EE101 Final Project Report

Yifu Chen,Jialong Guo , Ziliang Guo, Aofan Jiang

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目录

1 Overview **1**

1.1 Project File Tree 1

1.2 Develop Environment 1

2 Front-end **1**

2.1 Index.php 1

2.1.1 Logo 1

2.1.2 Greeting Words 2

2.1.3 Search box & buttons 2

2.1.4 Copyright & Related Websites 5

2.2 Search.php 5

2.2.1 Navigation Bar 5

2.2.2 Body Part 5

3 Overview **6**

4 Keyword Highlighting **7**

1 Overview

1.1 Project File Tree

1.2 Develop Environment

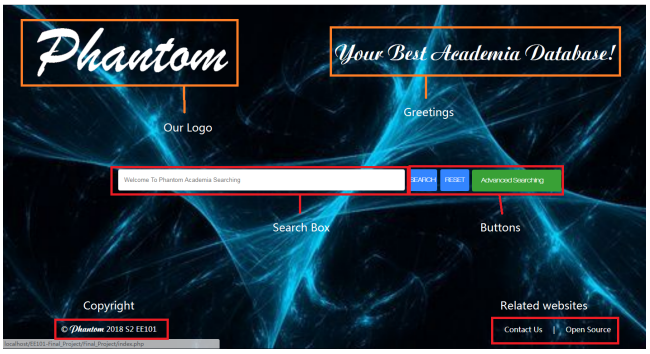
2 Front-end

written by Yifu Chen

I was in charge of the front-end part.I mainly used CSS and BOOTSTRAP to beauify our websitek.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 fo 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,ang 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 a 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 approriate 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.

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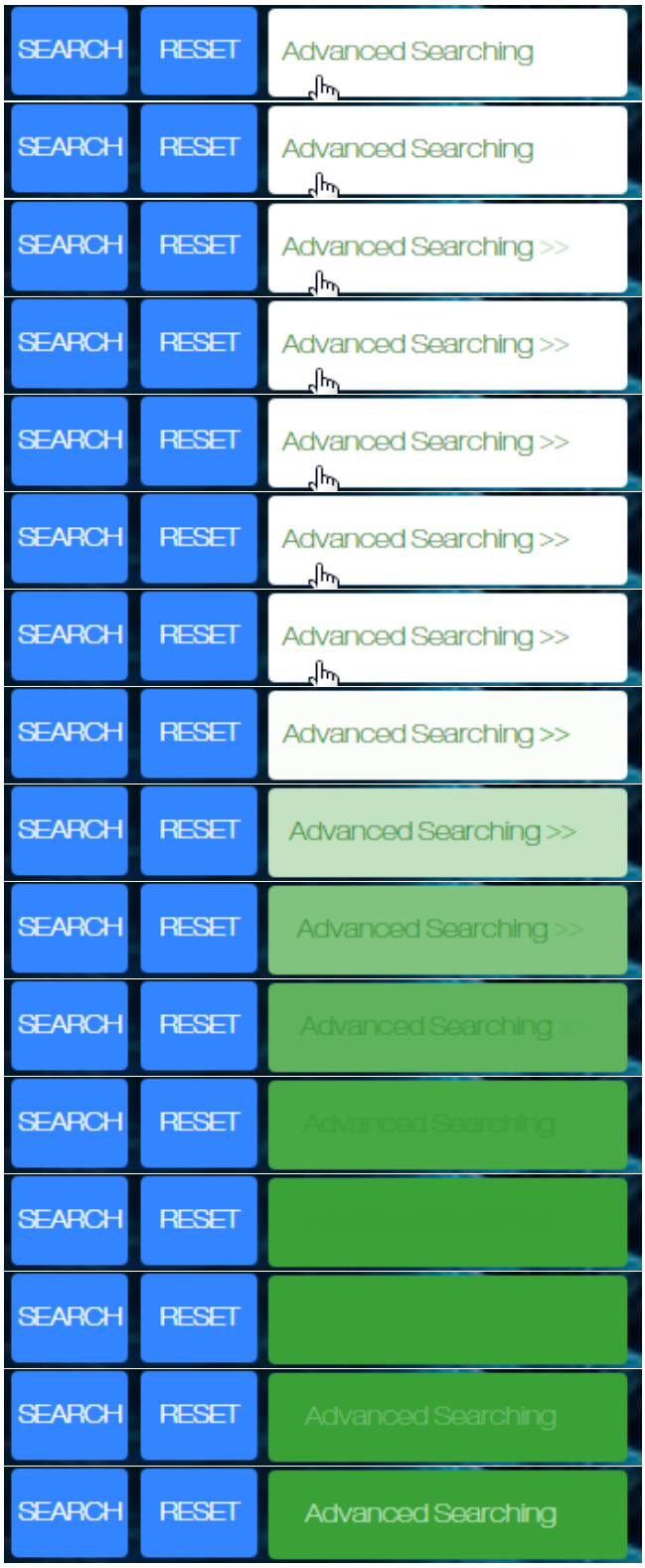
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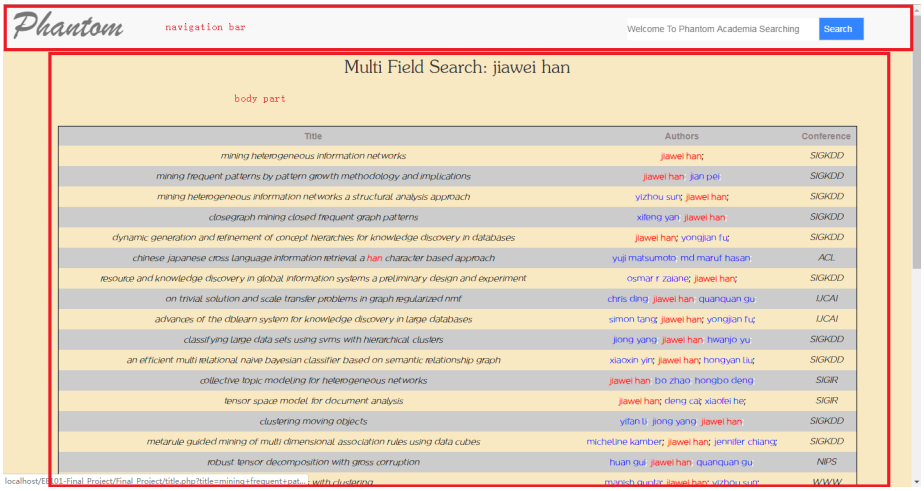
2.1.4 Copyright & Related Websites

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.



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 porblems we met and the solutions.

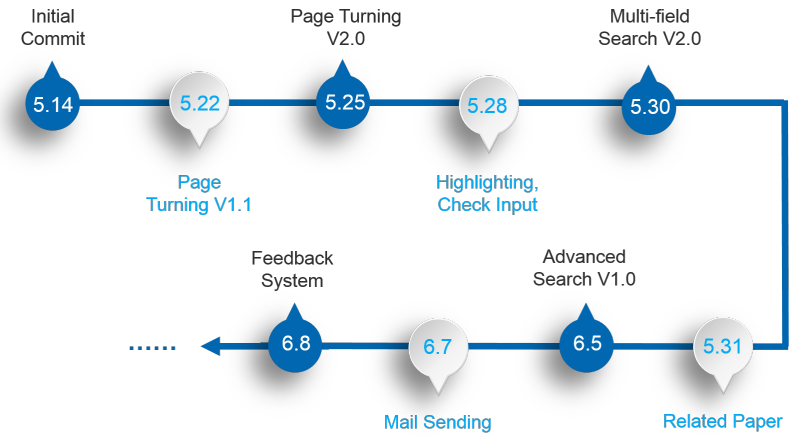
(2) Actually, I wrote the manual and uploaded my Lab 01 - 03 codes to unify the databases.

(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 —