

# Recipe Search Engine

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# Overview

Our project is a recipe search engine. The client should be able to enter a different list of ingredients that they want to use in the recipe, and our program should return a list of recipes that not only “use” those ingredients, but also have a function that only includes those ingredients. For example, if the user only enters spinach as a recipe, then the engine should only return spinach recipes, and the function should only return spinach recipes where spinach is the only ingredient. There should also be other functions to include seasoning, common ingredients, and other things. The user should be able to log in and save recipes that they like as well.



## **User Story: Inclusion of Ingredients**

The user wants to find a recipe with the ingredients included in the search. The user selects the ingredients that they want to be included in the search and selects a search button. The system will search for any recipe that includes the ingredients and displays it to the user.



Goal	User wants to finds a recipe including specific ingredients
Primary Actor	User
Precondition	User has logged in. User has selected ingredients
Success End Condition	Recipes have been found.
Failure End Condition	Recipes have not been found.
Secondary Actors	N/A
Trigger	User clicks search button
Main Success Scenario	<ol style="list-style-type: none"><li>1. User enters account and password</li><li>2. System presents a screen with food items</li><li>3. User selects each food item desired / Searches for ingredient</li><li>4. User clicks search button</li><li>5. System displays recipes with desired ingredients</li></ol>
Error Scenarios	<ol style="list-style-type: none"><li>1. User searches ingredient that does not exist</li><li>2. User enters incorrect password to account. System returns user to login.</li><li>3. System can not find any recipes including the specific ingredients.</li></ol>



## **User Story: Inclusion of ONLY Ingredients**

The user wants to find recipes which only include the ingredients that they enter to the search bar. The user enters said ingredients into the search bar. The user clicks the search buttons. The ingredients are queried to the database and the recipes that match are displayed to the user. The displayed recipes should only include the ingredients that the user entered. If none of the recipes exist, then nothing is displayed.



Goal	User wants to find recipes with ONLY specific ingredients
Primary Actor	User
Precondition	User has logged in. User has selected ingredients
Success End Condition	Recipes have been found.
Failure End Condition	Recipes have not been found.
Secondary Actors	N/A
Trigger	User clicks search button
Main Success Scenario	<ol style="list-style-type: none"><li>1. User enters account and password</li><li>2. System presents a screen with food items</li><li>3. User selects each food item desired / Searches for ingredient</li><li>4. User clicks search button</li><li>5. System displays recipes with desired ingredients</li></ol>
Error Scenarios	<ol style="list-style-type: none"><li>1. User searches ingredient that does not exist</li><li>2. User enters incorrect password to account. System returns user to login.</li><li>3. System can not find any recipe only containing the ingredients selected.</li></ol>



## **User Story: Exclusion of Ingredients**

The user wants to find a recipe without specific ingredients when searching for a recipe. The user selects the ingredients that they want to be excluded in the search and selects a search button. The system will search for any recipe that does not include the ingredients and displays it to the user.



Goal	User wants to find exclude certain ingredients from all recipes
Primary Actor	User
Precondition	User has logged in. User has selected exclusion ingredients. User has selected ingredients
Success End Condition	Recipe found without excluded ingredients.
Failure End Condition	Recipes have not been found without excluded ingredients.
Secondary Actors	N/A
Trigger	User clicks exclude button
Main Success Scenario	<ol style="list-style-type: none"><li>1. User enters account and password</li><li>2. System presents a screen with food items</li><li>3. User selects each food item to be excluded / Searches for ingredient</li><li>4. System excludes any recipe with the selected ingredients.</li></ol>
Error Scenarios	<ol style="list-style-type: none"><li>1. User searches ingredient that does not exist</li><li>2. User enters incorrect password to account. System returns user to login.</li><li>3. System can not find any recipe only containing the ingredients selected.</li></ol>





## **User Story: Save recipe**

The user finds a recipe that they like or want to use later. The user selects a favorite icon next to the recipe that they want to save for later. The system will save the recipe to the user's profile, so the user can come back to it again.



Goal	User wants to save recipes to profile
Primary Actor	User
Precondition	User has logged in. User has selected ingredients. User has searched for recipes. User has found a recipe they like.
Success End Condition	Recipe gets saved to profile
Failure End Condition	Recipe does not gets saved to profile
Secondary Actors	N/A
Trigger	User clicks save button next to recipe
Main Success Scenario	<ol style="list-style-type: none"><li>1. User enters account and password</li><li>2. System presents a screen with food items</li><li>3. User selects each food item desired / Searches for ingredient</li><li>4. User clicks search button</li><li>5. System displays recipes with desired ingredients</li><li>6. User saves desired recipe by using save button</li></ol>
Error Scenarios	<ol style="list-style-type: none"><li>1. User searches ingredient that does not exist</li><li>2. User enters incorrect password to account. System returns user to login.</li><li>3. System can not find any recipe</li><li>4. System cannot store recipe on user's profile correctly</li></ol>



## User Story: Report recipe

The user finds a recipe that is “undesirable” (incorrect or doesn’t make any sense) and wants to report it. The user clicks a flag icon next to the recipe, and the user can type in a reason, if they want to. The system sends a report to the developers about the flagged recipe.



Goal	User wants to report a recipe
Primary Actor	User
Precondition	User has logged in. User has selected ingredients. User has searched for recipes. User has found a recipe.
Success End Condition	A report has been sent to developers about an “undesirable” recipe.
Failure End Condition	Report is not sent to developers.
Secondary Actors	N/A
Trigger	User clicks report button next to any recipe
Main Success Scenario	<ol style="list-style-type: none"><li>1. User enters account and password</li><li>2. System presents a screen with food items</li><li>3. User selects each food item desired / Searches for ingredient</li><li>4. User clicks search button</li><li>5. System displays recipes with desired ingredients</li><li>6. User reports “undesirable” recipe by using report button</li></ol>
Error Scenarios	<ol style="list-style-type: none"><li>1. User searches ingredient that does not exist</li><li>2. User enters incorrect password to account. System returns user to login.</li><li>3. System can not find any recipe</li><li>4. System does not receive report/cannot receive report</li></ol>