Coursework2 Report

Yifu Lai 40413832

Edinburgh Napier University – Data Analytic (SET09120)

`40413832@napier.ac.uk`
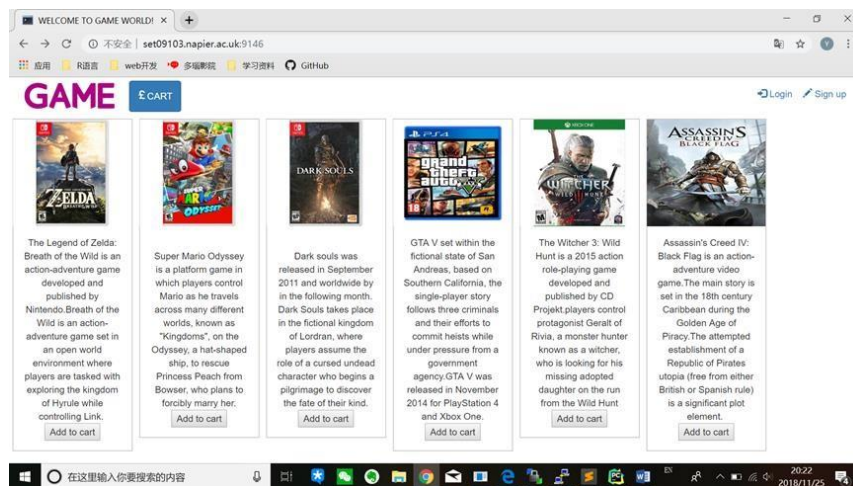
Abstract. In this coursework, I improved my flask function and html page. Used some new functions, such as routing, requests, redirects, responses, custom error code handling, static files, templates. In addition, I also use bootstrap to beautify my html pages, looked like more simply and clearly.

Keywords: New functions, extends, request.

1   Introduction

The features of this web-app include introduction of some video games and sell some video games that designer's favorite. Visitors can sign up through e-mail to become the member of the website, then they can log in. At the main page, customers can log in, log out, view cart.

1.1   Main page

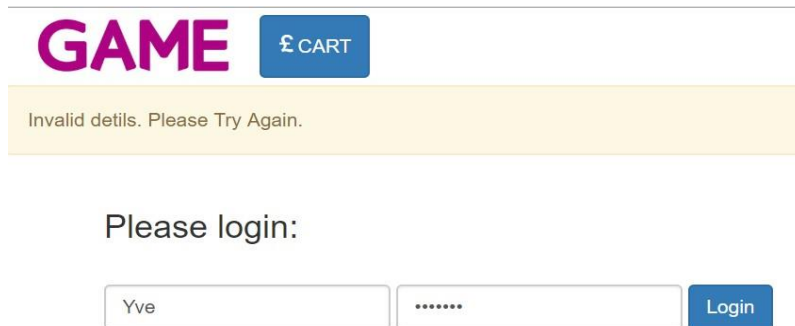<main page1.1>

1.2   Nav-bar

<nav-bar1.2>

At main page, the navigation bar can lead customers to check their cart. Of course, they must log in their account. Therefore, clicking the button 'LOG IN', the page will jump to login page. (This nav bar, I used the extends function to extend from the base.html. This function can save a significant number of times that doing repetitive work)

1.3   Login page

<login page 1.3>

At the login page, I used the request function. In Flask, requests are Python objects that we can access and whose data we can reuse. (SET09103 Advanced Web Technologies note & workbook, W, Simon). In addition, I added flash function to remind user they might be input wrong username or password.
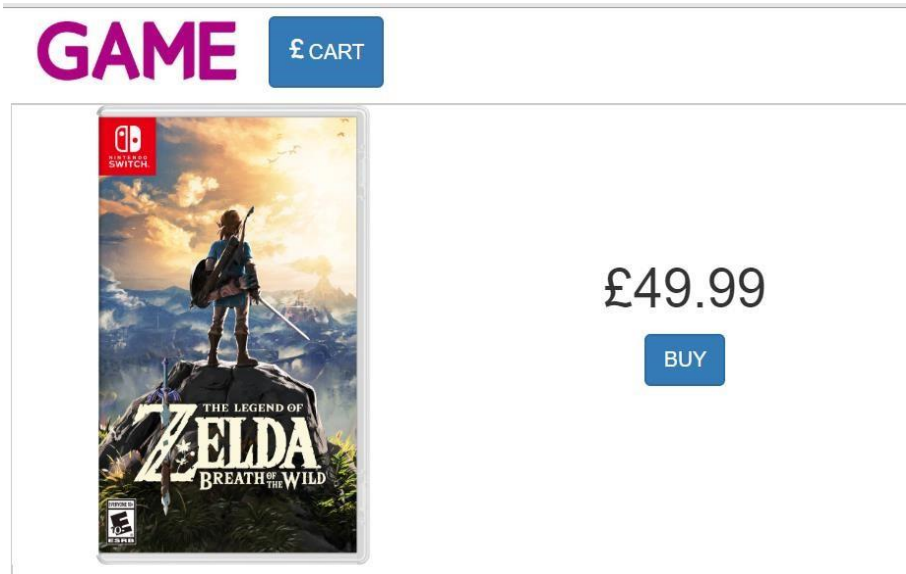

<message flash 1.4>

1.4   Cart page

In the Cart page, I used bootstrap template to modify the button. Correcting the fault that 'BUY' button is too large in the first coursework.

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Miguel Grinberg said, 'because of Bootstrap is Client framework, it does not directly involve the server. All the server needs to do is provide an html response that references the Bootstrap CSS and JavaScript document files, and instantiate the required components in the html, CSS, and JavaScript code. The best place to perform these operations is the template.' Therefore, each section does not affect each other on the same page.
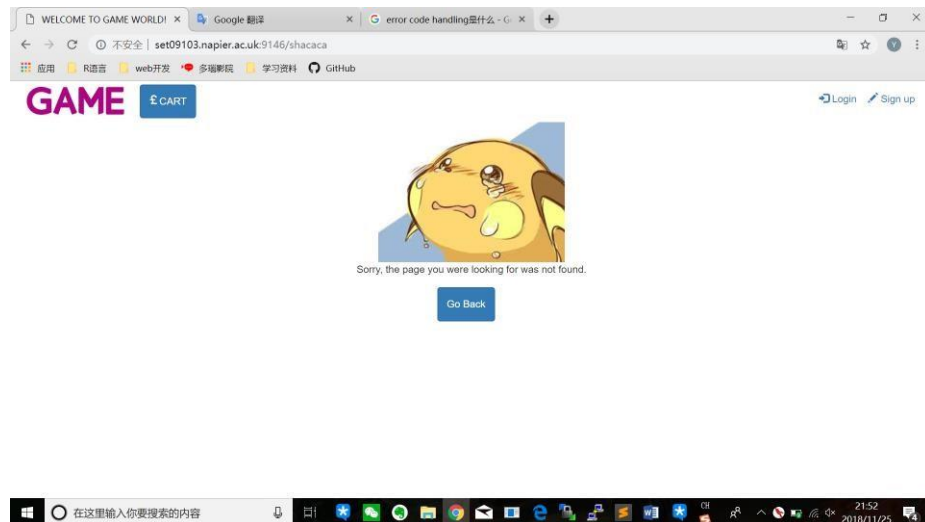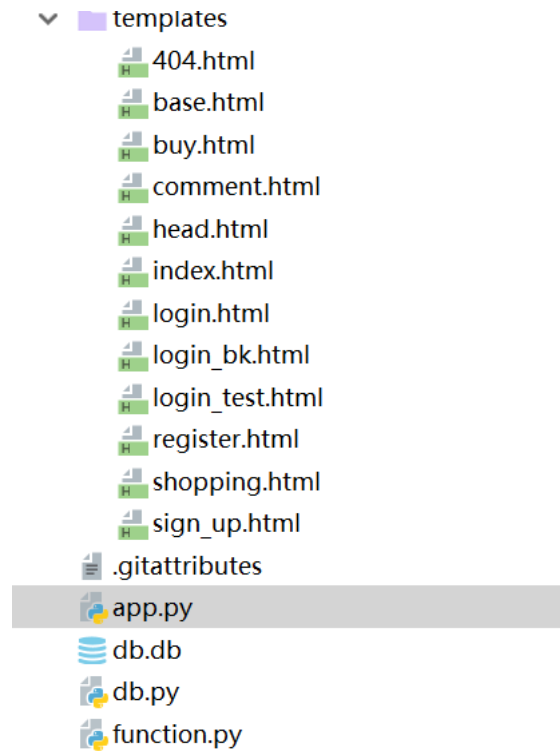

<new cart page 1.5>

1.5   Error handler page

I used custom error code handling function to deal with the problem that the page lost due to input wrong path.

2   Design

```
∨  📁 templates
        📄 404.html
        📄 base.html
        📄 buy.html
        📄 comment.html
        📄 head.html
        📄 index.html
        📄 login.html
        📄 login_bk.html
        📄 login_test.html
        📄 register.html
        📄 shopping.html
        📄 sign_up.html
    📄 .gitattributes
    📄 app.py
    📄 db.db
    📄 db.py
    📄 function.py
```

I used the database to store the users account and their password. So, they can input some details to register their own account. In addition, I used the encryption to protect user's personal details. However, I do not use testing to test my database, it might have risk.

3   Enhancements

In my web-app, I want to add user login feature and I tried to achieve a feature that user can hit button 'add to cart', then the products will be displayed in the cart page.

Add to cart

<Add to cart 3.1>

In my website, costumers only can buy the products, cannot comment how they feel about the products. I think I should design a new feature that people can comment the games that they have played.

4   Critical evaluation

I built a website to popularize the game. People can learn the synopsis of the games that is showed on the page. If they have interest in one of the games, they can buy them and experience a wonderful adventure. However, in this coursework, they cannot really buy the game. Therefore, I think the positive aspect of the web-app is that recommending some great games. On the other hand, I think that it is pity people cannot really buy and play them.

5   Personal Evaluation

For this coursework, I learned how to use flask and template to run the html document and page jump. In addition, I learned how to use database to store user's details and user can input real username and password to login. When I design website, the typesetting of pages always become messy, therefore, I used bootstrap to modify my web page. Moreover, in order to building database, I went to youtube to find tutorial videos of sqlite3. They are helpful. For this coursework, I learned a lot of knowledge about the python and html.

References

1. Miguel Grinberg, Flask Web Development: Developing Web Application with python P23, 2014