

Week 10

This week I was working on the product list page. The products listed on this page will be shown based on the filter located on the upper right corner.

Before designing the filter, I designed the template for the product detail including the image of the item, the price, and a button link to the product page. The number of the templates will be shown is calculated from the database.

The 4 buttons on the right upper corner define 4 different filters which will change the showing result for the templates. "Sort by order" will change the template following by the order from the database. "Sort by reverse order" will reverse the order from default result. "Lower price first" makes the lower price items appear first. The result for "Higher price first" is the opposite of "Lower price first".

This page looks simple, but there are still some problems when I was designing this page. First, I was thinking refresh the page when users click the filter; however, this action may cause a little user unfriendly. Users may waste several seconds waiting the page to load, and it may waste longer time when there is huge data to load. I have looked several websites such as Ebay and Amazon, they only refresh the item list when users change the filter, so I decide to use the same way for my page. I use Bootstrap tabs function instead of refreshing the whole page for every filter. So, when users click the filter, the page will show the page corresponded to the tab. However, because there is a SQL command on every tab page, it may need a little more time to load the page, but I believe it will save time when changing the filter.

Second, the system allows users upload the product image when filling the form, but the uploaded images have different height. Therefore, the second problem is that I need to handle the height for every image so that all the image will not be too long and exceed the template. I have searched several websites, but neither of them has the best answer for me. What I want to do is to automatic adjust the height for the image to 200px if the height of the image is over 200px; otherwise, remain the original height. Finally, I found a site that tells an idea of CSS expressions [1], so I can combine JavaScript into CSS expression to reach my goal for image handling. W3schools has the tutorial of onload event [2] which is the perfect script that can put into CSS expression. Therefore, below is the combination for the onload event and CSS expression.

```
img{max-height:200px;
```

```
myimg:expression(onload=function()){ this.style.height=(this.offsetheight >
```

```
200)?'200px':'auto'}});}
```

The above CSS script can limit the oversize image into 200 px height and keep original height for small picture so that each product template can remain the same size.

References

[1] <https://segmentfault.com/q/1010000005735448>

[2] https://www.w3schools.com/jsref/event_onload.asp

This is entirely my own work, except as disclosed in the documentation. I gave help to the following persons:

Signed Cheng Wei Liao