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CST2120

**Web Application and Databases**

Coursework 2- First submission

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# Introduction

This report presents the design and development of our e-commerce website for our fruit company. The website provides an easy way for customers to browse and purchase a variety of fresh fruits online. For this project many programming language and technologies were used such has HTML, CSS and JavaScript link with some module such has jQuery and jQuery UI. In this report, we will cover the functionality and design of the website and the CMS, follow by the structure of the MongoDB database structure who will be used to manage the website different data.

# Ecommerce website

For the e-commerce website we chose a minimalist design to be the more user friendly possible. Each page of the website are sharing a common header and footer.

The Header is composed of the logo of the site on the left, then follow by the home, catalogue, account, basket, and login button linking the different pages for the user to travel across our website.

The footer of the website is designed to be simple and clean. It contains 3 columns, the first one is for social media links, the second is for contact information, and the third one is for quick links. The social media links include icons for popular social media platforms such as Facebook, Twitter, and Instagram. Contact information includes an email address and a phone number. Quick links include links to the company's policies and frequently asked questions

## Welcoming page

### Design

The welcoming is the main page of the website and is compose od three parts in addition of the header on the top and the footer at the bottom. The first part is composed of decoration part with a shop now button in the centre of the screen, follow by the recommendation section of rectangle image for the different recommendation for the user and finally the catalogue section which list all the different fruits buyable in a rectangle with the image, name price per kilo and finally a button “Add to cart”.

### Functionalities

The welcoming page contain important features for the website such as the different button “Add to cart” which add the product to the user’s basket, all the data will be stored in session storage to be use in basket page for the checkout of the order. Also for the catalogue part, all the product will be dynamically display from the product present in the database. The user will be able to search with a search and sort product on the top of the catalogue section and the list of products will be display base on it.

For the recommendation section, the picture display will be based on the user’s orders historic to recommend dynamically and display the best possible set of fruit for this client.

Finally for the welcoming section there is the “SHOP NOW” button who will bring the user down the catalogue section.

## Cart page

### Design

The cart page or basket page will serve the client to see his current basket and proceed to the checkout to buy some product. The page is composed of the same header and decoration section with the “SHOP NOW” button like the welcoming page.

the page continue with the basket section listing on the three quarter left of the screen the list of product added to client’s basket with the number of item add, the product image, the price and a delete button per item. On the space left on the right there is a summary in a receipt format showing the number of item buy, the shipping price, the total price and the taxes apply. Below the receipt information is a checkout button to validate the order. Under these two basket and summary there is a “CONTINUE SHOPPING” button.

### Functionalities

On this page, the basket section has a high importance on the well execution of the order’s client process and user experience. The list fruit in the basket will be display dynamically with all the different fruits information and an input which the user can modify to change the quantity of fruit buy. Modifying the quantity will automatically readjust the information displayed relate to the quantity such as the total price.

## Account page

### Design

# CMS

# MongoDB Database Design

# Conclusion