their cloud account * User is able to sync their meal plans with their cloud account * User is able to sync their grocery lists with their cloud account * User is able to access their cloud-stored recipes with their application (on a different device) * User is able to access their cloud-stored meal plans with their application (on a different device) * User is able to access their cloud-stored grocery lists with their application (on a different device) |

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| **Requirement:** 07, 08 Meal Brain for Business |
| **Description:** As a business owner I would like to be able to create bulk meal plans. The standard meal plans do not allow me to make a large meal plan or bulk order list.  *Acceptance Criteria*:   * User is able to create a user account subscribed to a Business Plan * User is able to subscribe an existing application user account to a Business Plan * User is able to create bulk meal plans that allow them to add recipes and set quantities for them * User is able to create a bulk order list from existing bulk meal plans and recipes * User is able to see the total amount of each ingredient they will need to order * User is able to create a bulk meal plan with just a name and week date-range * User is able to modify a bulk meal plan’s name, week date-range, chosen recipes, and quantities * User is able to delete bulk meal plans * If a user tries to delete a bulk meal plan, they are notified of any bulk order lists that it is a part of * If a user deletes a bulk meal plan that is part of a bulk order list, a placeholder fills its position in that list until it is changed * User is able to save the bulk meal plan * User is able to export the bulk meal plan to a file (CSV) * User is able to create a bulk order list with only a name for the list * User is able to modify the name, bulk meal plans, and recipes/quantities on the bulk order list * Bulk order list calculates the total amount of each ingredient needed (Converted to the largest measurement possible) * User is able to save the bulk order list * User is able to export the bulk order list to a file (CSV) |

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| **Requirement:** 09 Social Media |
| **Description:** As a user I would like to be able to share my recipes through my social media accounts like X, Instagram, and Pinterest.  *Acceptance Criteria*:   * User is able to link to their X account * User is able to share an individual recipe to their X account * User is able to unlink from their X account * As the above three but for Instagram, Pinterest, and Facebook |