Week 3 Report

In this week, I start to learn the basic knowledge of Django, I did things that I listed below:

1. Created a test project to learn and test the code:

2. Using models.py to design my model in which I describe my database layout;

3. Using "migrate" command-line to create the database tables automatically;

4. Right now, I do not need to do some authentication of users who can add, change and delete objects. So, I just looked the administrative interface and not do anything further;

5. Using urls.py to design my URLs. I test some URLs and maps URL paths to Python callback functions (in views.py).

6. Using views.py to retrieve data, load a template that I created and render the template with the retrieved data. The whole thing is that once one of the URL patterns matches, Django calls the given view and the view gets passed a request object.

7. Using a template search path to store some static html file so that views.py can render it and show it on the screen.

So far, I test to show 20 books title as descending order of the rating on my local host. Below is the screenshot on the local host web page and the table in my database:

← → C ⓘ 127.0.0.1:8000/list/

- An ABC of Vice: An Insatiable Women's Guide, Alphabetized
- Grand Theft Auto: Vice City Stories Official Strategy Guide
- Aleph Isn't Tough: An Introduction to Hebrew for Adults (Book 1)
- Ordinary Work, Extraordinary Grace: My Spiritual Journey in Opus Dei
- The Beatles Guitar Chord Songbook: A-I (Guitar Chord Songbooks)
- Grand Theft Auto: Vice City Official Strategy Guide (Bradygames Signature Guides)
- Grand Theft Auto: Vice City Official Strategy Guide for PC
- Programming Ruby: The Pragmatic Programmers' Guide
- The Mystery of the Aleph: Mathematics, the Kabbalah, and the Search for Infinity
- Personal Finance For Dummie$ For Canadians
- The Davinci Cult
- The Financial Wisdom of Ebenezer Scrooge: Transforming Your Relationship with Money
- The Guitar Three-Chord Songbook: Play 50 Rock Hits with Only 3 Easy Chords
- The Advanced Guitar Case Chord Book: Compact Reference Library
- Jazz Guitar Chord Melodies
- Corporate Vices: What's Gone Wrong with Business?
- The Faking of the Vice-President: A Guide to Becoming a Superfluous Leader
- On Moral Character: A Practical Guide to Aristotle's Virtues and Vices
- Decadent health: A survival guide for elegant people with vice
- The Compact Rock Guitar Chord Reference

In the database, I sort the book in descending order of the rating, it shows the same order of book title as in the web page.

bookID	title	author	rating	ratingsCount	reviewsCount
612	An ABC of Vice: An Insatiable Women's Guide, Alphabetized	Nicole Holl	4.6	10	2
610	Grand Theft Auto: Vice City Stories Official Strategy Guide	Brady Gam	4.43	14	0
5785	Aleph Isn't Tough: An Introduction to Hebrew for Adults (Bool	Linda Motz	4.31	74	4
6376	Ordinary Work, Extraordinary Grace: My Spiritual Journey in C	Scott Hahn	4.28	318	23
740	The Beatles Guitar Chord Songbook: A-I (Guitar Chord Songb	The Beatles	4.25	8	0
608	Grand Theft Auto: Vice City Official Strategy Guide (Bradygam	Tim Bogen	4.1	42	1
609	Grand Theft Auto: Vice City Official Strategy Guide for PC	Tim Bogen	4.1	42	1
515	Programming Ruby: The Pragmatic Programmers' Guide	Dave Thom	4.06	1713	73
5786	The Mystery of the Aleph: Mathematics, the Kabbalah, and the	Amir D. Ac	3.85	585	44
3608	Personal Finance For Dummie$ For Canadians	Eric Tyson	3.76	62	8
6377	The Davinci Cult	Peter C. Sp	3.75	4	0
5311	The Financial Wisdom of Ebenezer Scrooge: Transforming You	Ted Klontz	3.53	60	10
743	The Guitar Three-Chord Songbook: Play 50 Rock Hits with Onl	Songbook	3.5	8	0
744	The Advanced Guitar Case Chord Book: Compact Reference L	Askold Buk	3.33	3	0
742	Jazz Guitar Chord Melodies	Towey Dan	3	1	0
607	Corporate Vices: What's Gone Wrong with Business?	Charles Co	2.67	3	0
611	The Faking of the Vice-President: A Guide to Becoming a Supe	Rich Mintze	0	0	0
613	On Moral Character: A Practical Guide to Aristotle's Virtues an	Jody Palmc	0	0	0
614	Decadent health: A survival guide for elegant people with vice	Mark David	0	0	0
741	The Compact Rock Guitar Chord Reference	Len Vogler	0	0	0

Problems:

1. Too many data in Kaggle: https://www.kaggle.com/gnanesh/goodreads-book-reviews, it is hard for me to use them to test whether it can work.

   Solution: I just copy and paste 20 books into the table in the database.

2. Fail to migrate my model and create the relational table.

   Solution: I read following documents about how to do migration in Django project:

   https://docs.djangoproject.com/en/2.1/topics/migrations/

3. Cannot go to the correct page I set.

   Solution: I read following documents to set the right path and link to the function in views.py:

   https://docs.djangoproject.com/en/2.1/topics/http/urls/

   https://docs.djangoproject.com/en/2.1/topics/http/views/

In the next week:

1. I will put the test project on the university's web server and see how it works.
2. Make a formal web page for the book sorting.