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**Project Title:** Pizza/Food website

### **1. Project Overview:**

The purpose and objective of my web development project is a simple Pizza ordering website. The website requires the user to input their information such as their first and last name, gender (not required) and address and when the information is submitted, it is then displayed onto the next page, which is then stored in a SQL table.

The target audience will be the customer who wants to order pizza with toppings and a sauce (can only choose 1) of their choice. An animation of your info shows up above the submit button as it is entered was implemented.

### **2. Project Timeline:**

Phase 1, which was to create the main page with the form is an HTML file with no stylesheet, took 2 days max. Note that any elements may change in the final version. The 2<sup>nd</sup> part of Phase 1 is to create a CSS stylesheet, which should take 2 days to implement the basics (such as colors and a basic look for the website).

Phase 2 implements JavaScript interactivity with the mouse and keyboard, which implements the input information being displayed above the submit button. For this project, the onchange HTML event attribute was chosen, originally the comedown was used but it wasn't working correctly as expected so onchange was used instead. This takes around 2 to 3 days max.

Phase 3 is when Back-end development starts. For this part I had to create a .php file that imports the input information (such as the first and last names and the Pizza customizations) from the HTML file and prints it to the main screen. I had to use the echo(); statement multiple times to test that the program was working correctly. The outside of the <?php \*PHP code here\*> code was pretty much HTML, which meant that I could use a .js file to make it look better.

Phase 4 comes the part where the database and SQL table are created. I had to use MAMP to create an SQL table to store the inputted values in the server.

### **3. Project Architecture**

In the HOME PAGE, the user can click the button that says "Click to start your order" to take them to the main website with a form. In the main website there are several inputs that spawn a tooltip box should you hover over them that tell you to input your information. The information

and the chosen toppings are then saved and are submitted when the red “Submit your order” button is clicked.

There it takes you to a page that has the information you’ve inputted and chosen (gender, toppings and sauce for Pizza), which is also stored in a database table (obviously not seen). A button that says “Click to go back to the HOME PAGE” is present so that the user returns to the home page instead of having to click the browser’s back button.

#### 4. User Interface (UI) Design

The main colors for the UI are shades of red (such as pink or crimson) since those are colors that come to mind when thinking of a pizza. The table has rows colored in yellow/orange which can be thought to be the colors of a pizza crust while a green border is around the table (which you can think of colors for vegetables)

I chose to give the headings an UPPERCASE font for emphasis with the main heading (ORDER YOUR PIZZA!) being inside a rounded border to while the labels that have an input to them are in bold to make it stand out. To leave little empty spaces as possible, most of the elements are centered.

The HOME PAGE (not the main page) has 3 image links (Pizza Hut, Domino’s, and Papa John’s), the 3 images are each surrounded by a green border that has a gray background. When you hover the cursor by those 3 images, the image becomes slightly transparent.

#### 5. Database Design

For this project the database was named info, and a table named “customers” was created for it, since it will be storing customer information taken from the form. For simplicity purposes, all data variables are of type varchar and all have some sort of descriptive comments attached to them.

This is a sample of the table (minus the comments)

First Name	Last Name	Gender	Address	ZIP Code	Toppings #	Phone Number	Pizzabake	Sauce	Date	Time
Mario	Guerrero	Male	2900 Bedford Ave	11210	3	7189515000	Well done	Marinara	2023/08/16	04:20:18am

## **6. Functionality & Features**

For this website, a JS feature used is when information inputted on the form is displayed above the “Submit your order” button. This was useful because users may forget what they input (especially if they use autocomplete on the form) and they may have to check the form inputs one by one, and this little feature alleviates that.

To implement this, I had to make a JS function called display(), it originally used the onkeydown event attribute, but because it wasn't working correctly, I used a different event attribute and it ended up being onchange, and applied it to the <input> elements inside the form, meaning that the JS interaction will work every time a value of the form is changed.

## **7. Technology Stack**

For this project's front-end development, the following were used in order: HTML, CSS, and JavaScript. The versions used were the latest (HTML 5, CSS3 and ECMAScript 2023). For the back-end development, PHP and MySQL were used here. According to the phpMyAdmin's Web server, the version of PHP is 8.1.0, which according to [www.php.net](http://www.php.net), it isn't the latest version since PHP 8.2 has been released afterwards. The phpMyAdmin's Database server states that the MySQL server version used is 5.7.24 which was released back in 2018 and isn't the latest as version 8.1 was released this year.

## **8. Challenges & Mitigation**

In spite of the development of this project being a learning experience for me, it wasn't without its challenges. Finding a JS function to use for this project was hard as I couldn't think of one at the moment, I considered adding current time, but I assumed it was too obvious, so I eventually came up with the idea to have the website display information as the user types.

Another challenge was the usage of MySQL, as I found it too hard to use and was thinking of how to implement it in the project, eventually I found out I can use database and tables to store values from a php file and then left it at that.

## **9. References**

Include any relevant resources, research papers, or tutorials that have inspired or influenced your project's concept and development.

For this project I used as reference some forms and w3schools' “CSS Buttons” page as influences for his project development. Most of development and coding for this project was done on Visual Studio Code, the only exception is when developing databases and tables, which were created using myPhpAdmin.

