

## Website introduction:

Using tried and tested recipes from the locally famed restaurant Go Dutch Pancakes House. The website will allow users to view and download easy to follow instructions that will enable them to create and enjoy dishes that would have only been previously available from within the premises of the restaurant itself. Along with granting readers the ability to make these dishes on the go, the website also aims to document some of the history behind the food that has existed for centuries.

## Research

Research on websites that are based on a similar topic to the website being created is listed below:

On the website Allrecipes ([Allrecipes, n.d.](#)), a minimalist approach is taken when presenting the information and options available to the user. Resulting in a smoother experience for the user which in turn improves their satisfaction with the website. The same approach will also be taken for creating our website as a smooth experience for the user is priority.

On the website simplyrecipes ([Simply Recipes, 2019](#)), recipes are shown along with pictures of them. Doing so makes recipes more enticing for the user to try as from the name alone they may not have had much idea of what that meal will be like, with a photo they can gauge some idea as to what kind of meal it will be. The same approach will be used for our website as the images provide more information on what the recipe will create than what the user may be otherwise able to discern from the name alone.

On the website yummlly ([Yummlly.com, 2019](#)), users have the option to leave reviews on recipes, doing so informs other users of the popularity of each dish which in turn informs them on the likelihood that they too would enjoy that meal. This is a feature that is planned to be added towards the end of the development, it isn't crucial for the functionality of the website and as such won't be added till the core parts of the website are complete.

On the website kingarthurbaking ([www.kingarthurbaking.com, n.d.](#)), the information for how to cook the recipe is displayed in a neat and clear manner alongside the ingredients for the recipe. A similar approach for displaying the recipes when the user wants to cook them will be taken as it creates a more enjoyable user experience as they can quickly and accurately follow the instructions as intended.

## Research on text to speech

As the website intends to use a text to speech feature, an API will be used to assist in the functionality of this. Speechify ([speechify, 2023](#)) will be used for this purpose, more research is needed to implement the best solution for this task, but this feature is planned to be added as a priority for the website.

## Features:

Granting the user the ability to download recipes for use at later dates is designed to be implemented as a convenience to the user. The more satisfied the user is with the website and the features available to them, the more likely it is that they will revisit to try out different recipes at a later date.

The way recipes are presented will follow a modular approach.

Many recipes may share the same instructions for how to cook certain items within the recipe, to save time and resources, instead of rewriting the same instructions out the text will instead be linked, meaning one change to the original instructions would affect what is shown in multiple recipes.

A further feature of this is that it would allow the user to view multiple recipe that contained a particular item, say they desired to eat something with ice cream, then they would be able to view all recipes that included ice cream as an ingredient

As the website is not solely based on how to cook various pancake meals, it will also feature a section detailed to the history of the food, this section may also include an audible conversation of the text to allow users to listen to the information.

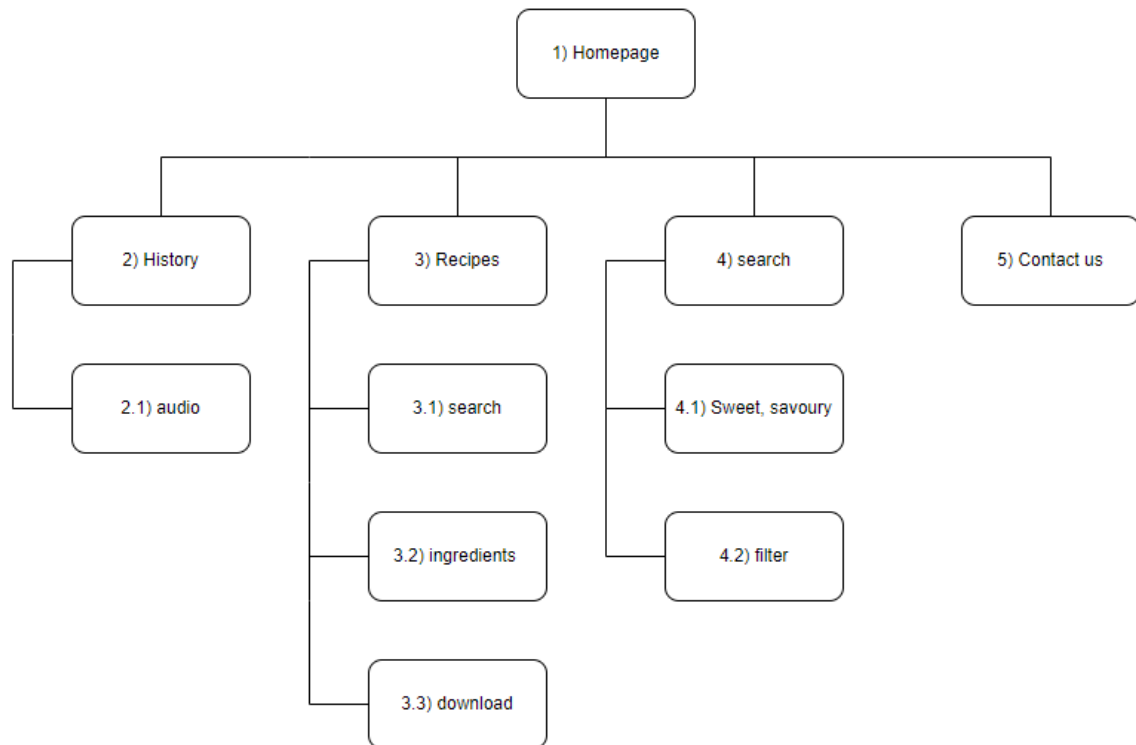
To ensure user friendliness, Images of what the meal can be expected to look like when finished will be displayed along with the name of the recipe, potentially enticing users to choose to cook that meal and also improving the ease for which a user can find what they want to cook.

Easy navigation to choose between savoury and sweet pancakes

Different kinds of pancakes will be broken into different sections, i.e, savoury and sweet. This will be implemented with the idea of allowing more recipes and categories to be added in the future. Future proofing the design so that it doesn't need to be regularly completely rewritten every time something needs adding.

The website will be coded in a way that it is easily transferable between different mediums for using it, i.e. mobile, laptop. Saving time in the process as only one version of the code will need to be created instead of a second one to allow it to be used on a different screen size.

Navigation/organisation



1) Usage of the site will start from the homepage of the website where they will have 4 main options

2) Navigate to the history page

Here they will find the information on the history of the food, an option will also be added to play all the text in audio.

3) Choose a recipe to open

There will be multiple recipes listed on the homepage, each one will be contained within a box with a picture of the food and its name, the user can then click on this box to move to the page containing the recipe.

3.1) Similar to the homepage, the user can search on this page to open and change to a different recipe

3.2) All the ingredients will be listed on the page with a link contained within them that takes the user to a page detailing all of the recipes that use that recipe

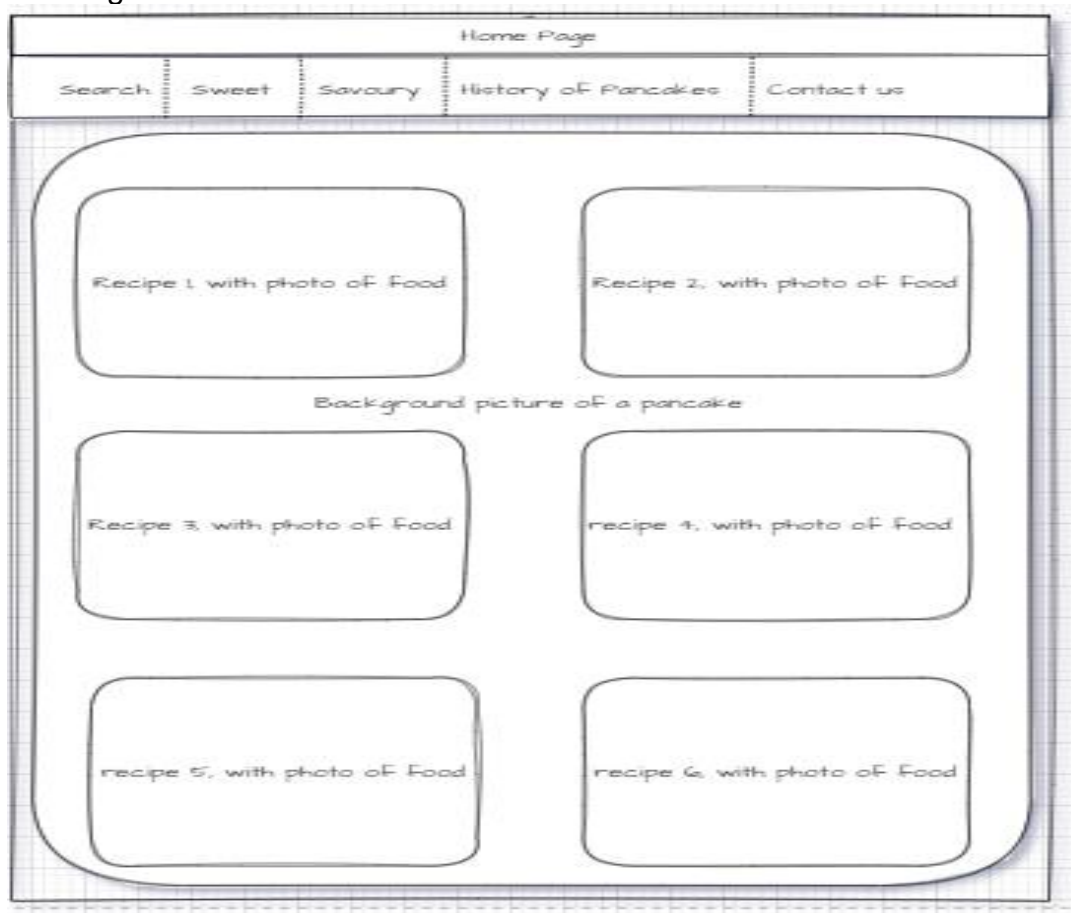
3.3) A button that will allow the user to download the recipe, the downloaded document will contain all the information regarding

4) On the homepage there will be a search option, this will work by filtering out the recipes on display to show only the ones that relate to the filter created through the search

4.1) As well as a button for searching an option to quickly switch between savoury and sweets pancakes on display will be available.  
search for a recipe

5) The fifth and final option is a Contact Us page, this will provide my details to allow the user to get in contact

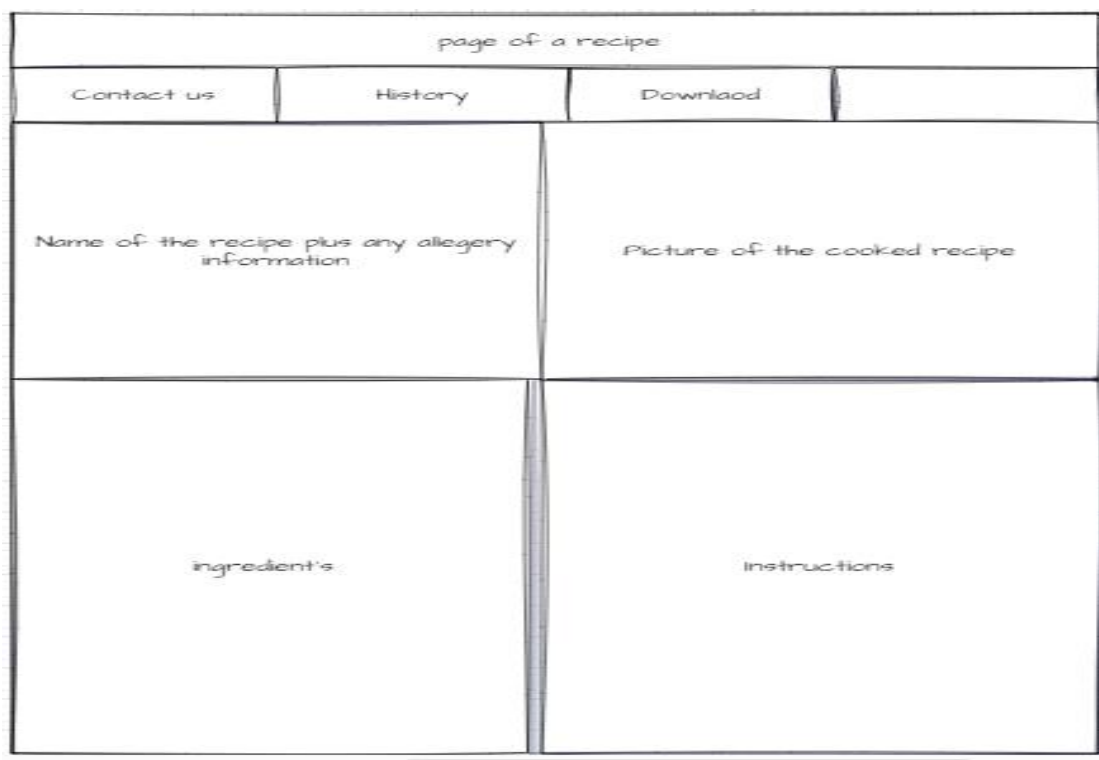
## UI designs



This is the initial UI design for the homepage, multiple recipes are displayed with pictures of them to allow the user to better understand what the recipe is, tabs at the top of the page will take the user to separate pages or filter the recipes that are being displayed. This design was chosen as the goal is to show the user only the information that they need at that point so that they don't get lost trying to navigate the page.



This is the UI for the page that the user will be taken to if they click on the history tab, here they will see the information regarding the history as well as a new button that is available which will play the text to audio feature. From here they can also open the contact us information and as well as clicking the recipes tab which take them back to the homepage where the recipes are displayed.



This is the UI that the user sees when they click on a recipe. It contains all the necessary information for making the food as well as a new button for downloading the recipe.

The overall design for these UI is to have as little information on each page as possible with clear links that lead the user to more information. It is done this way so that the user does not feel overwhelmed with lots of different options and features

and in turn is then more likely to navigate around the website and return to it in the future.

Implementation plan:

To begin with, all the necessary information for the recipes will be gathered and documented,

Following that the homepage and subsequent pages that are linked to it will be created and coded

Next the information to those pages will be added starting with the homepage

Once these are finished the text to audio will be added

After all this and if there is still time available, any additional content that can now be added will be added

Additional features:

The first feature that will be added to the website once the core functionality of it is perfected will be the text to audio system. After this has been implemented, an algorithm that orders what order the recipes are displayed in on the homepage will be added. This will work by using client side storage to store the user's most frequently visited recipe and then pushing that recipe to the top of the list for displaying.

The downside to this is once the user clears that data stored on their device all data relating to which recipes are there favourites will be lost. The current way of storing that data that will be used right now is indexedb but that is subject to change once more research is conducted and new methods are discovered.

Reference:

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