



同济大学

Tongji University

《HumanComputerInteraction》

Final Project Report

Report name:

Welcome Tongji Web

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目录

1.Project introduction.....	3
1.1.Project description.....	3
1.2.Project structure and modules	3
2.Project sections	4
2.1.Section - home page	4
2.2.Section - about tongji	5
2.3.Section - campus style	7
2.4.Section - famous academician	9
2.5.Section - college construction	10
2.6.Section - web forum	11
3.Project functionality and implementation	12
3.1.Implementation of animation	12
3.2.Precise navigation function	12
3.3.Jump introduction function	13
3.4.Picture selection, display function	13
3.5.Web review function	13
4.The advantages and disadvantages of the project.....	13
4.1.Project advantages	13
4.2.Project shortcomings	14
5.Improvement direction of the project.....	14
6.Tasks and contributions of each team member	15

1.Project introduction

1.1.Project description

With the arrival of the annual college entrance examination season, the enrollment work of universities is also busy. As a member of Tongji University, I have the obligation to do publicity work for my Alma mater. The final project of our group is to make a user interaction page named "Welcome Tongji". Based on the Bootstrap library in css style and the jquery library in Javascript, we follow the principle of "Fluid navigation" learned in the class, to complete the construction of the web page and the realization of the user interaction function.

1.2.Project structure and modules

The document structure of this project is as follows:

```
| pre_welcomeTJ.pptx
| report_welcomeTJ.pdf
|--welcomeTJ
|   |--.vscode
|   |--images
|       |--gallery
|       |--icons
|       |--main-slider
|       |--people
|       |--school
|   |--bootstrap_css
|   |--font
|   |--jquery_js
|   |--my_css
|       |--about.css
|       |--bbs.css
|       |--main.css
|       |--people.css
|       |--school.css
|       |--video.css
|   |--myjs.js
|   |--mycss.css
|   |--welcomeTJ.html
```

picture 1.1: Project directory structure

·pre_welcomeTJ.pptx: Project defense: PPT

·report_welcomeTJ.pdf: Document of this project

·welcomeTJ: item status code

Module for the project code:

·images folder:The picture required by the project,with multiple folders,
placing pictures of different modules

·bootstrap_css folder:The bootstrap library referenced by the project

·jquery_js:The jquery library referenced by the project

·font folder:The font format to which the project refers

·my_css folder:The css style for each section of the project

·my_js:The Javascript code of the project

·mycss.css:Total css style, reference the styles in my_css and bootstrap_css

·welcomeTJ.html:html file,Open to run the introduction page of this project

2.Project sections

This web page project is divided into six parts, which are the home page part, about Tongji part, campus style part, famous academician part, college construction part and web page forum part.

2.1.Section - home page

Open the welcomeTJ.html to access the web page.



picture 2.1: Preloader

Before going to the main page, there is a GIF pre-play, showing the dynamic beauty of the web page. At the same time, I also used text to thank users for browsing the web.

The home page is divided into two parts, one is the upper navigation bar, the upper navigation bar can realize the positioning and quick switch part of the function, this I introduce below; the other is the theme scroll window picture display. The rolling window picture shows the three main pictures of Tongji as the background, with a text description on the previous layer. At the same time, users can press the arrows on the left and right sides to achieve the effect of scrolling through the pictures, of course, if you do not press the arrows on the left and right sides, the pictures will automatically switch in 12 seconds. This navigation page home page is very well implemented to implement the principle of Fluid navigation.



picture 2.2: The home page part

2.2.Section - about tongji

Next, I come to the second part of the web page —— about Tongji. We found that the upper navigation bar shows the part where we are, that is, the font changes from the original gray to blue. At the same time, the back to the top button also appears in the bottom right corner, by clicking the navigation bar can quickly come to the corresponding part, and by clicking the back to the top button can quickly go back to the first part.

关于同济

同济大学历史悠久、声誉卓著，是中国最早的国立大学之一，是教育部直属并与上海市共建的全国重点大学。经过117年的发展，同济大学已经成为一所特色鲜明、在海内外有较大影响力的综合性、研究型、国际化大学，综合实力位居国内高校前列。下面是关于同济大学的部分介绍!~



picture 2.3: About tongji section

About the Tongji part, we show the general situation of Tongji University. The following three boxes show the latest QS ranking, the results of the fifth round of discipline evaluation and the area of Tongji University respectively. These information displays are all accompanied by some animations, and teachers can open specific projects to view. The second part about Tongji is the video display, here is the navigation information: Click here to watch the video to better understand Tongji University.



picture 2.4: video section

Click on the corresponding part, you can go to another page —— Tongji University display video to enjoy.



picture 2.5: enjoy the video

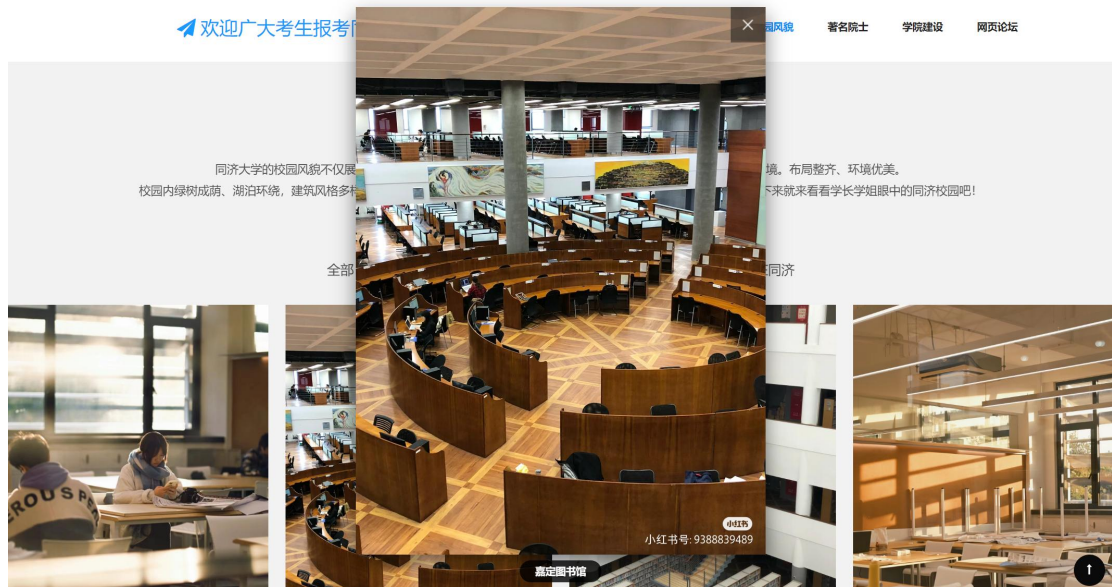
2.3.Section - campus style

The third part of the web page is the display part of the campus features. Similarly, the upper navigation bar shows the parts we are.



picture 2.6:campus style section

This part mainly shows two functions, the first is to click on specific pictures, pictures are also marked with words (similar to the picture label of the third assignment).Click in the following figure on Jiading Library:



picture 2.7:click the detail picture

At the same time, we implemented a function similar to the Filter of the third assignment, that is, click on the corresponding classification option, and different classification pictures will appear. For example, below, click "Learning in Tongji", you will classify the content of learning in Tongji. This is a good example of the Fluid navigation principle, allowing users to quickly view the picture information of the corresponding content.



picture 2.8:filter function

2.4.Section - famous academician

The fourth part of the web page is the display section of the famous academicians. Similarly, the upper navigation bar shows the parts we are.



picture 2.9:famous academician section

There are also two functions implemented in this part. Then we gently hover the mouse on the picture of the corresponding academician, and the specific information will be displayed. At the same time, the introduction information also appears with an animation.



picture 2.10:introduction when mouse hovered

At the same time, we can also click on the "click to know more" hyperlink text, so as to realize the page jump, so that users can better understand the content of the introduction. This implements the principle of Fluid navigation. For example, below, click on the hyperlink text of Academician Chen Jie and jump to the specific introduction page.



picture 2.11:Academician introduction jump

2.5.Section - college construction

The fifth part of the web page is the presentation part of the college. Similarly, the upper navigation bar shows the parts we are. In this part, we show the many colleges of Tongji University. With the introduction of each college, we match the flying animation effect to give users a better viewing and browsing experience.



picture 2.12: college construction section

Click on the corresponding hyperlink tag of each college, and we can also jump to the official website of each college to learn more information. For example, below, click on the official website of our software school:



picture 2.13: college construction jump

2.6.Section - web forum

The last part of the web page is the part of the web page forum. Similarly, the upper navigation bar shows the parts we are. Here, users browsing the web can leave their own comment messages. That is, the user name, comment content and comment release events, we can also delete the comments and other operations.



picture 2.14: web forum section

For example, in the dialog box, enter the user name "a senior three student from Shanghai" and input the comment "I struggle for 100 days, I want to go to Tongji University". Click on the Submit button. Here are the following details of the comment in the display of the web page:



picture 2.15: use of web forum

3. Project functionality and implementation

I have roughly sorted out the following five functional points of this project:

3.1. Implementation of animation

The display of animation is an essential part of the process of interacting with users. In this project, our web page implements the corresponding animation in each section, based on the animation style in the Bootstrap library. Fly out, beat, fade out, and so on. The teacher can click on the project to watch. I will not repeat it here.

3.2. Precise navigation function

As mentioned in the above introduction, our navigation bar realizes the function of precise navigation. For example, clicking each part of the navigation bar can jump to the corresponding part, and at the same time, the navigation bar will also show the

part we are currently, and the user can quickly return to the top in the lower right corner. This precise positioning function well realizes the principle of Fluid navigation, giving users a smooth interaction and viewing experience.

3.3.Jump introduction function

This project realizes many functions of jump page, for example, in the part of watching the video, we can click to jump to the corresponding video page; When the introduction of academicians and colleges, click the corresponding label can also achieve the corresponding jump. Finally, at the end of the page, users can click on the official website of Tongji University to learn more. These functions are explained in detail in the above introduction.

3.4.Picture selection, display function

In the process of interaction between web pages and users, detailed display and presentation is an essential part. In this project, our pictures are displayed in a variety of display effects. For example, on the home page, users can click the left and right arrows to switch the display content. At the same time, in the part of campus features, users can click the corresponding labels to classify the pictures and select to view. These functions are explained in detail in the above introduction.

3.5.Web review function

In the process of user browsing, the interaction of user comments is also an indispensable part. In the last section of the web page. We implemented the web comment feature, which allows users to leave their own comments to show how they experience during the interaction. This part can continue to improve.

4.The advantages and disadvantages of the project

4.1.Project advantages

·The rich animation effect brings users a good visual experience in the process of interaction. This project realizes many animations based on the css style in the Bootstrap library, and the rich animation effect is an essential part of an excellent website.

- Detailed introduction of the content. The richness of interactive information is also an essential part of the introduction website. The information and content collection of this project is also a key part.

- Clear navigation sequence. Our navigation bar implements the function of precise navigation, which is well consistent with the principle of "Fluid navigation" learned in class. Give users a comfortable interactive experience.

- More rich key choice. In the interactive interface, we provide users with more buttons and page functions, such as clicking on the picture classification tag, mouse floating text introduction, and comments.

4.2.Project shortcomings

- Show the diversity of information. Due to the lack of time, this project did not provide more information of the information needed. For example, some campus news, some school study, work data visualization and so on.

- No real-time information update was completed. Since there is no server in this interactive technology project, the realized page cannot care about the actual time and push the latest introduction content.

- Improvements in the blog forums. Since this interaction technology does not have the support of the corresponding back-end database, there is no retention and record of user browsing and learning.

5.Improvement direction of the project

- More display and introduction information collection: Make more effort in the information display part, we can use the user interaction technology we learned in class, such as data visualization, etc. At the same time, find the corresponding database of the school to get the latest information and data for display.

- The gradual improvement of the back-end function. For example, build the corresponding back-end database to store users' browsing information and comment information, so that the function of blog comment can be realized more perfect. At the same time, the corresponding server can be established, so that the content on the website page can be updated regularly to realize the real-time of the website

information.

·The realization of richer functions. Due to the completion time of the project and the current knowledge and technology limitations, although we have completed many interactive functions on the page, we can also do some more interactive functions to make the functions of the website more comprehensive. Such as search, account establishment, more buttons and so on.

6.Tasks and contributions of each team member

·Lin Juekai(35%):

Web page section 1.2.3.6 Implementation of functions, report writing and front-end library collection.

·Huang Yicheng(22.5%):

The fourth part of the page completed the corresponding part of the information search.

·Liu Zihe(22.5%):

The fifth part of the page completed the corresponding part of the information search.

·Shi Shuaiqian(20%):

Production of defense PPT.