

2.7

Implement search for recipes

I want users to be able to search for recipes that **don't contain specific allergens**, to make it easy for users with some food restriction(s) to search for their next recipe.

To do that, I want to provide a field in which users will be able to write one or some allergen(s) (milk, nuts, eggs...), and then return all the recipes that **do not** contain these elements.

Briefly:

What I want users to search for: recipes without X allergen(s)

Criterion for search: allergen(s) name(s) written by users

Format of output: a list/table of all the recipes not containing this/these allergen(s), along with 3 different charts built/based on the generated list/table and providing extra information

Data Analysis

* All the charts are displayed based on user inputs.

Visualization using a bar chart: When a user will enter an allergen in the search field, all the recipes that **don't contain** this allergen will be shown in a table. Then, based on that table, the bar chart will display:

On the y axis: the number of recipes

On the x axis: the origin country

This allows to show how many recipes in total per origin country are available to eat for someone with specific food restriction(s) (allergen.s).

Visualization using a pie chart: When a user will enter an allergen in the search field, all the recipes that **don't contain** this allergen will be shown in the table. Then, based on that table, the pie chart will display:

The percentage (%) of recipe available per category

This allows to show which recipe category (dessert, juice, dinner, breakfast...) have the most recipes available to eat for someone with specific food restriction(s) (allergen.s).

Visualization using a line chart: When a user will enter an allergen in the search field, all the recipes that **don't contain** this allergen will be shown in the table. Then, based on that table, the line chart will display:

On the y axis: the cumulative number of recipes

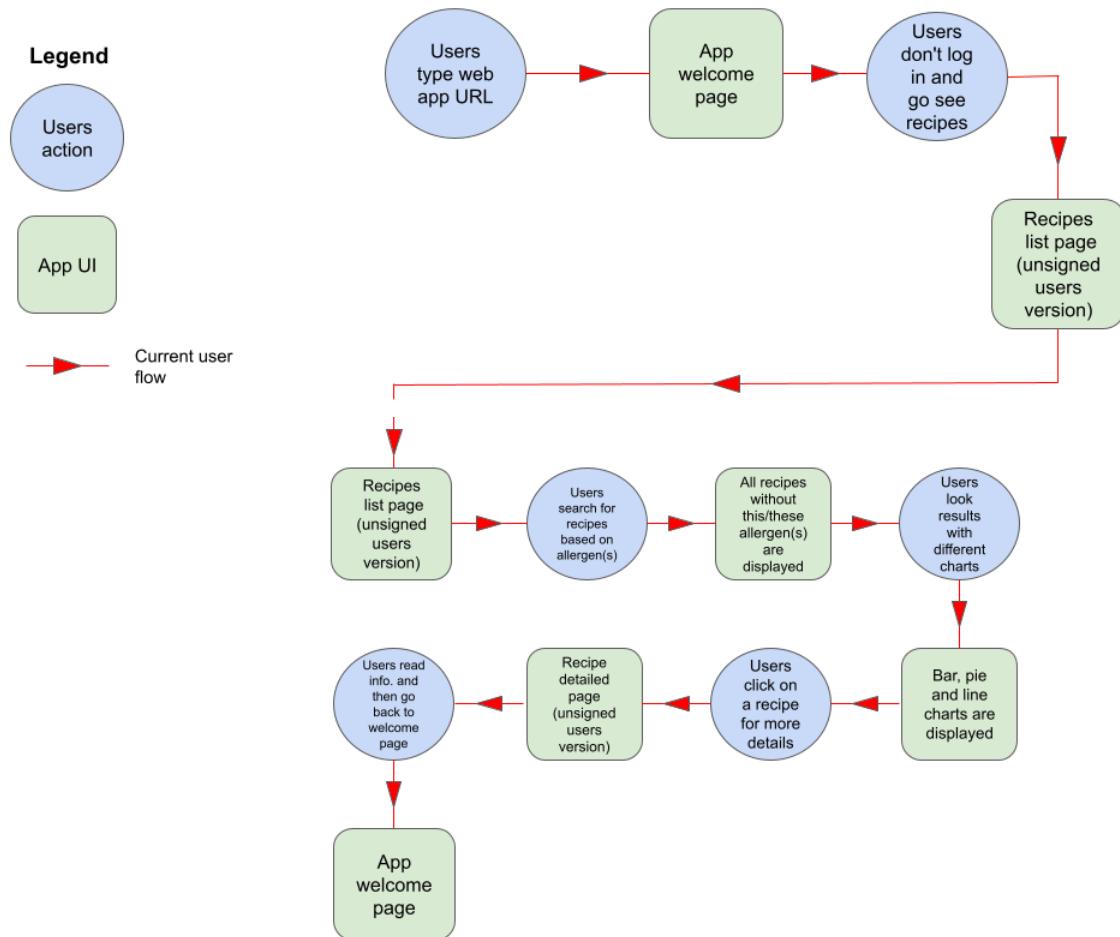
On the x axis: the cooking time (in category, such as less than 15 min, less than 30 min, etc...)

This allows to show how many recipes in total per cooking time category are available to eat for someone with specific food restriction(s) (allergen.s).

Execution flow

User flow 1 (no log in)

Users land on the homepage, don't log in, go see recipes list directly, search for a recipe based on allergen(s), see the charts, check details, and then go back to welcome page



Execution flow 1 - Screenshots



Welcome page

URL: <http://127.0.0.1:8000/home/>



Search by allergens

Enter allergen(s) to eliminate/remove recipes based on that criteria.

All recipes returned **will not** contain this/these allergens.

If you want to enter more than one allergen, separate each one with a comma.

Allergen(s): Chart type:

no data

Recipes list page unsigned users version (after users clicked on "recipes" / didn't log in on welcome page)

URL: <http://127.0.0.1:8000/recipes-list-unsigned-users/>



Search by allergens

Enter allergen(s) to eliminate/remove recipes based on that criteria.

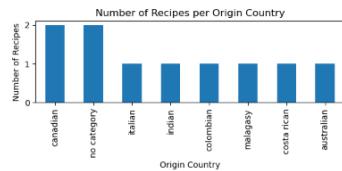
All recipes returned **will not** contains this/these allergens.

If you want to enter more than one allergen, separated each one with a comma.

Allergen(s): coriander

Chart type: Bar chart

id	recipe_name	origin	country	cooking_time	recipe_category	recipe_estimated_cost
04	Pizza italiana	(Difficulty: hard)	italian	45	dinner	14.0
16	Masala tea	(Difficulty: easy)	indian	5	cafe/tea	1.0
27	Bacon roulette	(Difficulty: medium)	canadian	5	dinner	15.0
38	Chocolate cake	(Difficulty: hard)	no category	35	dessert	5.0
49	Orange juice	(Difficulty: medium)	no category	5	juice	2.0
530	Pandea salsa	(Difficulty: hard)	colombian	60	dinner	10.0
631	Koba	(Difficulty: hard)	malagasy	45	dessert	5.0
732	Gallo pinto	(Difficulty: hard)	costa rican	120	dinner	10.0
833	Pumpkin soup	(Difficulty: hard)	australian	35	soup	7.0
935	Date chinoise	(Difficulty: hard)	canadian	60	lunch	11.0



Recipes list page unsigned users version (with a search for recipes based on an allergen) - Bar chart

URL: <http://127.0.0.1:8000/recipes-list-unsigned-users/>



Search by allergens

Enter allergen(s) to eliminate/remove recipes based on that criteria.

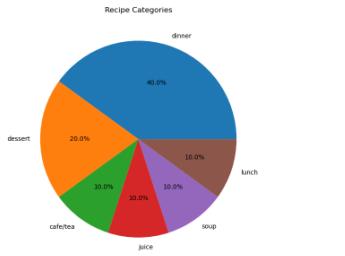
All recipes returned **will not** contains this/these allergens.

If you want to enter more than one allergen, separated each one with a comma.

Allergen(s): coriander

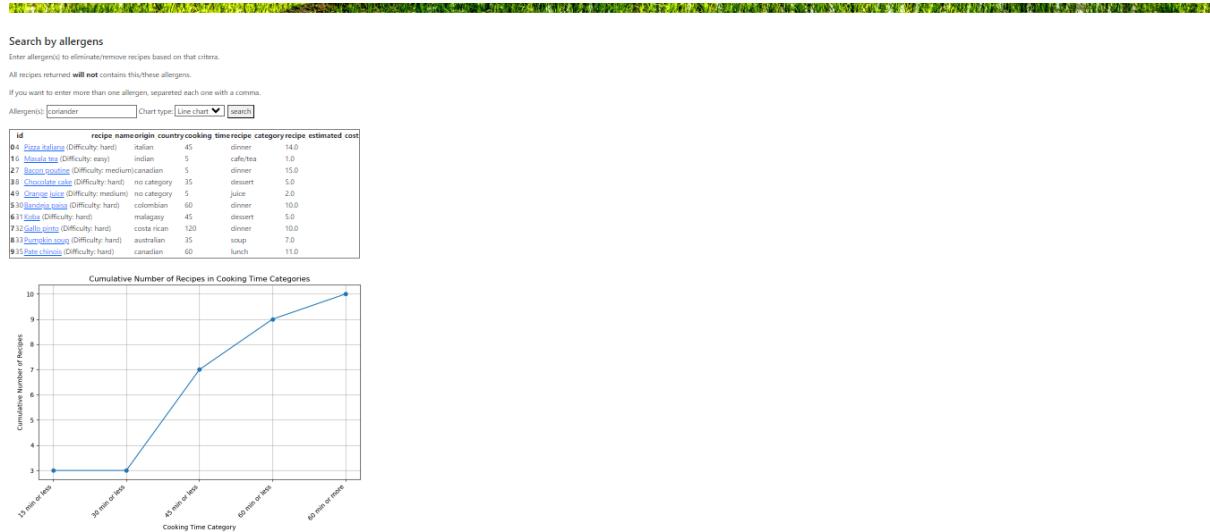
Chart type: Pie chart

id	recipe_name	origin	country	cooking_time	recipe_category	estimated_cost
04	Pizza italiana	(Difficulty: hard)	italian	45	dinner	14.0
16	Masala tea	(Difficulty: easy)	indian	5	cafe/tea	1.0
27	Bacon roulette	(Difficulty: medium)	canadian	5	dinner	15.0
38	Chocolate cake	(Difficulty: hard)	no category	35	dessert	5.0
49	Blueberry pie	(Difficulty: medium)	no category	20	pie	2.0
530	Pandea salsa	(Difficulty: hard)	colombian	60	dinner	10.0
631	Koba	(Difficulty: hard)	malagasy	45	dessert	5.0
732	Gallo pinto	(Difficulty: hard)	costa rican	120	dinner	10.0
833	Pumpkin soup	(Difficulty: hard)	australian	35	soup	7.0
935	Date chinoise	(Difficulty: hard)	canadian	60	lunch	11.0



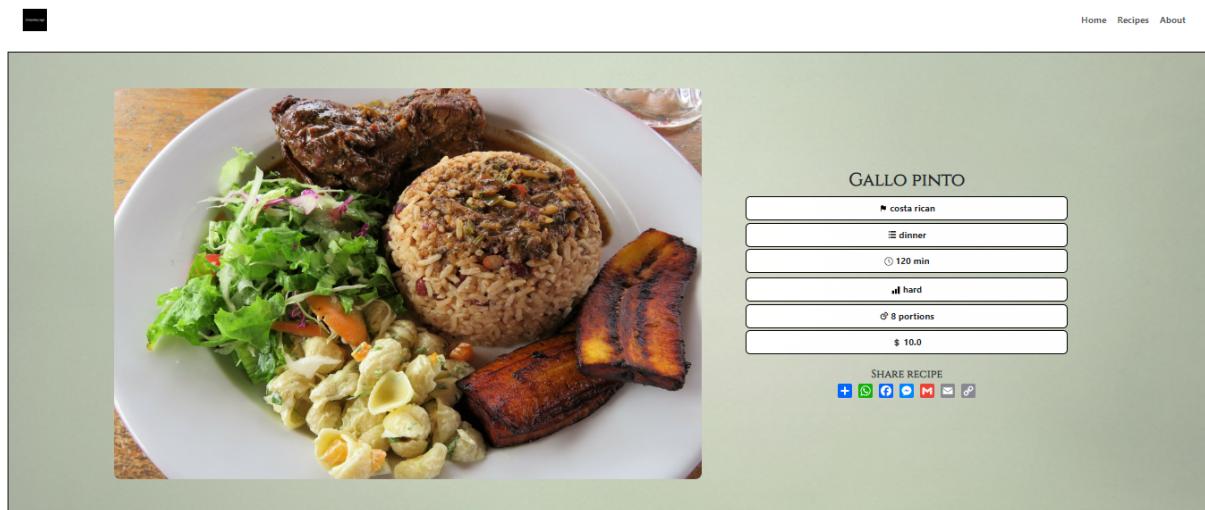
Recipes list page unsigned users version (with a search for recipes based on an allergen) - Pie chart

URL: <http://127.0.0.1:8000/recipes-list-unsigned-users/>



Recipes list page unsigned users version (with a search for recipes based on an allergen) - Line chart

URL: <http://127.0.0.1:8000/recipes-list-unsigned-users/>



Recipe detailed page unsigned users version (after users clicked on a recipe clickable name)

URL: <http://127.0.0.1:8000/recipes-detail-unsigned-users/32>

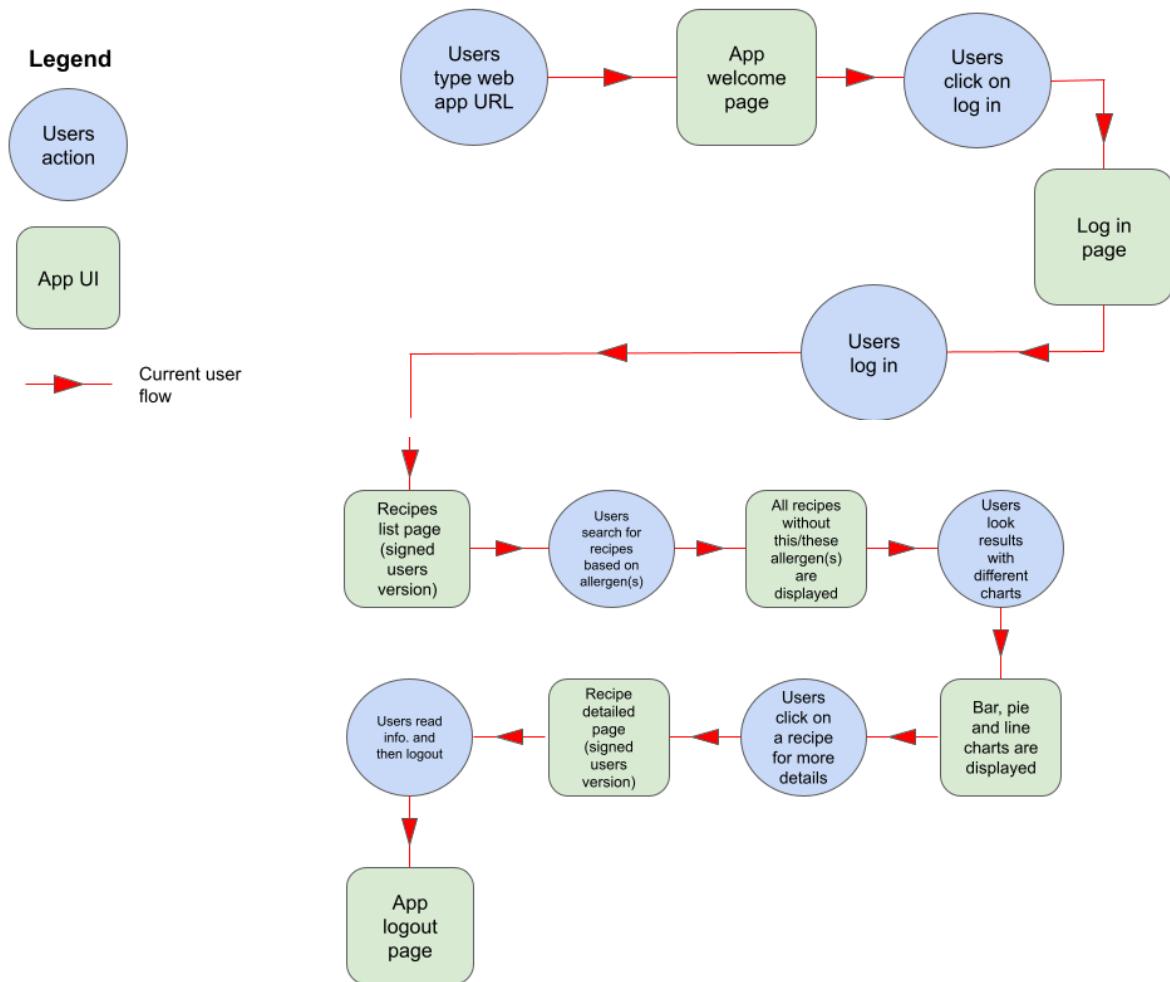


Welcome page (after users clicked on "home")

URL: <http://127.0.0.1:8000/home/>

User flow 2 (log in)

Users land on the homepage, log in, see recipes list, search for a recipe based on allergen(s), see the charts, check details, and then logout

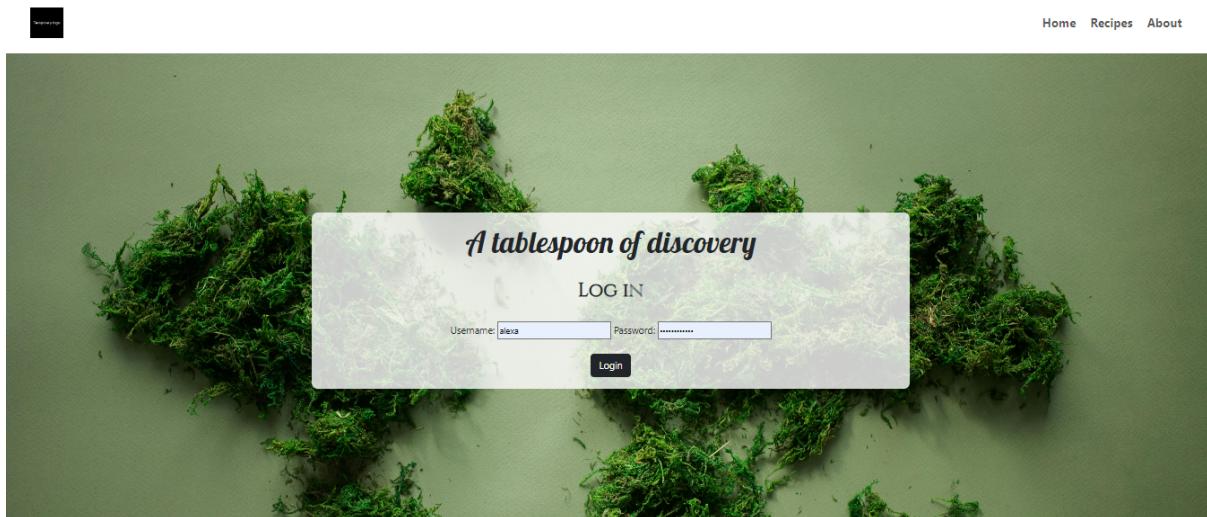


Execution flow 2 - Screenshots



Welcome page

URL: <http://127.0.0.1:8000/home/>



Log in page

URL: <http://127.0.0.1:8000/login/>



Search by allergens

Enter allergen(s) to eliminate/remove recipes based on that criteria.

All recipes returned **will not** contains this/these allergens.

If you want to enter more than one allergen, separated each one with a comma.

Allergen(s): Chart type:

no data

Recipes list page signed users version (after users logged in)

URL: <http://127.0.0.1:8000/recipes-list-signed-users/>



Search by allergens

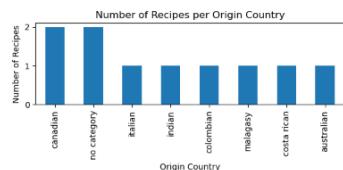
Enter allergen(s) to eliminate/remove recipes based on that criteria.

All recipes returned **will not** contains this/these allergens.

If you want to enter more than one allergen, separated each one with a comma.

Allergen(s): Chart type:

<u>id</u>	<u>recipe_name</u>	<u>origin_country</u>	<u>cooking_time</u>	<u>recipe_category</u>	<u>recipe_estimated_cost</u>
04	Pizza Italiana	(Difficulty: hard) Italian	45	dinner	14.0
16	Masala tea	(Difficulty: easy) Indian	5	cafe/tea	1.0
27	Bacon_outline	(Difficulty: medium) canadian	5	dinner	15.0
38	Chocolate_cake	(Difficulty: hard) no category	35	dessert	5.0
49	Orange_juice	(Difficulty: medium) no category	5	juice	2.0
530	Bandeja_paisa	(Difficulty: hard) colombian	60	dinner	10.0
631	Kooba	(Difficulty: hard) malagasy	45	dessert	5.0
732	Gallo_pinto	(Difficulty: hard) costa rican	120	dinner	10.0
833	Pumpkin_soup	(Difficulty: hard) australian	35	soup	7.0
935	Date_chinois	(Difficulty: hard) canadian	60	lunch	11.0



Recipes list page signed users version (with a search for recipes based on an allergen) - Bar chart

URL: <http://127.0.0.1:8000/recipes-list-signed-users/>



Search by allergens

Enter allergen(s) to eliminate/remove recipes based on that criteria.

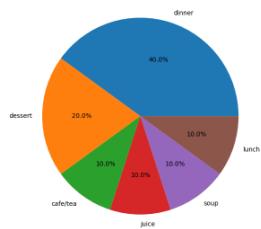
All recipes returned **will not** contain this/these allergens.

If you want to enter more than one allergen, separated each one with a comma.

Allergens: (or enter) Chart type: [search]

ID	Recipe Name	Origin	Country	Cooking Time	Recipe Category	Estimated Cost
0.4	Pasta Italiano	(Difficulty: hard)	italian	45	dinner	14.0
1.6	Maultaschen	(Difficulty: easy)	italian	5	cafe/tea	1.0
2.7	Bacon roulette	(Difficulty: medium)	canadian	5	dinner	15.0
3.8	Chocolate cake	(Difficulty: hard)	no category	35	dessert	5.0
4.9	Chargrilled beef	(Difficulty: medium)	no category	5	juice	2.0
5.10	Homemade pizza	(Difficulty: hard)	no category	60	dinner	10.0
6.11	Kofte	(Difficulty: hard)	mongolian	45	dessert	5.0
7.12	Gelato	(Difficulty: hard)	costa rican	120	dinner	10.0
8.13	Pumpkin soup	(Difficulty: hard)	australian	35	soup	7.0
9.14	Pasta chips	(Difficulty: hard)	canadian	60	lunch	11.0

Recipe Categories



Recipes list page signed users version (with a search for recipes based on an allergen) - Pie chart

URL: <http://127.0.0.1:8000/recipes-list-signed-users/>



Search by allergens

Enter allergen(s) to eliminate/remove recipes based on that criteria.

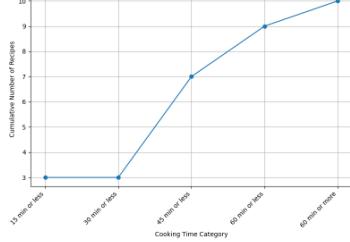
All recipes returned **will not** contain this/these allergens.

If you want to enter more than one allergen, separated each one with a comma.

Allergens: (or enter) Chart type: [search]

ID	Recipe Name	Origin	Country	Cooking Time	Recipe Category	Estimated Cost
0.4	Pasta Italiano	(Difficulty: hard)	italian	45	dinner	14.0
1.6	Maultaschen	(Difficulty: easy)	italian	5	cafe/tea	1.0
2.7	Bacon roulette	(Difficulty: medium)	canadian	5	dinner	15.0
3.8	Chocolate cake	(Difficulty: hard)	no category	35	dessert	5.0
4.9	Chargrilled beef	(Difficulty: medium)	no category	5	juice	2.0
5.10	Homemade pizza	(Difficulty: hard)	no category	60	dinner	10.0
6.11	Kofte	(Difficulty: hard)	mongolian	45	dessert	5.0
7.12	Gelato	(Difficulty: hard)	costa rican	120	dinner	10.0
8.13	Pumpkin soup	(Difficulty: hard)	australian	35	soup	7.0
9.14	Pasta chips	(Difficulty: hard)	canadian	60	lunch	11.0

Cumulative Number of Recipes in Cooking Time Categories



Recipes list page signed users version (with a search for recipes based on an allergen) - Line chart

URL: <http://127.0.0.1:8000/recipes-list-signed-users/>



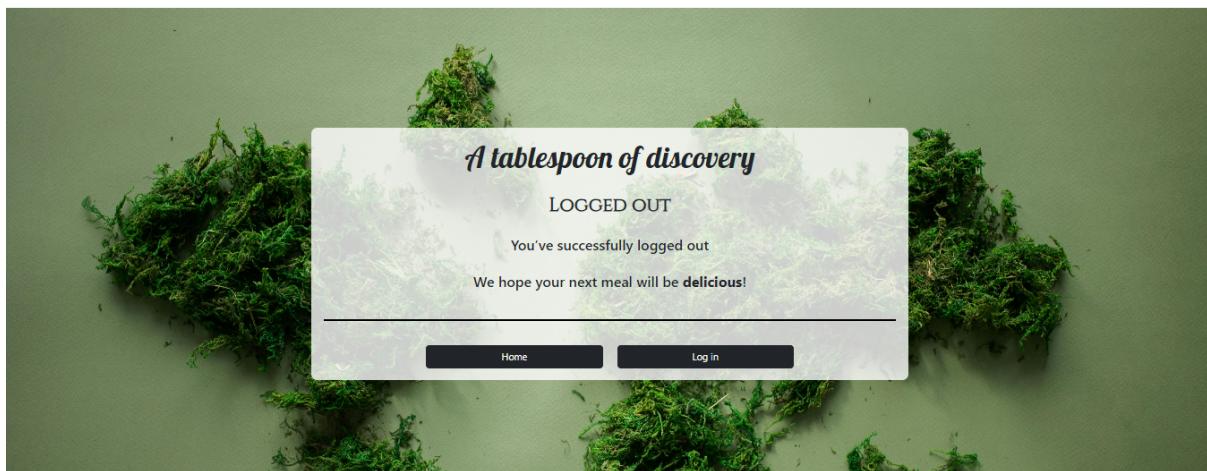
GALLO PINTO

costa rican
dinner
120 min
hard
8 portions
\$ 10.0

SHARE RECIPE

+ 

Recipe detailed page signed users version (after users clicked on a recipe clickable name)
URL: <http://127.0.0.1:8000/recipes-detail-signed-users/32>



A tablespoon of discovery

LOGGED OUT

You've successfully logged out

We hope your next meal will be **delicious!**

[Home](#) [Log in](#)

Logout page (after users clicked on "logout")
URL: <http://127.0.0.1:8000/logout/>