Alex's Sportswear Web Application

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1 Introduction

My application is an e-shop with clothes for men, women and kids. This web application prototype is developed with Python, HTML, Jinja2 and Css styling. The users can

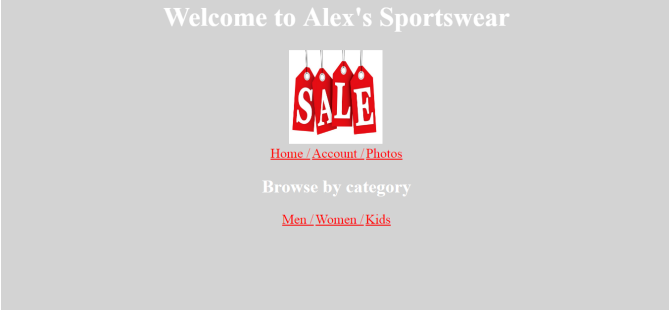

Figure 1: **Home page**

navigate and find products by selecting the categories. By navigation from the menu is the only way to explore items. At the moment there are no search an item option or filter your results.

In the website there is error message function for potential mistakes by the users of the website. Every time that you are trying to visit a page that does not exist you are going to be redirected to the html page with the error message.

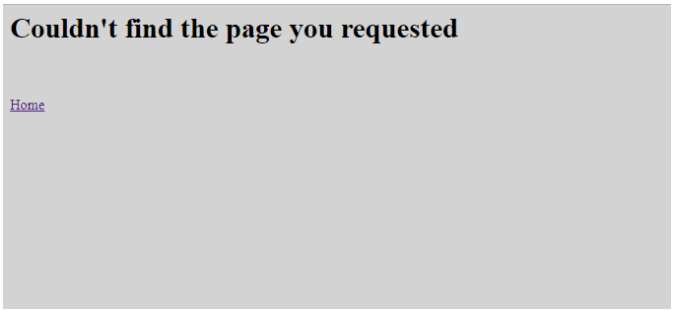

Figure 2: **Error page**

You can also add your name by visiting the Account page. The data are not stored in a separate file but it would be a nice enhancement in a future update. For now this is only visual and it does not have any other functionality. I have also included separate page to display images with html tags from .py file. When the website will be completed this page will be full of photos with products you can find to buy from the website.

2 Design

The website is structured to make the navigation experience easy for all users. In order to display the products first you have to choose between: men, women or kids. After choosing the first category you are redirected to the selected page. All of the categories include another three sub-categories to choose: tops, trousers or shoes. Then after selecting the type of clothing you will get a list of items. For example if you choose men and then trousers you will be redirected to /men/trousers. The website is designed this way because

Figure 3: **Navigation Map**

it is a very organic way of looking products in real life as well. First you would go and find your department, then the section you are interested in, and lastly the items individually. The navigation map at Figure 1 shows how the URL structure works.

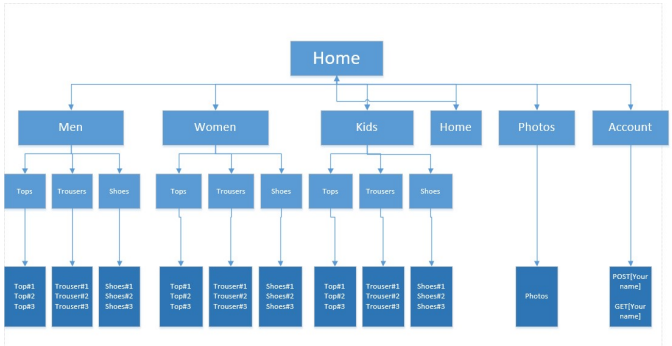

Figure 4: **Navigation Map**

3 Enhancements

Now the website it looks quite empty because it is only a prototype but when we will have the complete list of items that we are selling we will be able to re-design the navigation and add all the products with their images to the website. This prototype website needs a lot of work in both aesthetical but technical side as well. Starting with the design I am going to have to improve the look of the website. This can be done in CSS by adding more styling. Another way to improve the look of a website is to add bootstraps. Personally I have not worked with bootstraps before but I would like to have a look to all these available bootstraps to see if I like to include any of them in the website. Some of the bootstraps can be used on the navigation, gallery or carousel for photos. For the technical part of the website, there are a lot of tools that can be applied to make it more functional, interesting and efficient. I would like to improve the way to get the results. At the moment the pages are in HTML and the results are static. It would be more professional if I change that to Jason so I can then start combining lists to get more advanced results. For example the user is unable to search for all the trousers available. There is limitation to the Category that he has to choose before (Men, women or kids). Also there is no search functionality in case someone wants to look something by name and avoid going through the navigation.

In addition the Product Photos and Account page are returning python code only. I would like to fix that and add html and css styling to fit with the rest of the website.

The account page needs some work to become functional. In this page there will be a form that the user can fill in with personal information in order to create a profile. With this profile the user will have access to other functions of the website.

With the Profile log in functionality we will be to enable a number of important actions that the user can perform within the website. We can create shopping cart and online transactions. The users will be able log in with their details and purchase a product. And that is what makes an eshop so powerful in the market. Apart from that we can add functionalities like adding a favourite product, rating a product or even commenting about a product.

4 Critical Evaluation

The routes are working perfectly, and the Jinja tags as well. When I run the python file with the routes in it I return an html page with Jinja tags. Now depending on which rout you are this html page that works as a template include other secondary html files. This is an economic way to build a website and use jinja2 tags instead of the whole HTML page. When a website will scale to a very large one will make a massive difference.

Although I couldnt manage to achieve Jinja2 templating in multiple pages. I am not sure if there is any way to make this work but the Jinja2 is working as it supposed to work only for the first level of the website. It seems to be brake after the second template. For example it works if you visit the Men page but if you go to men/trousers it breaks.

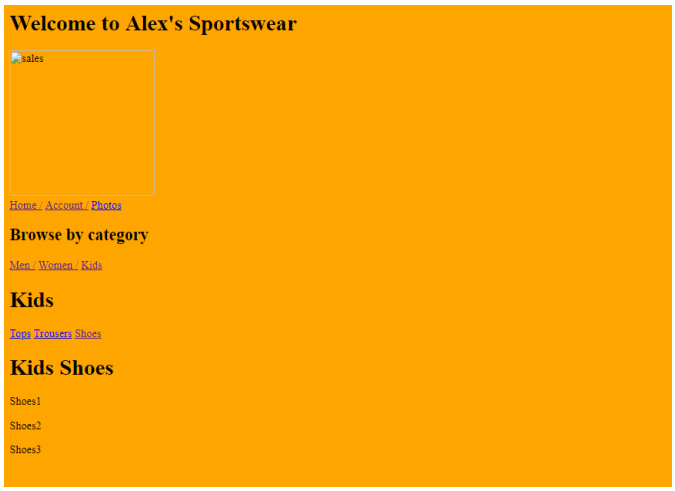

Figure 5: **/kids/shoes page**

The error message when you are trying to visit a page that doesnt exist is also working as expected.

As I mentioned at the Enhancements above, I didnt manage to make the Product Photos and account pages to return python and html together. At the moment they work for the functionality but they dont fit with the other pages of the website because they dont return any html.

5 Personal Evaluation

It was the first time for me to work on a remote server with PuTTY. It was not extremely difficult but I think I was very familiar with the environment very quickly. Also its my first contact with python programming. I have learned some basics for python but I still did not manage to make everything working as I was planning. I think I should have given some more time to explore Python but I am sure I am going to have to for the next submission. It was also the first time to use Jinja2 tags in HTML files. I really enjoyed working with Jinja2 and I would like to learn more about it. It can become very handy when it comes to template your website. I have learned a lot of new things developing this first python web app. There are a lot more things to come but as a first taste on python I think I performed very well.

Maybe I did not approach this assignment with the perfect way. As it was hard to think how other technologies can interact with each other to create a web application. I was always thinking how everything work in HTML so it took a lot of time to try to approach the project different than I did. For the next project I will try to focus completely on the new ways and do not try to think with skills that I already have, because in this occasion it was wrong.

6 References

I didnt really use any additional resources for this assignment. This web app was built only with the skills that I gained from the workbook until chapter 7. Although when I stuck with the jinja2 templates I looked for help online at forums and videos. This article was the best to help me understand a few more things on how it works.

Also I could not remember some of HTML and CSS which I had to refer to w3schools to double check my tags.

https://www.w3schools.com/html
https://www.w3schools.com/css
http://jinja.pocoo.org/docs/2.10/templates/