Vidzeme University of Applied Sciences

**Faculty of Engineering**

Web Technologies and Secure Websites

group 05

large project work: A kebab place

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# Project planning

**The purpose and objectives of the website:** To create an intuitive and accessible application for kebab business and their customers.

**Target audience:**

* Customers which are looking to make orders online.
* Kebab shop owners who want a digital platform to grow their business.
* Kebab shop staff to have easier time managing orders

**Features and functionalities:**

* Easy to navigate front end
* Backend with user-friendly interactions in mind
* CRUD operations for system administrators
* Organized structure for future scalability
* Display of products from the database

**Roles and responsibilities of each member:**

In this large project work, each team member does not have a specific role. Instead, we give each other ideas, and assist in improving each other’s code, through this type of collaboration, we ensure that everyone is able to implement their ideas, and that no one is doing significantly more work than someone else.

# Frontend Development (Client-Side)

We took one of our first group projects as a template, to base this application. Afterwards we created several new html pages, to ensure that the website contains all the necessary content we want.

## HTML

We created multiple pages: ‘’index.html, about.html, home.html, contact.html,” and many more to ensure the application contains all the necessary content we wish to display. Nearly all the HTML pages are separate pages on the website, which can be accessed either by a regular user or an admin with permission. The only exception is navbar.html, which is present on every page, by using a JavaScript function.

### Navbar.html

A screenshot of a phone

AI-generated content may be incorrect.

## CSS & Bootstrap

With the help of CSS and Bootstrap, we’ve improved the design of our site, so that the site is more visually pleasing and easier to interact with, we also kept in mind different resolutions and aspect ratios of the app for mobile users, so the app automatically adjusts to the size of your screen. CSS has been used for responsive web design, the pages are styled with its help to format the pages, so they are user-friendly even for mobile devices. A major use of bootstrap is to relinquish the amount of useless CSS lines, where it’s possible to add bootstrap instead of CSS. For example, Contact.html is mostly styled using bootstrap.

### Contact.html

A screenshot of a contact us

AI-generated content may be incorrect.

### Contact.html on a mobile device using responsive web design

A screenshot of a computer

AI-generated content may be incorrect.

# JavaScript implementation

We implemented JavaScript mainly for such tasks, which other programming languages can’t. At the very start of this project, we created a separate folder and a separate file for it. Then we connected it to HTML files as necessary. JavaScript provides the functionality of the website on the frontend, from authentication to logic, which guides the cart, and further order functionality. We made a JavaScript script which automatically changes the design of the navigation bar dependent on the page, for example, if you’re at the home page, the home page button will be colored a bit more darkly than the other buttons. Another use for JavaScript includes fetching data from the backend, allowing the frontend to receive data from the PHP code and the database.

### JavaScript function showing on which website are you by coloring the current pages button

A screenshot of a phone

AI-generated content may be incorrect.A screenshot of a phone

AI-generated content may be incorrect.

# Backend Development (Server-Side)

We have created PHP code, which allows for the program to communicate with the database, which contains user information, which is necessary to log in as a guest or login in as a system administrator, once a user registers, their register data will be entered into the database, upon logging in the database will fetch the data, if it matches, the user will successfully log in. We have implemented CRUD operations for the table ‘’menu’’, in which an administrator is able to edit, delete, and add new food items to the menu. This implementation makes it much easier, and safer to alter the contents of the menu, not needing to directly interact and manipulate the code or the database and its tables. The main use of the backend is to allow for communication between the website and the database.

# MySQL Database

We have created a database structure which corresponds with our plan. We have created tables which contain food lists and user lists. We’ve used multiple SQL queries for data manipulation using CRUD operations. Data gets inserted into the users table, if a user registers, then once registered the user can log in using their credentials, and the database will fetch the new query, and if the data matches, user will successfully log in. Orders table logs in receipts, when users proceed with payment. Menu table contains data about the products, which administrators can edit from dashboard.html.

### Database structure

A screenshot of a computer

AI-generated content may be incorrect.

# Functionalities

We’ve added login and register functionality, which allows users to create their accounts, saving their information to the database. This also ensures the functionality of different roles, ensuring that proper authorization is required to view pages meant for staff and administrators. All registered users are now stored in a database, which means that they can log in using their credentials, if the credentials they entered were put in database by registering, the user should be able to successfully log in. The menu pages displayed foods are also controlled by a database, meaning that it is quite easy to modify the menu, if you’re an administrator. Accessing the dashboard as an admin lets you manage the menu; admin can add a new item or edit or delete an already existing one. After a successful purchase, the user can view their order history, seeing the status of the order. Staff members can access a page, named manage orders, which allows them to view all the orders and update their status.

### Dashboard.html

A screenshot of a menu

AI-generated content may be incorrect.

### Order history

A screenshot of a phone

AI-generated content may be incorrect.

### Order management

A screenshot of a computer

AI-generated content may be incorrect.

# List of used resources

<https://www.w3schools.com/cssref/atrule_media.php>

<https://www.w3schools.com/bootstrap/>

<https://www.geeksforgeeks.org/php/php-database-connection/>

<https://www.w3schools.com/js/>