

EE101 Final Project Report

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1 Overview

1.1 Project File Tree

1.2 Develop Environment

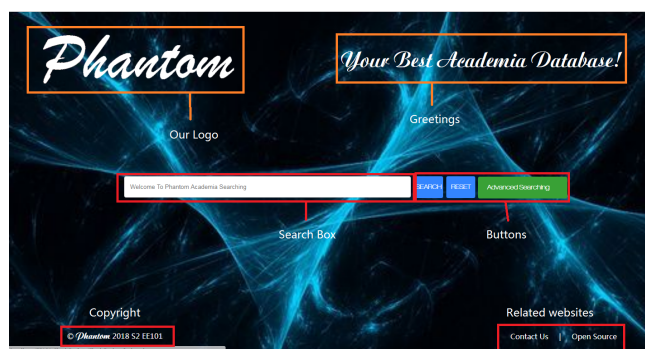
2 Front-end

written by Yifu Chen

I was in charge of the front-end part. I mainly used CSS and BOOTSTRAP to beautify our website. In my opinion, I hope my websites be plain and straightforward, so I did not decorate our websites deliberately, and this my idea of designing the layout for our websites.

I will introduce my work of each page respectively.

2.1 Index.php



Our index page is shown above. First of all, I would like to introduce the process of my designing our home page. At first, there were three search boxes in the page. The search box "Author", "Title" and "conference", and the layout of the index.php was settled. Then, we decided to use multi-searching. Therefore I cut down the number of search boxes into one. Finally, I polished the index.php and the page became what you can see now.

The elements the index page consists of was shown in the graph above, and I am going to introduce every part respectively.

By the way, the favicon of our websites was *Raffaello's The School of Athens*.

2.1.1 Logo

The name of our search engine came from *The Phantom of the opera*, one of my favorite films, and I hope that the speed of our searching engine can be as fast as a phantom. It took me so much time to find an appropriate font to display

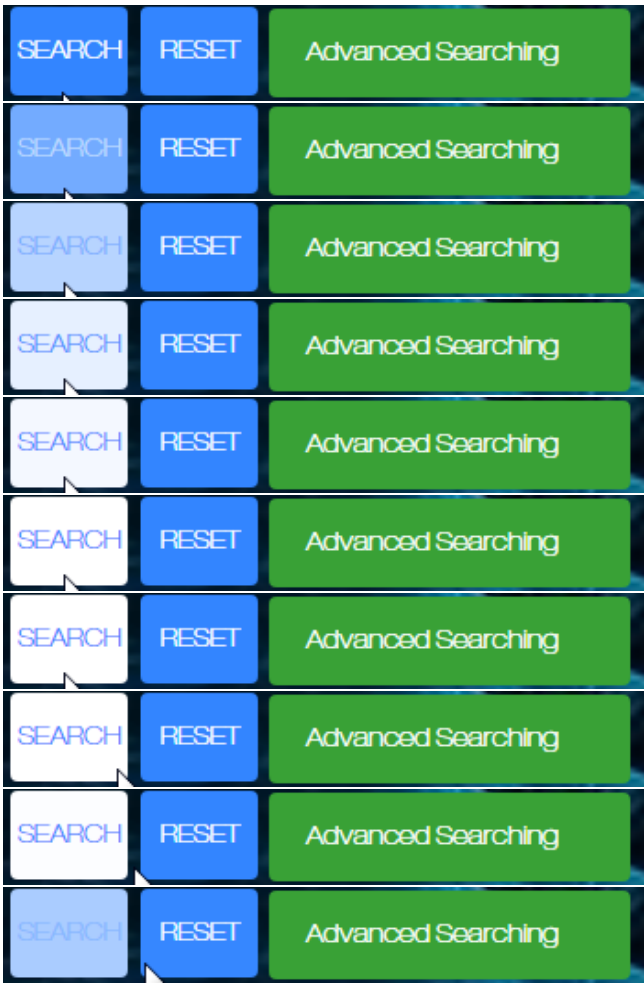
our logo.Finally I found out a font ”书体坊兰亭体”.However,the words could not be shown in terms of vector graph,which meant that the edge of the words were not smooth,and that is a defect a our logo.

2.1.2 Greeting Words

To display the greeting words,I also spent plenty of time to find a appropriate fonts.Finally, I found a font named ”ChannelSlanted2” to present the greeting words.

2.1.3 Search box & buttons

The search box and the buttons are the key part of the page,and I beautified the buttons,and the result was shown in the following pictures.





SEARCH	RESET	Advanced Searching
SEARCH	RESET	Advanced Searching
SEARCH	RESET	Advanced Searching >>
SEARCH	RESET	Advanced Searching >>
SEARCH	RESET	Advanced Searching >>
SEARCH	RESET	Advanced Searching >>
SEARCH	RESET	Advanced Searching >>
SEARCH	RESET	Advanced Searching >>
SEARCH	RESET	Advanced Searching >>
SEARCH	RESET	Advanced Searching >>
SEARCH	RESET	Advanced Searching >>
SEARCH	RESET	Advanced Searching
SEARCH	RESET	
SEARCH	RESET	
SEARCH	RESET	Advanced Searching
SEARCH	RESET	Advanced Searching



2.1.4 Copyright & Related Websites

These two parts were mainly written by Ziliang Guo and Aofan Jiang and Hyperlinks were set on the texts "Contact Us" and "Open source".

2.2 Search.php

I am going to introduce every part of search.php respectively.

Phantom navigation bar Welcome To Phantom Academia Searching Search

Multi Field Search: jiawei han

body part

Title	Authors	Conference
mining heterogeneous information networks	jiawei han;	SIGKDD
mining frequent patterns by pattern growth methodology and implications	jiawei han, jian pei	SIGKDD
mining heterogeneous information networks a structural analysis approach	yichou sun, jiawei han;	SIGKDD
closegraph mining closed frequent graph patterns	xibing yan, jiawei han	SIGKDD
dynamic generation and refinement of concept hierarchies for knowledge discovery in databases	jiawei han; yongqian fu;	SIGKDD
chinese-japanese cross language information retrieval: a han character based approach	yuji matsumoto, md maruf hasan	ACL
resource and knowledge discovery in global information systems: a preliminary design and experiment	osmar r. zaiane; jiawei han;	SIGKDD
on trivial solution and scale transfer problems in graph regularized nmi	chris ding, jiawei han, quanquan gu	UICAI
advances of the oblearn system for knowledge discovery in large databases	simon tang, jiawei han; yongqian fu;	UICAI
classifying large data sets using svm's with hierarchical clusters	jiong yang, jiawei han, hwanjo yu	SIGKDD
an efficient multi relational naive bayesian classifier based on semantic relationship graph	xiaohu yin, jiawei han; hongyan liu;	SIGKDD
collective topic modeling for heterogeneous networks	jiawei han, bo zhao, hongbo deng	SIGIR
tensor space model for document analysis	jiawei han; deng cai; xiaofei he;	SIGIR
clustering moving objects	yifan li, jiong yang, jiawei han	SIGKDD
metarule guided mining of multi dimensional association rules using data cubes	micheline kamber; jiawei han; jennifer chiang;	SIGKDD
robust tensor decomposition with gross corruption	huan gu, jiawei han, quanquan gu	NIPS
	rwangh, qianlin, jiawei han; yichou sun	WWW

localhost/E01-Final-Project/Final-Project/Title.php?title=mining+frequent+pat...1+with+clustering

2.2.1 Navigation Bar

I used css and bootstrap to construct the navigation bar. I thought there was no need to build a that complicated navigation bar, so I just put our logo in the top left corner of the screen and set it with a hyperlink to the homepage, and in the top right corner if the screen was a search box to conduct multi-search.

2.2.2 Body Part

3 Overview

[Start] — By Ziliang Guo 518030910273 —

(1) I took the initiative that we take full advantage of Github to accelerate our project. I also create a document to take notes of the problems we met and the solutions.

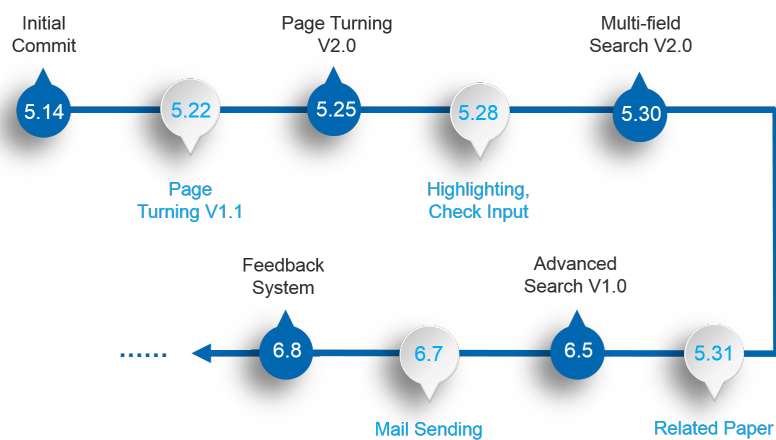
(2) Actually, I wrote the manual and uploaded my Lab 01 - 03 codes to unify the databases.

(3) I mainly focus on the back-end development.

(4) Of all my codes, I wanna highlight that approximately 85% are mainly created independently. For the remaining codes, modification is applied, with reference to some online blogs.

(5) Meanwhile, during my coding, I always remember to leave interfaces for my collaborators.

(6) As is vividly depicted in the timeline graph, I realized and improved different sections separately, in other words, term by term. Of course, my constant improvements are shown.



4 Keyword Highlighting

I adopted the “hl” settings of Solr. It is somehow very simple. Just echo the corresponding urls will do.

However, please notice that, for multivalued fields such as Authors_Name, only the highlighted part is returned. So I made judgements in such special cases.

Codes:

```
$url = "http://localhost:8983/solr/
lab02/select?indent=on&q=Title:". $query. "
^1+OR+Authors_Name:". $query. "^0.7+OR+ConferenceName:
". $query. "^0.5&start=" . ($page_limit*($page-1)). "
&rows=". $page_limit. "&wt=json&hl=on&hl.fl=Title,Auth
ors_Name,ConferenceName&hl.simple.post=<%2Fb><%2Ffont>&h
l.simple.pre=<font%20color%3D%23FF0000><b>" ;
```

[End] — By Ziliang Guo 518030910273 —