

# Diet Optimizer Tests

For each test, describe it and put the result (**SUCCESS**/**FAILED**)

## Part 1

### No-Regression Tests:

- Login Page
  - **Does 'Forgot your password' work?:** Yes, it redirects you to the proper page which asks you for your email (**SUCCESS**)
  - **Does 'New user' work?:** Yes, it redirects you to the "Creating an account" page (**SUCCESS**)
- Creating an account
  - **Leaving username blank:** "Fill out this field" (**SUCCESS**)
  - **Leaving email blank:** "Fill out this field" (**SUCCESS**)
  - **Leaving password/confirm password blank:** "Fill out this field" (**SUCCESS**)
  - **Entering passwords that don't match:** Passwords must match" (**SUCCESS**)
  - **Creating a username that already exists:** "A user with that username already exists." (**SUCCESS**)
  - **Entering an email that already exists:** "A user with that email already exists." (**SUCCESS**)
  - **Entering an invalid email:** "Please enter a valid email address" (**SUCCESS**)
  - **Entering a password that is too short:** "Password must be 6 characters or more" (**SUCCESS**)
- Personal Details
  - **Leaving any of the components blank:** "Fill out this field" (**SUCCESS**)
  - **Typing birthday in the wrong format:** "Enter a valid date. Required format : MM-DD-YYYY" (**SUCCESS**)
  - **When cm or in is selected, the appropriate weight unit (kg or lbs) is selected:** Yes, when cm is selected, kg is automatically selected. Same for in and lbs. (**SUCCESS**)
  - **When kg or lbs is selected, the appropriate height unit (cm or in) is selected:** Yes (**SUCCESS**)
  - **For 'Intolerances', when you choose 'None', can you select any other options?:** No (**SUCCESS**)
- Profile Page
  - **Do all the side tab buttons (About, Personal Info, Get a recipe, History, Settings, Most Popular Recipes) work?:** Yes, they take you to appropriate pages (**SUCCESS**)
  - **All the variables (name, birth date, etc.) are output correctly:** Yes. (**SUCCESS**)
- Get a Recipe

- **Do all the buttons/options work?:** Yes, all the options can be selected **(SUCCESS)**
- **Do all the scrollers work (for changing kcal, protein ranges, etc.):** Yes, all of these can be adjusted **(SUCCESS)**
- **What happens when no cuisine is chosen:** “This field is required” **(SUCCESS)**
- **What happens when no “kinds of recipes” are chosen:** “This field is required” **(SUCCESS)**
- **What happens when no food group is chosen:** “This field is required” **(SUCCESS)**
- **Do the ‘All’ buttons work correctly?:** Yes **(SUCCESS)**
- **If in Personal Details/Settings, you say you are vegetarian, assuming you don’t pick meat food groups, what happens?:** You are successfully given only vegetarian options **(SUCCESS)**
- Diet Options:
  - **If in Settings, you say you’re pescetarian, which group foods elicit the pop-up message “The following categories are incompatible...”:** all the meat categories (lamb, pork, poultry, beef, sausages) **(SUCCESS)**
  - **If in Settings, you say you’re lacto vegetarian, which group foods elicit the pop-up message “The following categories are incompatible...”:** all the meat categories, finfish/shellfish, dairy/eggs, and “cereal grains and pasta” **(SUCCESS)**
  - **If in Settings, you say you’re ovo vegetarian, which group foods elicit the pop-up message “The following categories are incompatible...”:** all the meat categories, finfish/shellfish, dairy/eggs **(SUCCESS)**
  - **If in Settings, you say you’re vegan, which group foods elicit the pop-up message “The following categories are incompatible...”:** all the meat categories, finfish/shellfish, dairy/eggs, and “cereal grains and pasta” **(SUCCESS)**
  - **If in Settings, you say you’re paleo, which group foods elicit the pop-up message “The following categories are incompatible...”:** Cereal Grains and Pasta, Sweets, Dairy and Egg Products, Legumes and Legume Products, Fast Foods, Breakfast Cereals, Nut and Seed Products **(SUCCESS)**
  - **If in Settings, you say you’re primal, which group foods elicit the pop-up message “The following categories are incompatible...”:** Restaurant Foods, Breakfast Cereals, Cereal Grains and Pasta, Nut and Seed Products, Sweets, Fast Foods **(SUCCESS)**
  - **If in Settings, you say you’re vegetarian, which group foods elicit the pop-up message “The following categories are incompatible...”:** All the meat categories and finfish/shellfish **(SUCCESS)**
- Intolerance Options:

- If in Settings you choose dairy and/or egg as an Intolerance, what group foods elicit the pop-up message “The following categories are incompatible...”: Dairy and Egg Products **(SUCCESS)**
    - If in Settings you choose gluten as an Intolerance, what group foods elicit the pop-up message “The following categories are incompatible...”: Cereal Grains and Pasta, Breakfast Cereals, Soups/Sauces/Gravies, Sweets, Baked Products **(SUCCESS)**
    - If in Settings you choose peanuts, tree nuts and/or sesame as an Intolerance, what group foods elicit the pop-up message “The following categories are incompatible...”: Nut and Seed Products **(SUCCESS)**
    - If in Settings you choose seafood and/or shellfish as an Intolerance, what group foods elicit the pop-up message “The following categories are incompatible...”: Finfish/Shellfish Products **(SUCCESS)**
    - If in Settings you choose soy as an Intolerance, what group foods elicit the pop-up message “The following categories are incompatible...”: Legumes and Legume Products **(SUCCESS)**
    - If in Settings you choose sulfite as an Intolerance, what group foods elicit the pop-up message “The following categories are incompatible...”: Baked Products and Soups/Sauces/Gravies **(SUCCESS)**
    - If in Settings you choose wheat as an Intolerance, what group foods elicit the pop-up message “The following categories are incompatible...”: Cereal Grains and Pasta, Breakfast Cereals, Baked Products, Sweets **(SUCCESS)**
- History
  - Does ‘History’ include all the ‘Food Items’ and ‘Recipes’: Yes **(SUCCESS)**
  - When you update your rating of your food/recipe and press ‘Submit’, is this new info submitted/updated?: Yes **(SUCCESS)**
  - What happens when like, dislike, no opinion are selected in “to be tried”: these recipes/foods are no longer displayed in the “to be tried” tab; they can be found in the “already tried” tab **(SUCCESS)**
  - Can you successfully change your rating of a recipe/food in “already tried” (aka, go from like to dislike)?: Yes **(SUCCESS)**
  - What happens when you select “didn’t try” in “already tried”?: this recipe/food is no longer displayed in “already tried”; it can be found in “to be tried” (this is useful if the user accidentally says they tried a recipe and would like to undo this) **(SUCCESS)**
  - Are the recipes/foods sorted appropriately?: Yes, they are sorted based on rank (like, no opinion, dislike), and within each rank, are sorted alphabetically **(SUCCESS)**
  -
- Settings

- Personal Settings
  - **Are you able to successfully put in new information and have it saved (on profile AND database)?:** Yes (this info saves on your profile and in the database) **(SUCCESS)**
  - **Does this page start with your original info?:** Yes **(SUCCESS)**
  - **Leaving any of the components blank:** “Fill out this field” **(SUCCESS)**
  - **Invalid birthday:** “Enter a valid date” **(SUCCESS)**
  - **Does your info get updated in the database?:** Yes **(SUCCESS)**
- Diet Dettings:
  - **Are each of the Favorites categories optional?** Yes. For example, I am able to pick favorite cuisines but I may not want to select favorite group foods **(SUCCESS)**
  - **For ‘Intolerances’, when you choose ‘None’, can you select any other options?:** No **(SUCCESS)**
  - **Does your info get updated in the database?:** Yes **(SUCCESS)**
- Account Settings:
  - **Does the password reset work properly?:** Yes **(SUCCESS)**
  - **Does the option regarding warnings/pop ups work properly?:** Yes **(SUCCESS)**
  - **Does your info get updated in the database?:** Yes **(SUCCESS)**

### Security and Stability Tests:

- **When you close a tab without logging out and press login, what happens:** you are prompted to login again **(SUCCESS)**
- **When you are logged out and you try to go to /profile, what happens?:** Ugly error (“UnboundLocalError at /diet\_optimizer\_website/profile”) --you should not go to the profile page, you should stay on the index page **(SUCCESS)**
- **When you are logged out and you try to go to /history, what happens?:** this works, you are redirected to login **(SUCCESS)**
- **When you are logged out and you try to go to /personal\_settings, what happens?:** Ugly error (“UnboundLocalError at /diet\_optimizer\_website/profile”) --you should not go to the profile page, you should stay on the index page **(SUCCESS)**
- **When you are logged out and you try to go to /get\_recipe, what happens?:** this works, you are redirected to login **(SUCCESS)**
- **When you are logged out and you try to go to /account\_settings, what happens?:** this works, you are redirected to login **(SUCCESS)**
- **When you are logged out and you try to go to /results, what happens?:** Ugly error (“UnboundLocalError at /diet\_optimizer\_website/profile”) --you should not go to the profile page, you should stay on the index page **(SUCCESS)**

- **When you are logged out and you try to go to /logout, what happens?:** Ugly error (“KeyError at /diet\_optimizer\_website/logout”) -- you should stay on the index page **(SUCCESS)**
- **When you are logged in and you go to /signup, what happens?:** you remain on your profile page **(SUCCESS)**
- **When you are logged in and you go to /personal\_details, what happens?:** you remain on your profile page **(SUCCESS)**
- **When you are logged in and you go to /index, what happens?:** you are redirected to the index page (good), but if you select ‘sign up’, you are redirected back to profile page **(SUCCESS)**
- **When you are logged in and you go to /login, what happens?:** you remain on your profile page **(SUCCESS)**
- **When you are logged in and you go to /about, what happens?:** you are redirected to the ‘About’ page **(SUCCESS)**
- **For each possible error on the “Creating an Account” page, is another user still added to the database?:** No **(SUCCESS)**
- **For each possible error on the “Personal Details” page, is another user still added to the database?:** No **(SUCCESS)**
- **For each possible error on the “Personal Settings” page, is the user’s information still changed in the database?:** No **(SUCCESS)**
- **When you are logged out and you try to go to /about\_logged\_in, what happens?:** you are redirected to the login page **(SUCCESS)**
- **When you are logged in/out and try to go to /home, what happens?:** you are redirected to the index page **(SUCCESS)**

### Visual/Interface Tests:

- Get a Recipe
  - **When you zoom in, do the options remain neat/in line with each other?:** No, the options have a more scattered appearance. **(FAILED)**
  - **When you reduce the window size (make it not full screen), do the options remain neat/in line with each other?:** No, the options have a more scattered appearance. **(FAILED)**

## Part 2

### Improvements Tests:

- Login Page
  - **When you forgot your password and enter your email, do you receive an email?:** No **(FAILED)**

## Improvement Ideas:

### Done:

- **Get a Recipe**
  - link Get Recipe with Personal Settings and User Profile (Diet Settings), where the user just fills a form once and then, the get\_recipes form will be pre-filled. For example, if you put in the User Profile form that you are vegetarian, you can't click on any of the meat food groups in Get Recipe (you see a popup). The work will be done only based on the group\_name (Note: dairy beverages example); it can't guarantee that the recipes that it finds are all vegetarian recipes (for more on that, read the second priority improvements) (done)
- **Settings:** create a new page with 3 "tabs" : Personal Settings (first and last name, gender, height, weight, age), User Profile/Diet Settings (intolerances, cuisine, kind of food, dish...), Account Settings (change password) (done)
- **History:** Change 'Raw Food' to 'Food Items' for clarity (done)
- **Famous recipes:** create a new page that will show you the most famous recipes (done)
- **Revisit the code to redirect you when you put /home** (done)
- **Modification of the "About" page/easy access to it when logged in:** this would more clearly detail what the objective of the website is, the source of the recipes (done)
- **In the sign up page, add a requirement that no two accounts can have the same email:** Otherwise, if two accounts have the same email, they have the ability to change the password to both accounts (done)
- **Fix 'New user':** Right now, this doesn't redirect you to the "Creating an account" page, which it should do (done)
- **Personal details, diet settings (or user profile):** when you choose 'None', can you select any other options (done)
- **Explanation on get recipe page and diet setting page:** add a message on Get Recipe that the user can visit diet settings page to select their go-to/favorite recipe options (done)
- **Modification of the 'History' page to differentiate between tried and to-be-tried recipes:** this will be especially helpful for users who are planning recipes for multiple days (done)
- **Be able to turn off warnings (like the popups in Get Recipe):** this should be done in the Account Settings (done)
  - Add a warning in popup so user knows where to disable the popup setting (done)
- **Add time maximum in Get Recipe** (done)
- **Add time in user profile preferences** (done)
- **Modification of 'History' page to list recipes in a certain order:** Liked recipes on top of the page (then no opinion, and dislike for example): sort previously chosen recipes by like and by alphabet (done)

- **The user should be able to request recipes for multiple days:** this option will be in 'Results'. Recipes for multiple days will be saved by pressing "Save Recipes" in Results and accessed on a separate page (see next bullet) (done)
- **A keeping research (Saved Recipes) page:** a new page where you can keep your research. And we can keep recipes for several days. The user should be able to delete a set of recipes (done)
- **Add a downloading image in the pop up** (done)
- **Be able to insist on a particular previously chosen recipe( "include"):** in get recipe for example, we can also select a recipe that you already liked, and the result of the research should take this recipe into count (in the nutrients total) (done)
- **If the user dislikes a recipe, it will be excluded from future recipes ("exclude")** (done)

#### First Priority:

- **History/Saved Recipes:** add a show more button
- **Change where you are redirected to when Save Recipes button is clicked:** Maybe we should instead stay on the Results page and reload the same info, rather than go back to Get Recipe. This would be convenient for the user, who may wish to regenerate recipes with the same constraints
- **If in Get Recipe, the user selects the 'All' button, but then they deselect an option, the 'All' button should be deselected too**

#### Second Priority:

- GENERAL
  - **Optimize the algorithm that finds the recipes:** (make more efficient) right now, the process takes a long time
- Sign Up
  - **If user forgets password, send an email:** as of now, the website doesn't send an email (we don't have the appropriate server)... instead a "fake" email is stored in the form of a file which can be seen in the website folder
- Get a recipe
  - **Food items not always clear:** (ex: Turkey, dark meat from whole, meat and skin, cooked, roasted), (another ex: DENNY S, mozzarella cheese sticks)
    - **Suggestion:** Consider clarifying the difference on the main profile
  - **American Indian/Alaska Native Foods included in "group foods", not "cuisines":** maybe consider switching
  - **Beverage, soup, breakfast, main dish are repeated in "what types of dishes" and "food groups":** maybe consider only including these options in the "types of dishes" category
  - **Be sure that if you are vegan, it'll show only vegan recipes:** this might be much more difficult, you have to know how to class a recipe as a vegan or non-vegan recipe → machine learning

- **In ‘Group Foods’, separate “dairy and egg products” into “dairy products” and “egg products”:** because some people only eat one or the other
  - **Add more recipes:** Too often, the website doesn’t find any recipes for a search. It would be nice to add more recipes. We’ve already had some scrapped recipes from other websites, it would be nice to integrate these recipes to our website.
- Personal Settings/Details
  - **Suggestion:** Consider adding a feature where if one chooses a certain diet, the corresponding intolerances are suggested or noted in memory
- User profile
  - **Suggestion:** Create an input goal which, depending on the objective (weight gain or weight loss) will automatically select the objective and if you have to maximize or minimize it.