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Psiakowo Website

## Deployment

The link to the deployment of the website is: [**https://natank2039.github.io/Restaurant/**](https://natank2039.github.io/Restaurant/)

## Current state compared to Initial Plan

Currently the Webpage has four main pages. These are:

Main Page

The navigation bar along with the website name is at the top of the screen, and the background is a brick wall. This format applies to every webpage on this website.

On this page an image is shown on the left, some background information about the fabricated company is shown in the center, and on the right there is the specials menu. It is only designed as a entry point to the website, and from there the typical user will progress to the Menu page.

The design of this page is not too different from its original plan, the main difference being that there is less content due to time limitations. The major difference is the lack of a search bar. At the time of planning, I did not at all consider the implications of creating a search bar, and the creation of even beginning work on a small scale crawler was outside of my time limit and abilities. This difference applies to every page on this website.

Menu Page

The menu page fully replaced the reciples page. The recipe page was supposed to contain to further subpages representing the food categories, just like the menu page does now. Inside these subpages, some food in those categories is listed. In the recipe page, I planned to have the possibility of sorting through food by specific properties, such as cost, dietary requirements, etc. I believe this was a good idea, and that it would have been implementable, however this idea was abandoned due to time limitations. The next best thing, abandoned due to the same reason, was to create the functionality of adding food to a “cart” which would then add up the total cost and calories. In the end, the menu page became a simple restaurant menu without special functionality. For the purpose of the javascript demonstration, similar functionality was added to the review and where are we pages.

Where are we

The where are we page was only changed slightly. It replaced the restaurants page, however its layout and contents are almost identical, with the difference that instead of redirecting the user to a new page to gain information on specific restaurants, the user clicks buttons which change the text displayed. If the button is pressed again, then the text returns to its original state, a short description of the restaurant. This is done by reloading the page. This is not an ideal solution as it would rise many problems in a real world scenario, however after many hours and attempts it became the last resort due to the time limitations.

Review Page

The review page completely replaced the about us page. The initial plan was to just have some further general information about the restaurants on this page, however this would not give me many possibilities to implement more complicated functionality, and the simple act of putting text onto the page was already demonstrated in multiple other locations in the website. Instead, I decided to allow the user to write reviews for the restaurant. The initial plan for this was for the user to enter their answers in input fields, and then the review is saved to a file, preferably in JSON. After many hours however, I could not figure out how to save to a file using Javascript, and all online resources would only show how to do so as a script that was locally called on the machine, probably because the functionality is not easily carried out due to security concerns. Instead, I decided to simply save the review in local storage and add it to the review section, then ensure that the next time the page is accessed the review section is updated accordingly. The weakness of this is that reviews will not be consistent across devices.

Design

In general, the design that I planned in my initial report was followed, with some additions. I used a brickwall background as well as purple backgrounds for my text. The purple backgrounds served to make the text easier to see and also to make the space feel less empty, although in the end I decided that a different approach would have been better, for example making the text white and using brighter colours that fit better with the vintage stile of the background. There was not as much content in the webpages as I planned as I focused on getting the functionality first, but did not manage to fully finish it either, resulting in the lorem ipsum sections being left as just sample text.

## Additional Features

With more time, I would have liked to add much more functionality to the website. The search bar is something I would have worked on, as there must be resources of how to implement one without having to do everything from scratch. The main things however I know I could have achieved with some more time are:

Security – I would have liked to demonstrate some security programming in my website. Currently it is vulnerable to various attacks, especially cross site scripting, sql injection etc. Implementing even small-scale security measures would have been a good addition to the website. Another possibility would have been to give the user the possibility of logging in and then unlocking an extra page, however this would require finding a way to save and read files using Javascript which was something that I found problematic.

Functionality – The shopping cart for the menu – this could have been a valuable addition as it would make the website less like a simple online menu, and more like the modern, purchase option available websites that are currently used. I would also have liked to add the sorting system, where you can sort the products based on price, or other specific properties. The last thing I would focus is to create my original idea with saving the reviews to a file, which not only would have demonstrated the data exportation and formatting aspect, but it would also allow the reviews to be consistent from device to device. As of now the reviews are stored in local memory instead meaning that they are only stored on the device that created the review.

## Limitations – achievements

By far the main limitation that I encountered was the lack of time. Over the last weeks, not only did I have problems with another module (the teamworking module, for multiple weeks we are at least two members short at all times due to health conditions), but also health problems within my own family, with both my mother and Grandmother having to be taken to the A&E. this in addition to many other factors led to me having to develop the website on a last minute basis.

For the technical aspect, my main problem was my limited experience with Javascript. With HTML and CSS, I have had brief introductions and so it was easier to work with them, but Javascript was new which in particular was problematic when returning to a piece of code after some hours of working on other sections. I would often have to reread and trace back the code and on occasions that this failed to help me fully remember why I wrote the code exactly the way it was written, I had to rewrite the code again. This was severely time consuming, however it did let me get to knsow Javascript much better and gave me the opportunity to refine my first attempt at the code, removing unnecessary sections as well as finding shorter or more efficient methods of achieving the same outcome. The best example of this would be in the Where are we page, where I had code that was supposed to return the text and button back to its original stage after it was created. After multiple hours of working on code to do so, I ended up removing at least 60 lines of code and replaced them with a single two word inbuilt function to refresh the page. Although this is not a solution that would be acceptable in a real world scenario, it did allow me to achieve the planned functionality for the webpage.