

CSC-30025 Web Development

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Words counts: 1520.

Introduction:

Welcome to my fast food website, Foodies! Our platform is designed on a strong architecture that smoothly integrates HTML, CSS, PHP, JavaScript, and a SQL database to provide a user experience that is both efficient and delectable.

HTML is at the heart of my website, serving as the structure and basis for each page. CSS comes in to stylize and beautify, resulting in a visually appealing interface that keeps visitors interested. Meanwhile, PHP handles server-side programming, allowing for dynamic content development and seamless interactions.

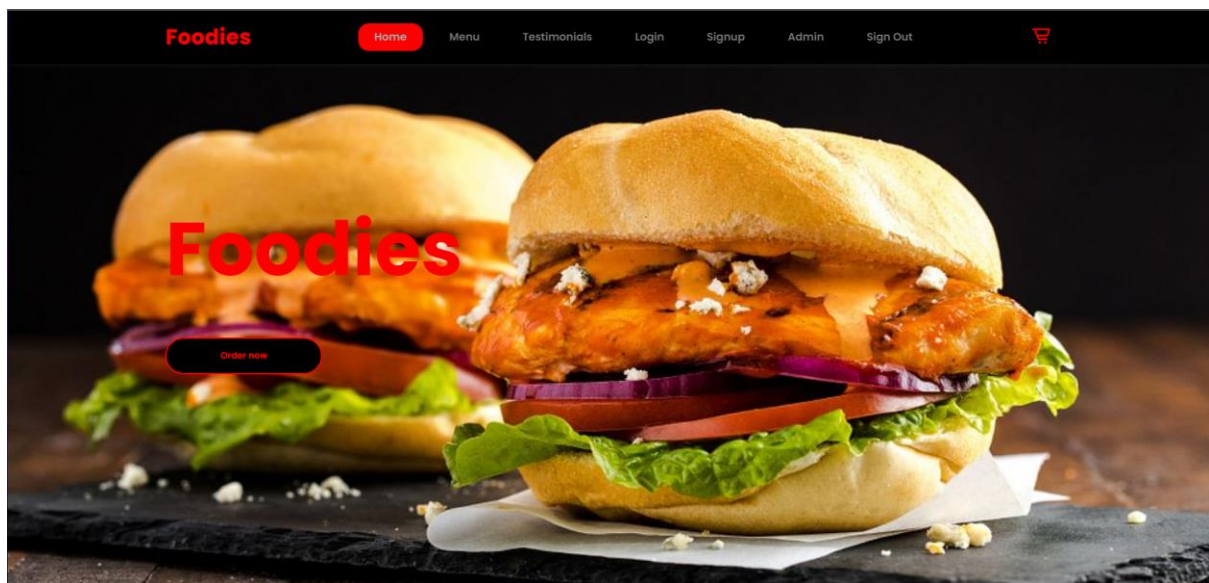
JavaScript adds interactivity to every click, increasing user engagement and allowing for dynamic updates without page reloads. Behind the scenes, SQL databases store and handle massive amounts of data, ranging from menu items to user preferences, ensuring easy access and retrieval.

In my mission to give the best fast food website experience possible, each component is carefully coordinated to provide lightning-quick navigation, appetizing imagery, and a tailored journey for each visitor. I hope to redefine the digital dining experience one tasty byte at a time by seamlessly integrating technologies.

Developed Architecture, Implementation Details and System Inputs and Outputs:

The homepage has a top navigation bar with links to several areas, including Home, Menu, Testimonials, Login, Signup, and Admin. Users can simply access these areas by clicking on the relevant links. The navigation bar also has a cart button on the right side, which allows users to access their shopping cart instantly.

Home section: This part greets users with an eye-catching background image and the brand name "Foodies" clearly displayed. The "Order now" option encourages people to explore the website further.




Food Menu Section: Located below the home section, this section displays the many food items available on the menu. Users can see different meal categories and choose from a variety of selections.


What will **you** eat today?

Lorem ipsum dolor sit amet consectetur adipisicing elit. Cumque alias aliquam eveniet, iure praesentium dicta ex dolorum inventore itaque minus repudiandae, odio provident? Velit architecto natus expedita non? Odio, dolorum.


All food




Chicken Burger
£7.5




Beef Burger
£7.5




Fish Burger
£5




Chicken Sandwich
£7



Falafel
£7.5

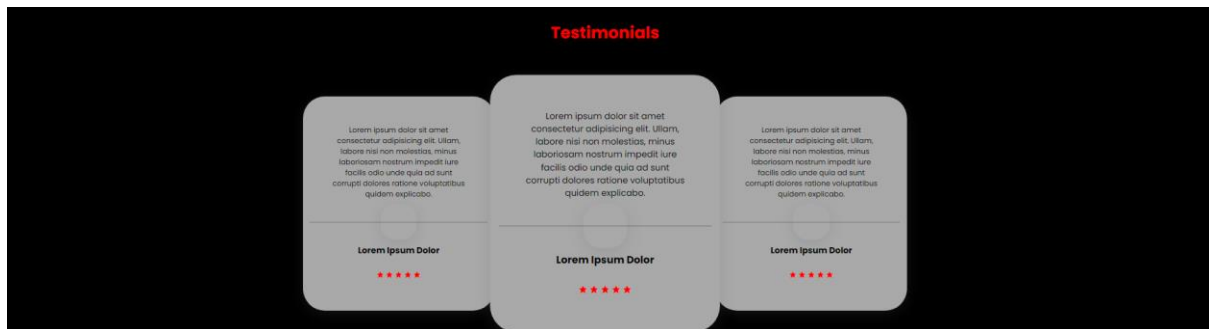


BBQ Sandwich
£6



Fish Sandwich
£7

Testimonial Section: Further down the page, consumers can see testimonials from satisfied customers, which lend credibility to the company and influence purchasing decisions.

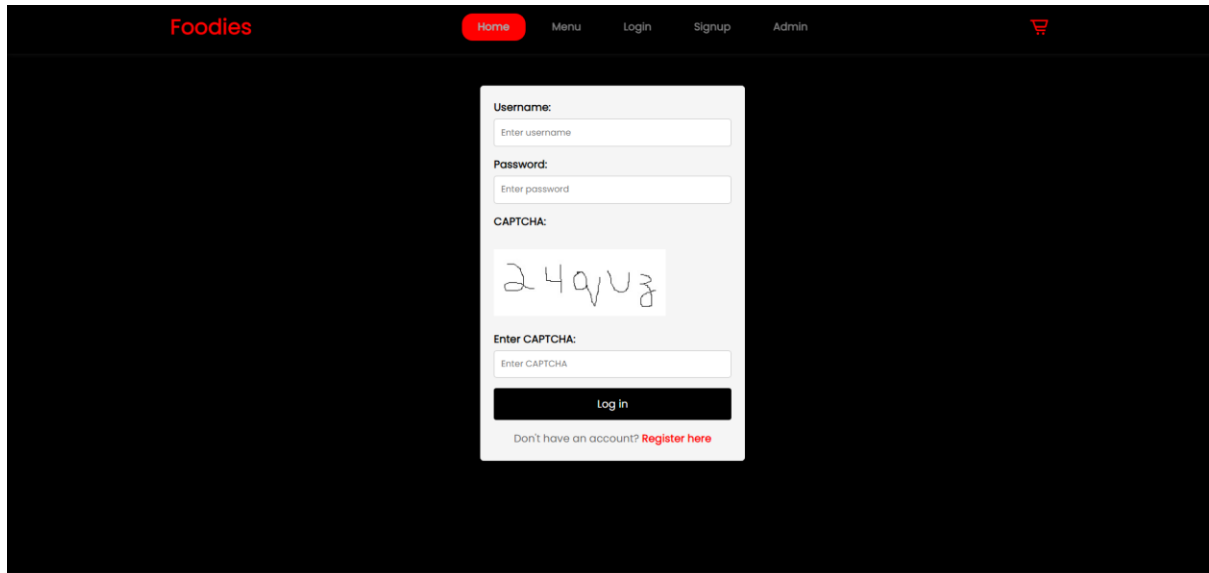


Footer Section: At the bottom of the page, users can find important firm information, such as contact information and a brief synopsis. This section offers users extra information about the brand and its goods.

If the user wishes to purchase a food item, they may simply click on the menu located in the navigational bar from anywhere on the webpage. If they are on the site, they may simply click the order now button and be brought to the menu selections, or they can scroll down to discover the menu area and select any food of their choice.

Login page:

Once the user is on the login page user needs to enter their credentials, if for some reasons user wants to navigate to the homepage again without logging in they can just use the top navigational bar and go to homepage, otherwise, user can just enter their credentials and then they will be redirected to the homepage.



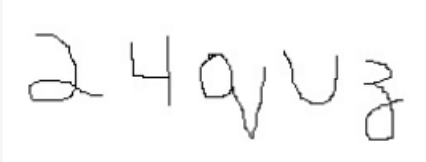
The screenshot shows the login page of a website called "Foodies". The page has a dark background. At the top, there is a navigation bar with the "Foodies" logo on the left, a "Home" button in the center, and links for "Menu", "Login", "Signup", and "Admin" on the right. A shopping cart icon is also visible on the far right. The main content area features a white login form. The form has three input fields: "Username:" with a placeholder "Enter username", "Password:" with a placeholder "Enter password", and "CAPTCHA:" with a placeholder "Enter CAPTCHA". The CAPTCHA image shows the text "24qvuz". Below the CAPTCHA input is a "Log In" button. At the bottom of the form, there is a link that says "Don't have an account? Register here".

Once the user wants to enter their credentials they will need to enter their username which is their email address with the password and captcha. The user needs to put everything carefully as if they enter any wrong detail it will prevent them from accessing the website and they will have to re-enter their details again. On the wrong attempt of entering captcha the page would just reload it self and clear all the details entered before so user would have to enter their details again. Upon entering all the details correctly user will be granted permission to order food. This precaution has been taken to make the webpage more secure and to avoid any kind of malicious access. Once the user has entered their details they can then easily navigate through all the webpages and will have full access to all files.

Username:

Password:

CAPTCHA:



Enter CAPTCHA:

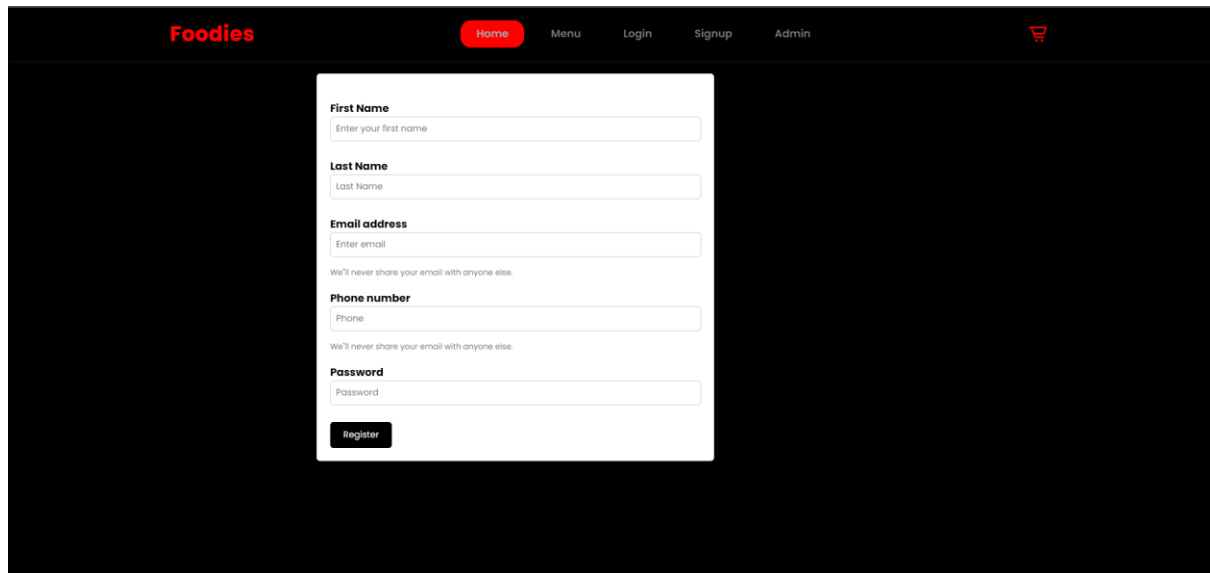
Log in

Don't have an account? [Register here](#)

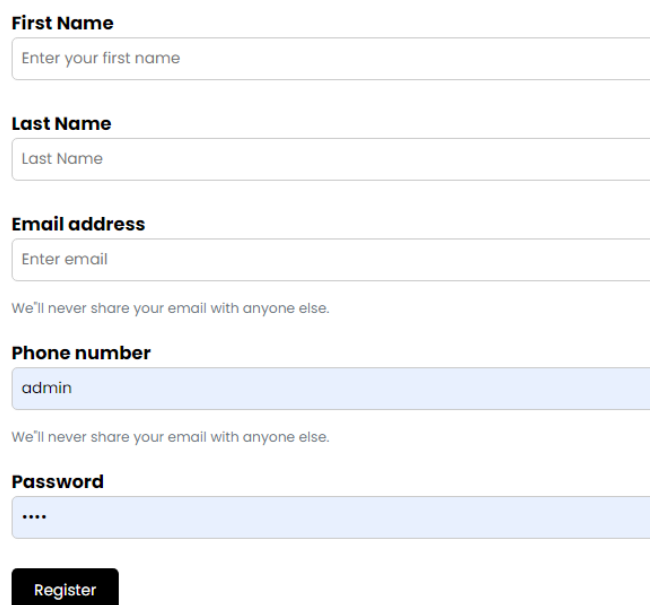
after the user credentials are entered they will be verified though the online database, so they can be connected to the online market and when they purchase or get any food item into the cart, food items would be under the user id and so any kinds of miscommunication be avoided at all times so best service can be provided to the user.

Registration page:

If by any chance the user is new and don't have an account on this website they can just click on the registration button on the navigation bar or at the bottom of the login page container which will redirect them to the registration page .

A screenshot of a web application's registration page. The page has a dark background. At the top, there is a navigation bar with the logo 'Foodies' in red, a 'Home' button in a red pill shape, and links for 'Menu', 'Login', 'Signup', and 'Admin'. A shopping cart icon is on the right. In the center, a white registration form is displayed. The form contains fields for 'First Name', 'Last Name', 'Email address', 'Phone number', and 'Password'. Each field has a placeholder text. Below the 'Email address' and 'Phone number' fields, there is a small text line: 'We'll never share your email with anyone else.' At the bottom of the form is a black 'Register' button.

On the registration page the new user can fill all the fields and corresponding information needs to go in every field which is directly linked to the database. As soon as the form is completed all information in the fields would then be uploaded to the database which will make a new customer entity in the database and save it for future. Once the entity is saved in the database it can be used in the future to ease the customer and save their time. Also it can be used to keep track of all the customers whoever visits the website and order food from the website.

A detailed view of the registration form. It shows five input fields: 'First Name' with placeholder 'Enter your first name', 'Last Name' with placeholder 'Last Name', 'Email address' with placeholder 'Enter email', 'Phone number' with placeholder 'Phone', and 'Password' with placeholder 'Password'. Below the 'Email address' and 'Phone number' fields, there is a small text line: 'We'll never share your email with anyone else.' At the bottom is a black 'Register' button.

Order:

Once the user has decided to order their food they just need to click on the cart icon which is available on the navigation bar or in the food menu section. So after clicking the icon user will be redirected to the cart page where user can either add or delete the quantity of the item they chose before. Once the user is satisfied and wants to proceed there will be an option to pay for the items they have selected. They can choose to pay by credit or debit and once the order has been processed, user will be taken out of the cart and they can navigate through the website again if they wish to order more food.

Functionalities:

The website is precisely designed with a responsive layout, ensuring a consistent user experience across a wide range of devices, including PCs, tablets and smartphones. This versatility is critical in today's digital landscape, when people access websites via a variety of devices with different screen sizes and resolutions. By adapting the layout and functionality for various screen sizes, the website ensures that users can simply navigate, browse, and engage with its content regardless of the device they are using. Whether viewing the site from a laptop, a tablet, or a smartphone, visitors can expect a consistent and engaging experience that is straightforward and user-friendly across all devices.

Database:

The seamless integration of SQL database capability with PHP allows the website to dynamically fetch and display food products directly from the database on the homepage. This dynamic technique provides unrivalled versatility in maintaining and changing menu items, eliminating the need to manually edit HTML code. By keeping menu information in a SQL database, administrators may simply add, remove, or amend food items, pricing, and descriptions using a user-friendly interface, resulting in real-time changes to the website. This effective solution not only simplifies the effort of keeping an up-to-date menu, but also ensures that consumers always have access to the most recent options, improving their browsing experience and encouraging repeat visits.

Suggested Improvements and Conclusions:

The website has been built with engaging interface and seamless ordering experience with dynamic menu style and smooth navigation. However, to elevate the website's functionality and user experience several area can be worked on which could improve the website significantly.

Due to the limitations of time cart button does not work properly, code has been added in the file but still due to the limitation of the time I could not finish the final product on time. Also the Admin part still needed to be implemented, in admin part , staff can view

all the orders and manage the inventory or have customer service but due to the limitation this part was not achieved.

The one area that our site might need an upgrade is the navigation. Despite the fact that the current design facilitates navigation across the main sections (menu and testimonials), improving the design of the navigation bar and providing more features, like drop-down menus and search function, could further improve the user's accessibility and satisfaction.

Also for security reasons, user authentication can be introduced which could make the website more secure. Implementing additional security measures like two-factor authentication could be proved beneficial in terms of users could feel that their personal and sensitive data is secured and no one can access it without their permission.

Tasks Table

Task	Comments
1. Food company webpage	All the webpages are linked with each other making a complete food company website
2. Submit SQL files to generate the tables in the food company	Yes,
3. Registration page	Registration.php
4. Login page (mention whether with/without Captcha)	Login.php with captcha
5. Security aspects (preventing attacks) of the Registration and Login page	yes
6. Search engine optimization aspects in the food company webpage	SEO has been implemented in it.
7. User Registration validation using React framework	NO
8. Data management	Customer Registration Table: yes Customer ordered table: Yes
9. RESTful webservice for the	Yes.

food company Manager	
10. Any other information (remarks)	Responsive