Assignment 2: Software Requirements Specification

Team: 4

Project Title: DINNERS DONE!

## Members:

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| **Meetings date** | **Participants** |
| 05/25/2022 | Kristina, Cody, Mohammed, Bruno, Hilda |
| 05/26/2022 | Kristina, Mohammed, Cody, Bruno, Hilda, Omar |
| 05/27/2022 | Kristina, Cody, Bruno, Mohammed, Hilda, Omar |
| 05/28/2022 | Kristina, Mohammed, Cody, Bruno, Hilda |
| 05/29/2022 | Kristina, Cody, Mohammed, Bruno |
| 05/30/2022 | Kristina, Mohammed, Cody, Bruno |

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| **Stakeholders** | **Requirements** |
| Users  \*(FR6: Users, System admin, Advertising)  \*\*(FR14: Users, site owners, legal department) | FR1: Ability to create account (name, username, email, password)  FR2: Site will allow user sign in  FR3: Account information will be saved  FR4: Ability to remember username  FR5: Ability to reset password  \*FR6: Ability to receive emails from site  FR7: Ability to add recipes to master list  \*\*FR8: Recipes will have a valid hyperlink to site from which obtained that credits author  FR9: User can duplicate recipes as needed  FR10: Searchable ingredients  FR11: Ability to reset input fields  FR12: Ability to save recipes to favorites list  FR13: User-provided recipes will be saved for later use  FR14: Ability to add recipes to personal list as desired  FR15: Ingredients of every chosen recipe added into one main shopping list  FR16: User will be able to display/print final list of ingredients |
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| User  Site owners (legal) | NR1: Maintenance of Privacy  NR2: System Security |
| Users  Site owners | NR3: The website will be easily navigated, visible, and functional using tablet or mobile device with same abilities as provided on PC.  NR4: System services should work at any given time with full functionality.  NR5: Users will only be allowed access to functions and information that is allowed to them at given time of request. |
| Users | NR6: Recipes will be representative of multiple types of cuisine. |

**FUNCTIONAL REQUIREMENTS:**

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| **FR1. Create account** | | |
| Goal: There will be an option for new users to create a personal account. | | |
| Stakeholders: Users | | |
| Allows new users to sign up and create an account. When creating an account, we will require the user to declare a username and password as well as adding an email address for verification. All valid accounts will be saved in the user database. | | |
| Origin: Based on initial project proposal and specifications, team members decided on this functionality during the first meeting. | | |
| Version: 1.0 | Date: 05/15/2022 | Priority: 1 |

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| **FR2. Login interface** | | |
| Goal: The website will display a login option that will allow users greater functionality. | | |
| Stakeholders: Users | | |
| When the user enters the website there will be a login option. If selected, the user will have the option to sign in (if an account has previously been created) or sign up in the case of a new user. This login will require the username and password both to be entered correctly to gain access to the requested account. Utilizing the login option will allow users to save favorite recipes, add new recipes, and reselect previously chosen options. | | |
| Origin: Our team agreed to this during a group meeting during the first week of meetings (5/15). | | |
| Version: 1.0 | Date: 05/26/2022 | Priority: 1 |

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| **FR3. Account information will be saved** | | |
| Goal: The system will save all information provided at the time of user sign-up (and later changes, if applicable). | | |
| Stakeholders: Users | | |
| When a user creates a new account on the website, the information provided will be saved into the user database. This will prevent multiple accounts originating from the same email address. This will also allow for favorite and saved recipes from the recipe DB to be linked to that user. | | |
| Origin: After considering issues that can be caused by multiple accounts belonging to a single user, this solution was added via group input. | | |
| Version: 1.0 | Date: 05/30/2022 | Priority: 2 |

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| **FR4. Remember username** | | |
| Goal: The login page will remember the last account username entered. | | |
| Stakeholders: Users | | |
| When a user logs into his/her account, he/she will have the option to select “Remember Username” button. If selected, the site will save the last username entered. Upon user’s return, saved username will be automatically entered into Username box on login screen. | | |
| Origin: Based on the initial project presentation and specification document, team members produced this description during the first meeting. | | |
| Version: 1.0 | Date: 05/27/2022 | Priority: 4 |

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| **FR5. Reset Password** | | |
| Goal: Ability to reset a forgotten password | | |
| Stakeholders: Users | | |
| If a user forgets his/her account password, he/she can select the “Forgot Password” option on the login interface and will then be redirected to the Reset Password page. This page will require the user to enter the email address associated with the account. If the information provided is valid, the system will send an email to that account with a link to reset the password. | | |
| Origin: During a group meeting, members decided this would be an important inclusion in users’ lists of desired site attributes. | | |
| Version: 1.0 | Date: 5/26/2022 | Priority: 4 |

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| **FR6. Ability of user to receive emails** | | |
| Goal: Option for users to allow emails from site | | |
| Stakeholders: Users, System admin, Advertising | | |
| Users will have the option to allow/disallow system-generated emails. Users will be advised that correspondence from system can/will include the following: issues regarding his/her account, promotion of new and featured recipes, and regular newsletters from site. | | |
| Origin: After discussing possible user-desired attributes and site promotion, team members agreed to add this functionality. | | |
| Version: 1.0 | Date: 05/30/2022 | Priority: 5 |

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| **FR7: User will be able to choose recipes** | | |
| Goal: The user will be able to select any recipes from the site to add to a master list. | | |
| Stakeholders: Users | | |
| User will be able to search recipe database and add any number of desired recipes to “Current List.” This list functions as the master list from which the final “Shopping List” will be determined. After selecting at least 1 option, the user can select “Add to List” button to add the current selections to the master list. | | |
| Origin: Based on initial project proposal, this is main functionality of site and was included from inception. | | |
| Version: 1.0 | Date: 05/20/2022 | Priority: 1 |

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| **FR8. Recipes will have a valid hyperlink to the website from which they were obtained that credits the author.** | | |
| Goal: All recipes added from outside sources will include hyperlink to original recipe site, as well as author information if available. | | |
| Stakeholders: Users, Site owners, legal department | | |
| All recipes will be protected under copyright as is required by law. This will include a hyperlink to the site on which the recipe was obtained, author information, and/or any other identifying legal information. Recipes added by users will also conform to these regulations.  \*Should recipes be added from other sources such as cookbooks, the publishing information will be used in place of the hyperlink. | | |
| Origin: Input and questions during first presentation (5/24) presented need to ensure legal responsibilities addressed in this manner. | | |
| Version: 1.0 | Date: 05/15/2022 | Priority: 3 |

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| **FR9. User can duplicate recipes as needed** | | |
| Goal: The user will have the ability to select additional multiples of the current recipe. | | |
| Stakeholders: Customers | | |
| The site’s recipe information includes how many people a recipe is meant to feed. The user can duplicate the amount of ingredients as many times needed to ensure the selection (and list of ingredients) will appropriately reflect the number of servings the user desires. | | |
| Origin: After discussing ways in which to make the site function well for families of any size, the team members agreed to this addition the day before the first presentation (5/24). | | |
| Version: 1.0 | Date: 05/24/2022 | Priority: 3 |

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| **FR10. Searchable ingredients** | | |
| Goal: The user will be able to search the database for a particular ingredient (chicken, beef, etc.) and will be provided with only the recipes that include that ingredient. | | |
| Stakeholders: Users | | |
| The user will be able to utilize a search bar to enter any ingredient. After entering the ingredient, the recipe list displayed will all include the searched ingredient. This will allow users to plan meals around a particular item. | | |
| Origin: This functional ability was added following team member input during recent meeting (week of 5/22). | | |
| Version: 1.0 | Date: 05/29/2022 | Priority: 5 |

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| **FR11. Resetting input fields** | | |
| Goal: The website will allow users to reset all selected options, instead of unselecting them one by one. | | |
| Stakeholders: Users | | |
| User will have the ability to select multiple recipes prior to selecting “Save.” Should the user opt to restart any selection process, he/she will be able to click a “Reset” button. Selection of this button will reset all currently selected (unsaved) options, therefore not requiring the user to deselect them one by one. Following the reset the user may reselect his/her options as desired. | | |
| Origin: Our team members produced this option during a WhatsApp group discussion during the week of 5/22/2022. | | |
| Version: 1.0 | Date: 05/28/2022 | Priority: 5 |

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| **FR12. Save favorite recipes** | | |
| Goal: The website will have a “Save to Favorites” button that will save selected recipe into user’s personal favorites list. | | |
| Stakeholders: Users | | |
| When viewing recipe list, user will have the ability to add any recipe to “Favorites” list. Selecting “Save to Favorites” button will add selected recipe(s) to the favorites list associated with the user’s account. Users will be able to view any saved recipe at any time. When a recipe on the Favorites list is being viewed, it will display all the ingredients required. | | |
| Origin: During a zoom meeting on the week of 5/22, team members decided to add this functionality for user benefit and to add attraction to site. | | |
| Version: 1.0 | Date: 05/24/2022 | Priority: 3 |

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| **FR13. Delete Saved Meals** | | |
| Goal: The website will allow users to delete any saved meals from their dashboard. | | |
| Stakeholders: Users | | |
| From “Favorites” tab, user will be able to see a list of all his/her saved meals. One of the options for actions able to be performed on that list will be “Delete.” Should the user wish to remove any saved selection from that list, selecting the box next to the appropriate choice(s) and subsequently clicking the “Delete” button will remove the selected recipe(s) from user’s “Favorites” list. | | |
| Origin: During discussions on user-desired attributes, this option was added by team-member input. | | |
| Version: 1.0 | Date: 05/28/2022 | Priority: 4 |

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| **FR14. Add new recipes** | | |
| Goal: The website will allow users to enter and save their own meals. | | |
| Stakeholders: Users | | |
| Users will be able to submit and save new recipes via an input form. These recipes will be accessible only to the user’s account on which they were entered (and the system). Any new recipe will require a hyperlink and/or author credit if it originates from anyone other than the user. A textbox including this legal information will be located at the bottom of the input form and require the user to read and check the box indicating his/her compliance with this legal regulation.  The “Add New Recipe” form will contain input fields for name (cannot be left blank), link (cannot be left blank), number served, and ingredients required. | | |
| Origin: Based on the initial project presentation and specification document, this is one of the key elements of the site and was included in the initial meeting. | | |
| Version: 1.0 | Date: 05/28/2022 | Priority: 2 |

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| **FR15. Function to add all ingredients of every chosen recipe into one final list** | | |
| Goal: Every ingredient of each recipe added to “Current List” will be combined onto one master list. | | |
| Stakeholders: System admin, users (as allows for printing/displaying) | | |
| As the user adds recipes onto “Current List,” all the ingredients required for each will be added onto a master list. If the user chooses a multiple of the recipe other than 1, the ingredients added to the master list will reflect that multiplied necessary addition. | | |
| Origin: Based on initial project proposal, this is one of the main functions of the project and was included from inception. | | |
| Version: 1.0 | Date: 05/20/2022 | Priority: 1 |

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| **FR16. Print List of ingredient totals** | | |
| Goal: Ability to print the total ingredients of all selected meals. | | |
| Stakeholders: Users | | |
| After the user selects the recipes (there must be minimum of one), he/she will have the option of printing the list that includes all ingredients totaled from all recipes selected by use of a “Display List” button. The list of ingredients will be displayed on a new screen. The website will then provide an option to print these ingredients to an external print device via a “Print List” button. | | |
| Origin: Team members decided on this attribute during our preparation for our first PowerPoint presentation. | | |
| Version: 1.0 | Date: 5/20/2022 | Priority: 2 |

**NON-FUNCTIONAL REQUIREMENTS:**

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| **NR1. Maintenance of Privacy** | | |
| Goal: The system will maintain the integrity of customer account information and will not disclose any customer's personal information. | | |
| Stakeholders: User | | |
| When a user creates an account, the system will only collect basic information as needed to verify and establish an account. The system will ensure that passwords are encrypted. The system will keep all user information confidential and safe. No personal information of any user will be disclosed to any other source. Any user-entered recipes will also be protected and only accessed by the user and system, as required to fulfil the user’s needs. | | |
| Origin: In team meetings during week of 5/22, this requirement was added after being deemed essential and expected. | | |
| Version: 1.0 | Date: 05/28/2022 | Priority: 3 |

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| **NR2. System Security** | | |
| Goal: The software will remain resilient in the face of attacks, and it will be correct and predictable. | | |
| Stakeholders: Customers | | |
| The website will be secure following the normal standards with a reliable host, monitoring service, and data backup. The website behavior should be normal with minimal downtime in case of an attack. | | |
| Origin: This was added during discussions of security concerns during the week of 5/22. | | |
| Version: 1.0 | Date: 05/28/2022 | Priority: 1 |

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| **NR3. Simple and user-friendly website (Usability)** | | |
| Goal: The website will run smoothly on a tablet or mobile device. The customer will be able to navigate through the website easily. | | |
| Stakeholders: Users | | |
| When a user tries to use the website from a mobile device (or any device with a relatively small viewport), the site will be easily visible and traversable. All functionality available on a PC will also be available on smaller devices. The user will have no difficulties navigating through the website while using any device. The site will require no training to traverse as it will be easily understood. | | |
| Origin: After discussing customary website criteria during group meetings in week of 5/22, group members added this as it was considered essential to HCI best-practices. | | |
| Version: 1.0 | Date: 05/29/2022 | Priority: 1 |

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| **NR4. No time limit for accessing and printing recipes (Availability)** | | |
| Goal: To be able to access recipes the user wants at any time | | |
| Stakeholders: User | | |
| The users will be able to access any recipe on the site database, favorites list, or personally added recipes at any time. The user will also be able to save and print recipes at any time. | | |
| Origin: Based on the first project presentation and after discussing customary website criteria during group meetings in week of 5/22, group members agreed to add this requirement. | | |
| Version: 1.0 | Date: 05/27/2022 | Priority: 4 |

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| **NR5. Users will only be allowed access to functions and information that is allowed to them at given time. (Security)** | | |
| Goal: A user will not be allowed any functionality that is not specifically allowed. A user will not be able to access recipes added by other users | | |
| Stakeholders: Users, site owners | | |
| A user will not be allowed any functionality that is not specifically allowed. A user will not be able to access recipes added by other users | | |
| Origin: Upon group members’ input, this was added to make the site attractive to the largest possible user-base. | | |
| Version: 1.0 | Date: 05/30/2022 | Priority: 4 |

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| **NR6. Recipes will be representative of multiple types of cuisine (Usability)** | | |
| Goal: Diverse choice of recipes in site-provided database so that user can easily find and access desired output. | | |
| Stakeholders: Users, site owners (desirability) | | |
| The site’s recipe database will include diverse types of cuisine. This will serve as a method of inclusion for a multitude of cultures. This will also promote the site’s variety of options and serve to be desirable to a large customer base. | | |
| Origin: Upon group members’ input, this was added to make the site attractive to the largest possible user-base and set up a more user-desired site. | | |
| Version: 1.0 | Date: 05/30/2022 | Priority: 5 |