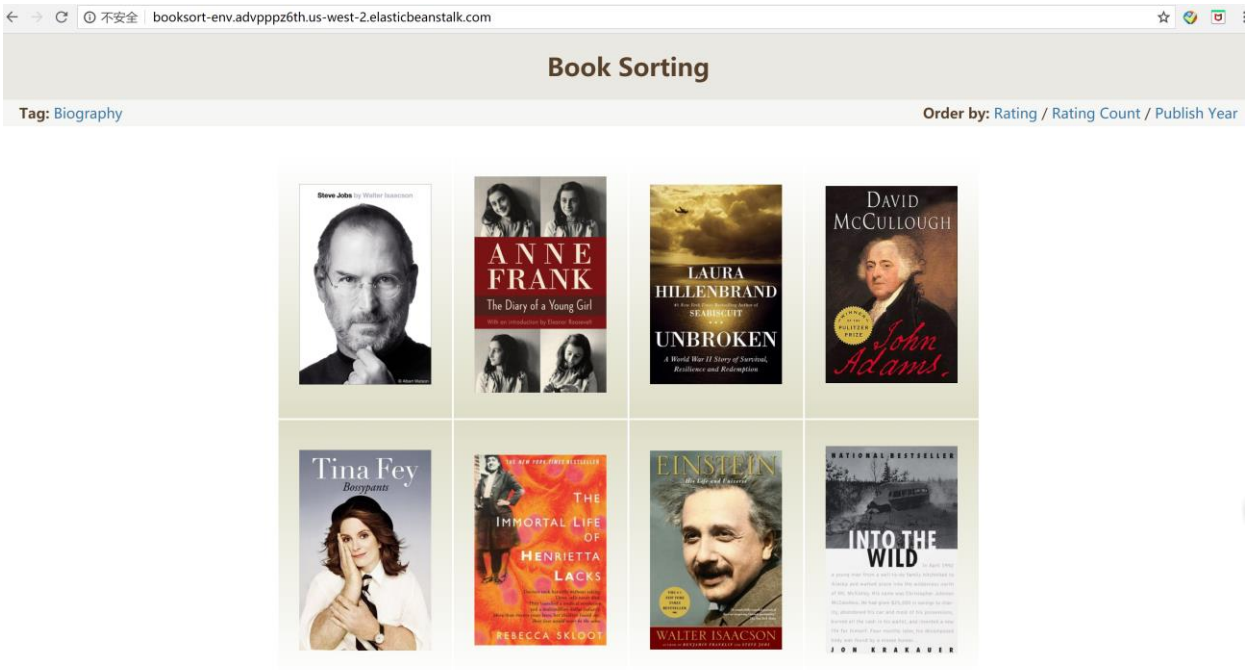
Week 4 Report

In this week,

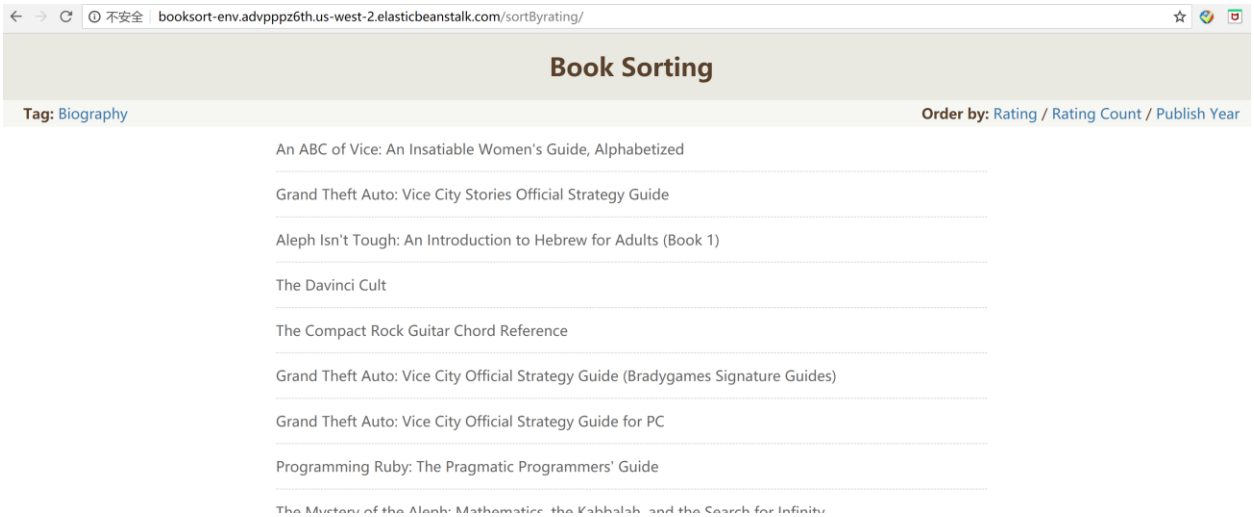
1. I deployed my project to the AWS Elastic Beanstalk in an Amazon EC2 instance. Because I have trouble when I try to deploy it into the university web server, so I choose to use the web server that provided by Amazon Web Services. It costs so much time to be familiar with the deployment and connect with my database.
2. I created my MySQL database in Amazon Relational Database Service (RDS) and connected it with my project.
3. I designed a simply index page of my website and also achieve the sorting according to the Rating of each book.

Now my project can be reached by using **URL**: http://booksort-env-2.kir74pueej.us-east-2.elasticbeanstalk.com/sortByrating/, and also in my student **cs.uml.edu** web page, there is a link to the URL showed above: https://www.cs.uml.edu/~wma/513_f2018.html.

Index page as below: (Note: the cover of books are just to display, there is no specific meaning. Maybe I will change them in the future.)



So far, User can only do Rating sorting by click “Rating” follow the “Order by:” and it showed:



Problems:

1. Fail to deploy my Django project into the university server.

   Solution: I found the AWS provide one-year free trail to have the web services, and I registered one account. And deploy my Django project to that web services, as well as set the relational database. Following are readings:

   https://aws.amazon.com/

   https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EC2_GetStarted.html

   https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/create-deploy-python-django.html

   https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/create-deploy-python-rds.html

   https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_MySQL.html

2. Lack of attributes in the data I’ve used.

   Solution: Collecting other new book data from the ***Goodreads*** *(https://www.goodreads.com/)* in the next week.

   https://en.wikipedia.org/wiki/Web_crawler

   https://www.digitalocean.com/community/tutorials/how-to-crawl-a-web-page-with-scrapy-and-python-3

In the next week, I will:

1. Add more element into my web page, such as the button to load more books and the cover images of books.
2. Collect new books’ data and have a collection of data in my database. Because I found that the data from Kaggle (https://www.kaggle.com/gnanesh/goodreads-book-reviews) does not provide the publish year of books, and there is no “genre” attribute, so I decide not to use the data from Kaggle and I will collect the data by myself.

   All of the data will come from the website *Goodreads* (https://www.goodreads.com/).