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**SUBMISSION 2 - BETA PROTOTYPE**

## CONCEPT

The previous assignment focused on health and nutrition. For the second assignment, the sustainability theme is added to the website, so users can make sure they take care of their own health and that of the planet. The website now allows users to understand how their food consumption impacts the environment by obtaining data on greenhouse gas emission (GGE) statistics for several ingredients. Moreover, the users can now filter the recipes based on the ingredients present in the climate change food calculator as well as by nutritional value.

The topic of the website resulted from an amalgamation between the themes of food/recipes and environmental sustainability. The name FOODPRINT results from the combination of "food" and "carbon footprint".

## DESIGN & METHODOLOGY

The leaf was added to the logo to associate the website with a unique and simple image representing the concept. The colour palette changes slightly for this submission, but we keep the colour green for the logo as it is associated with healthy-eating and the environment (Singh, 2006; Schuldt, 2013).

## HOMEPAGE

The homepage was changed from submission 1. In the present submission, the homepage is more explanatory and gives the user a better of what the website is about. The background food picture and short text give a brief explanation of the overall theme.

## SUSTAINABILITY

With climate change currently being a major issue in the world (Greenpeace UK, 2019; Sustain.org, 2019), we noticed that there is to our knowledge no famous website dedicated to both healthy- and sustainable-eating (except online new articles).

To address this issue, we were inspired by the food calculator presented on the BBC website (Stylianou, Guibourg, and Briggs, 2018). The data from the calculator (which are based on reports by the United Nations) were used in the fatfree framework. The data was gathered into an excel sheet and an Excel Sheet parser was created in Python to insert the values in the database (script available at html → fatfree → foodprint → DWD Supporting Files for Beta). The two dropdowns (ingredient selection and consumption frequency) provide information about GGE contribution.

## RECIPES

Based on the information the user has regarding their diet's carbon footprint, they can then select the type of recipes they are interested in. The recipes (provided by API data) are filtered by the user, who selects the main ingredients in the dish. The user can also select the type of cuisine desired.

Moreover, the user also has the option to select recipes based on nutritional value. The user can indicate specific amounts of certain nutrients (in grams) with the sliders, such as Vitamin B12, Protein, or Iron. This allows users with specific daily nutritional-intake needs to have personalised options. The slider allows the user to choose nutrients which is less than or equal to the values entered in the slider.

## MORE

The feedback form allows users to leave a comment, which can then be used by developers to analyse and improve the content of the website. The users can also sign up to create an account, in which they can log in whenever they visit the website.

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Separate tasks were attributed to the group members, but everyone gave as much input as they could on each aspect of the website development, and each gave some contribution to the others' tasks. Zoe and Lisa created the feedback form. Lisa oversaw the overall design and feel of the website including colour scheme and layout. Zoe oversaw the development of the carbon footprint calculator (fatfree), designed the logo for the website, and contributed to the overall look of the website. Ayush was in charge of researching about the APIs for the recipes and classifying them by ingredient and nutritional value, creating the javascript for parsing the data

and presenting them in the form of cards and also created the login and signup page.

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## CHALLENGES/SUGGESTIONS

Team members worked individually on separate tasks and this it was difficult to put together the different bits of code developed by the different group members. This included CSS integration and backend integration to the main code on server.

The website may be improved by changing the appearance of the recipe procedures, by making them more reader-friendly. We have introduced the login and signup pages as a demonstration of the mechanism to have login/signup facility in the website for future validation.

Presently, the login page allows input from the user but does not perform a validation and redirects the user to the home page. The signup page accepts the user input and feeds them to the users table in our database. However, we could perform validation (e.g. repeated usernames not allowed), and since we accept the email from the user, we can send an email for e-verification. The login/signup could also allow users to personalize their experience by marking some recipes as favourites. Finally, we could provide users who select a recipe with a more sustainable alternative.

LINK TO SCREENCAST:
https://media.ed.ac.uk/media/Beta+Prototype+FOODPRINT/1_7s1tenk5

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