

1) <Project Proposal> 2540860J

2) Title: E-commerce website developed based on Django framework

3) Introduction and motivation:

A shopping cart application developed using the Django framework, each company should have a unique style of e-commerce website, so I plan to use the agile development model to make a website of my own, this project will be a good one practice is for my future development. When I am proficient in these technologies, I can customize a website with a distinctive style for the company according to different products, requirement and businesses.

Motivation 1: I like web development. It is really interesting and makes me feel a sense of accomplishment. I can design the style and function I want, just like drawing a picture and making a PPT.

After studying in the second semester of Internet Technology and Software Development at the University of Glasgow, I was full of interest and curiosity in web development. It was the first time I was exposed to the front-end and back-end contact and interaction, and the first time I was exposed to other languages than Java, such as Python and Html. Especially the Django framework, it makes me feel that developing an application can be so fast and clear. When I finished the Django project, it was my happiest and most fulfilling experience in this year of computer learning.

Motivation 2: I think it is a project that every company must have. Some individuals or small workshops should have their own web pages to sell products.

I think in the context of the rapid development of the Internet and e-commerce, most companies will choose to sell their products on large e-commerce sites, such as Amazon or Taobao. Although this method is very convenient and can leave some costs for some small companies, however, it does not allow companies to retain or attract their loyal fans. On Amazon, customers can only see information about products, but they know nothing about the company itself. For example, a small workshop with traditional crafts, their tea cups are very popular on Amazon, but no one knows that the company actually has many better products, such as they also produce high-quality tea. But these will not be displayed on Amazon, so it is necessary to make your own e-commerce website.

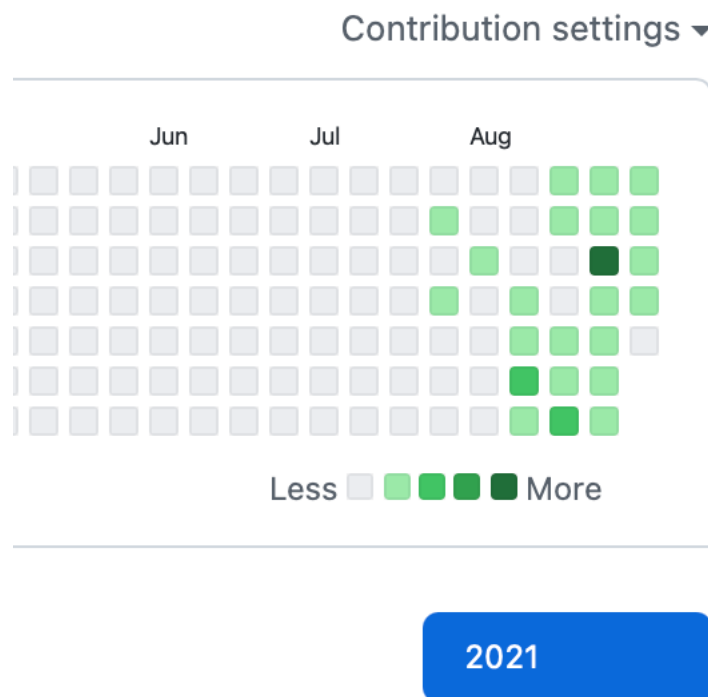
Motivation 3: I want to use the opportunity of this project to learn more new technologies, not just to use the knowledge that the teacher has taught to make the project.

I have only learned some lack of knowledge of python, html, Django and some internet technology through the course, but since the course is over, I have been learning these new knowledge (Appendix 1), I am confident to challenge this task. At the same time, I will also use the agile development model to give priority to the functions I want, add new functions according to the progress of the project, or give up low-priority functions.

I think the graduation project is to challenge myself and take advantage of this opportunity to enhance my technology stack, not just to do some familiar projects.

Learning Python and web is helpful to my future planning. I am going to apply for the second master's degree in financial technology and business analysis. These two majors require computer-

related knowledge, such as Python, algorithms and data structures. This project will increase my competitiveness in my future study or work development.



(Appendix 1)

4) Specification on methodology:

Python
 Html
 CSS
 Django
 Github
 PyCharm

5) Timetable:

Week 1	Read <Tango with Django> to understand the technology needed for the project, and some ideas for e-commerce websites. Conceive and design functions related to e-commerce websites for the project and set priorities and sprint plans for them.
Week 2	According to the teaching process of <Tango with Django>, the most basic model framework, such as web link and pagination, is produced. At the same time collect more information and data from other websites.

Week 3	Starting from the highest priority project, this process may take a long time, because I have not yet mastered the Python and Django framework, so I have to learn new technologies while making it.
Week 4	Continue to try to implement the functions of the e-commerce website, such as user registration and user login. Continue to learn Django and Python.
Week 5	Continue to try to realize the function of e-commerce website and learn Django and Python.
Week 6	In this week, the functions of the website will be improved. According to the completion of the project and the remaining time, we will consider adding some new functions or giving up some low-priority functions.
Week 7	Start learning front-end knowledge, Html and CSS. Design the interface for the web page, such as cover, title, section and image.
Week 8	Continue to learn and make the front-end content of the web page.
Week 9	Test and modify the project, deal with and improve the problems that have occurred before and beautify the web page.
Week 10	To complete the paper
Week 11	To complete the paper
Week 12	To complete the paper

Every day of the week I will learn Python and do algorithm exercises and upload them to Github.