

Mycustom website

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Abstract—In this report, the organization of the website mycustom is detailed. The selling process is explained and its implementation is detailed as much as possible. The tools that has been used to develop this website are listed, and many links are proposed to the readers if this latter has any doubts or questions. This document is written in order to guide furthers developers and try to go as far as possible in the technical detail of the architecture of the website.

I. INTRODUCTION

This document contains all the useful informations to understand how the website mycustom is build. Some basic knowledges is assumed known such as HTML, CSS, JavaScript and Python. If the readers has any gaps, see [1], [2], [3], [4]. The comprehension of these languages is quite important to understand the following of this report

Some framework are used for the development, such as Django [5], [6] for the backend engine and Bootstrap [7], [8] for the frontend. Less is also used for more convenient use of CSS [9]. Furthermore, Gruntjs is used as a system manager [10]. An effort has been put into transpiling the regular Javascript code in *es6* Javascript. JQuery is also used in some parts of the website. Again, if needed see [11], [12]. Finally, a graphical user interface (GUI) is developed with the lightweight library P5js [13].

II. GLOBAL OVERVIEW

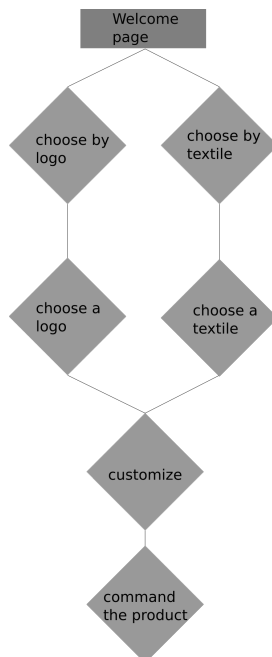


Fig. 1. Selling process of the website mycustom

The selling process is represented on Figure 1. The idea is the following : the customer lands on the welcome page of mycustom. There, he can choose to browse the product either by textile or by logo. Once he has choose both, he can customize his choice, i.e move the logo on the textile, rotate the logo, increase the size of the logo, write text, change the color of the text ...

This is achieved by building the site in two distinct part. The first one is a single app page that allow the customer to browse the product as easily as possible. The seconde one is a graphical user interface (GUI) that allows the customer to customize his order.

Note that some other part are add to the main page. One is so called the "collection éphémère" and its purpose is to promote the newest trends of the moment. This part is added at the beginning of the single app page. An other one is added at the bottom of the single app page. It is the part "vendre" which purpose is to propose to the customer to signe in/up. A social network aspect needs to be implemented (it is currently not done). The idea behind this section of the main page is to propose the customer to sell his own logos and creations. Thus other customers can like logos, follow artistes ...

Finally note that three search bars are added to the main page, one in the menu and two at the bottom of each choosing categories. These search bars are used to find specific textile/logos, thus adding an other way to choose a paire of textile-logo.

III. MAIN PAGE

The overhall principle of the main Page of mycustom is resumed on Figure 2. The main page of the website is organized as a single app page.

In order to soft code (i.e to let the website manager change things without having to rewrite some peaces of code) the visual aspect of the main page, the characteristics of the website parts are stored in the database. The link between the database and the interface client is done by several Django App namely "home", "collectionephemere", "cutsomise", "achetez", "vendre". These apps contains the HTML templates that render in the interface client and the Django models used to fulfill them. The interface admin is able to modify the database in the backend and thus, the interface client. In order to fully understand how a Django app works, see [5], [6].

The purpose of each of theses section is the following :

- home : Contains the landing page of the website, i.e the first thing that the client see. The Django app contains a video for the welcome page, the HTML template for the header, the footer, the menu and the

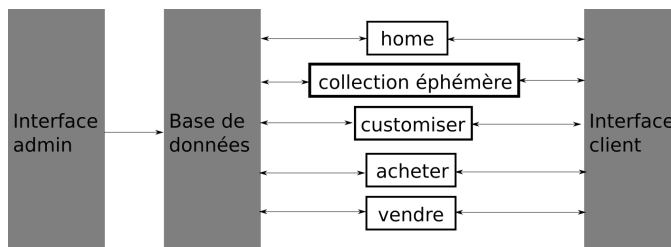


Fig. 2. Global principle of the mycustom website

welcome page. The Django models contains all the visual characteristic for the welcome page. Again, in order to fully understand a Django model, see [5], [6].

- `collection_ephemere` : Contains the transitory trends, i.e the textile and logo of the month.
- `customiser` : This is the place where the customer choose a textile. The textile are classed by two manners : by category and by type of product.
- `achetez` : This the section where the customer choose a product by logo
- `vendre` : this is the place where a customer can signe in/up. The social media aspect of mycsutom needs to be put in this section.

The Bootstrap framework is used in order to render the visual aspects of the website. In order to fully understand Bootstrap see [7], [8]. The Django template engine will fill in Bootstrap code with data of the database in order to achieve the desire visual output.

A very important task in the developing of the main page is optimization. Indeed, if all the pictures are loaded at once, the main page would take a very long time load. In order to bypass this drawbacks, a lot of pictures are loaded ajax.

IV. TSHIRT DESIGNER

This section describes the GUI developed in order to let people customize their orders and commands. It is developed in JavaScript with the library P5.js [13].

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