

Library Inventory Project

Made by Hafsa Hussain and Vincent PICOT

Installation guide:

- Be sure to have **MySQL 5.0** or higher installed and running on your platform
- Create a database for the project in MySQL, if you don't have another user than root, please consider creating a new user with access to only this project database
- Copy the **.env.example** file and rename it **.env**, then fill the file - **DB_NAME** is for the database name you just created, **DB_USER** and **DB_PASSWORD** is for the user that is going to access the database
- Install Python 3.6 or higher
- Install python package **Virtualenv** <https://virtualenv.pypa.io/en/stable/>
- Create a new virtualenv and activate it (Follow the documentation linked above) **Everything bellow need to be done in the virtualenv**
- Install **Django 2.1** or higher
<https://docs.djangoproject.com/en/2.2/topics/install/> be sure to follow all the steps
- If you didn't through the Django installation guide, install **mysqlclient**
<https://pypi.org/project/mysqlclient/>
- Install **django-bootstrap-customizer** 0.1.4 or higher
<https://johnfraney.github.io/django-bootstrap-customizer/>
- Be sure to be in the root folder of the project before doing the following commands
- run **python3 manage.py migrate**
- run **python3 manage.py createsuperuser** You'll need this user to connect to the admin site, be sure to know the access of this user
- run **python3 manage.py runserver**
- Go to: <http://127.0.0.1:8000/admin/> for the admin site
- Before going to the user site, go to the admin site and create a bootstrap theme and link it to the user site url (Examples in the django-bootstrap-customizer documentation)
- Check the id in the table **django-site** of the user site you linked above. In **settings.py** change **SITE_ID** with this id.
- Go to: <http://127.0.0.1:8000/> for the user site
- You're all set, have fun!
- If you are installing on a server instead of local, go to the documentation of **Django**, there is a tutorial on how to deploy a django project.

User manual:

This project is separated into two parts, the admin site and the user site. We will cover extensively the first one, as its where most of the interaction happens, and then describe briefly the user site.

Admin site:

The admin site is a site that only the Bookstore/Library staff can use.

The role of this site is to organize books (and everything that revolves around it), the users that can access the admin site (And what kind of content they have access to), and finally, the colors of the user site (Primary color, secondary color, warning color, ...).

Organize books:

When you login into the admin site, you can see a subsection called **Manage books**.

WSU Bookstore Administration

Site administration

| AUTHENTICATION AND AUTHORIZATION | |
|----------------------------------|--------------|
| Groups | + Add Change |
| Users | + Add Change |

| BOOTSTRAP_CUSTOMIZER | |
|-----------------------|--------------|
| Bootstrap themes | + Add Change |
| Site Bootstrap themes | + Add Change |

| MANAGE BOOKS | |
|--------------|--------------|
| Authors | + Add Change |
| Books | + Add Change |
| Genres | + Add Change |
| Languages | View |
| Publishers | + Add Change |
| Transactions | + Add View |

| SITES | |
|-------|--------------|
| Sites | + Add Change |

Recent actions

My actions

- Eragon Book
- j Book
- g Book
- s Book
- s Book
- k Book
- s Book
- s Book
- k Book
- s Book

In this subsection, you can see everything that revolves around a book. If you are the admin user, or an all-access staff, you can add/edit/delete/view everything except for Languages – that you can view only – and transactions – that you can't edit.

If you click on **Books** in this subsection, you'll arrive on a similar page:

WSU Bookstore Administration WELCOME: ADMIN VIEW SITE / CHANGE PASSWORD / LOG OUT

Home » Manage books » Books

Select book to change ADD BOOK +

q Search

Action: Go 0 of 3 selected

| <input type="checkbox"/> TITLE | AUTHOR(S) | PUBLISHER | RELEASE DATE | LANGUAGE |
|--|---------------------|-----------|--------------|----------|
| <input type="checkbox"/> Eldest | Christopher Paolini | LaFonte | Jan. 1, 2007 | English |
| <input type="checkbox"/> Eragon | Christopher Paolini | LaFonte | Jan. 1, 2005 | English |
| <input type="checkbox"/> Harry Potter and the Philosopher's stone | J.K. Rowling | LaFonte | Jan. 1, 1995 | English |

3 books

You can click on the title of one book to access its **details/edit** page.

Home » Manage books » Books » Eldest HISTORY

Change book

General Information

Isbn10: 0000000002

Isbn13: -

Title: Eldest

Description: Eragon starts his route to Elesmera

Authors: Christopher Paolini

Genre: Fantasy

Release date: Jan. 1, 2007
Please use the following format: YYYY-MM-DD

Publisher: LaFonte

Language: English

Prices

Price new: 12

Price used:

You'll see that you are not able to edit every attribute (This is perfectly normal, a book's title isn't supposed to change, neither its ISBN, and so on). You can edit whatever is editable, and then save the book.

You can also create a book by clicking on the **Add book** button. You'll arrive on the same page layout as the **Edit** page, except that every field will be empty. (Notice that some attributes names are in bold, and other in normal font. Bold name means that the field is mandatory, and you won't be able to save a book without this field.)

At the end of the book **edit/add** page, you have a **Transactions** subsection.

TRANSACTIONS

| TYPE | BOOK STATE | QUANTITY | DATE | DELETED? |
|--|----------------------|----------------------|----------------------------------|--------------------------|
| Eldest, Sell | New | 10 | March 22, 2019, 1:49 p.m. | <input type="checkbox"/> |
| Sell | | | | |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | Date: <input type="text"/> Today | |
| | | | Time: <input type="text"/> Now | |
| <small>Note: You are 1 hour ahead of server time.</small> | | | | |
| + Add another Transaction | | | | |
| <div>DeleteSave and add anotherSave and continue editingSAVE</div> | | | | |

In this subsection, you can add several transactions for the book in question (Shipment of books, sell books, ...). It will give you a warning if you try to sell a book that is not in stock, or that not enough books are available.

You can also add transaction in the **Transaction** entry in the **Manage books** subsection. However, it's a bit more complex as you need to manually select the book in which you want to assign the transaction when adding a new one.

To delete a book, you can select the book on the book listing, and then in the dropdown on the top of the list named **Action** select **Delete selected books**, otherwise, you can also go to the edit page of a book and click delete at the bottom of the page.

All the other subsection of **Manage books** – Authors, genres, publishers, ... - works the same way as described for books when trying to add/edit/delete/view them.

Manage staff members and access rights:

You can manage staff that can access the admin site, and also their rights in the **AUTHENTICATION AND AUTHORIZATION** subsection of the admin site.

WSU Bookstore Administration

Site administration

AUTHENTICATION AND AUTHORIZATION

| | | |
|--------|-------|--------|
| Groups | + Add | Change |
| Users | + Add | Change |

BOOTSTRAP_CUSTOMIZER

| | | |
|-----------------------|-------|--------|
| Bootstrap themes | + Add | Change |
| Site Bootstrap themes | + Add | Change |

MANAGE BOOKS

| | | |
|--------------|-------|--------|
| Authors | + Add | Change |
| Books | + Add | Change |
| Genres | + Add | Change |
| Languages | | View |
| Publishers | + Add | Change |
| Transactions | + Add | View |

SITES

| | | |
|-------|-------|--------|
| Sites | + Add | Change |
|-------|-------|--------|

Recent actions

My actions

- ✏ Eragon Book
- ✖ j Book
- ✖ g Book
- ✖ s Book
- ✖ s Book
- ✖ k Book
- ✖ s Book
- + s Book
- + k Book
- + s Book

The **Users** entry allows you to create new staff members (Username, password) and to assign them to a group.

The **Groups** entry allows you to create a group, and all the members of this group will have the accesses defined in this group. (For example, can view everything, but cannot edit/add/delete anything).

When you attempt to create a user with a too common password (e.g azertyuiop), you'll get an error.

WSU Bookstore Administration

Home › Authentication and Authorization › Users › Add user

Add user

First, enter a username and password. Then, you'll be able to edit more user options.

Please correct the error below.

Username:

Jean

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password:

Your password can't be too similar to your other personal information.
Your password must contain at least 8 characters.
Your password can't be a commonly used password.
Your password can't be entirely numeric.

This password is too common.

Password confirmation:

Enter the same password as before, for verification.

Once you created the user (username and password), you'll arrive on a more detailed page asking for a lot more information, like assigning the user to groups, its firstname, lastname, ...

The user "Jean" was added successfully. You may edit it again below.

Change user

HISTORY

Username:

Jean

Required: 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password:

algorithm: pbkdf2_sha256 iterations: 120000 salt: K9bm9***** hash: 7FxVR7*****

Raw passwords are not stored, so there is no way to see this user's password, but you can change the password using [this form](#).

Personal info

First name:

Jean

Last name:

Dupont

Email address:

jean.dupont@wayne.edu

Permissions

☒ Active

Designates whether this user should be treated as active. Unselect this instead of deleting accounts.

☒ Staff status

Designates whether the user can log into this admin site.

☐ Superuser status

Designates that this user has all permissions without explicitly assigning them.

Groups:

Available groups

Filter

Chosen groups

ViewOnlyGroupBookSection

In this, we can see that I assigned the user to the group **ViewOnlyGroupBookSection** described just below.

You can create a book this way:

Add group

Name:

ViewOnlyGroupBookSection

Permissions:

Available permissions

book

book | author | Can add author
book | author | Can change author
book | author | Can delete author
book | book | Can add book
book | book | Can change book
book | book | Can delete book
book | genre | Can add genre
book | genre | Can change genre
book | genre | Can delete genre
book | language | Can add language
book | language | Can change language

Choose all

Chosen permissions

book | book | Can view book
book | author | Can view author
book | genre | Can view genre
book | publisher | Can view publisher
book | language | Can view language
book | transaction | Can view transaction

Remove all

SAVE

Assigning a name and permissions to the group. In this example, I give to this group members only the permission to view information beneath **Manage books**. It means they won't be able to add/edit/delete anything, neither view the website templates or the staff users.

So if I now login on the admin site with *Jean*, I get this interface.

WSU Bookstore Administration

Site administration

MANAGE BOOKS

| | |
|--------------|------|
| Authors | View |
| Books | View |
| Genres | View |
| Languages | View |
| Publishers | View |
| Transactions | View |

Recent actions

My actions

None available

As we can see, *Jean* cannot edit/add/delete anything, neither can he view something else than the **Manage books** subsection.

Change the user site color:

If you go under **Bootstrap themes**, you can add new themes, that will correspond to your user site colors (Once you've linked the template to the URL in **Site bootstrap themes**). In the theme, you'll see several color inputs. You can edit all of them (The two main ones being **Primary** and **Secondary**). If you change those colors, save the theme (The saving can take some time), and go to the user site, you'll see the color changed to what you've set.

User site:

There are three main pages on the user site, the home page, the catalog page with book detail page, and the contact us page.

On the home page, you just have an introduction text, not much interaction possible instead going to another page through the navbar.

On the catalog page, you have the listing of all the books available in the bookstore, it looks like this:

Wayne State University BookstoreHomeCatalogContact UsAbout

Click on the title of the book for more details!

Search...

| Title | Author | Genre |
|--|---------------------|---------|
| Harry Potter and the Philosopher's stone | J.K. Rowling | Fantasy |
| Eragon | Christopher Paolini | Fantasy |
| Eldest | Christopher Paolini | Fantasy |

WSU Bookstore
82 West Warren Street
Detroit, MI 48202
+1 (888)-555-5555

Email us for questions and concerns.
[Wayne State Bookstore](#)
Copyright © 2019 Wayne State University

If you click on the title of a book, you go into the detail page.

Wayne State University BookstoreHomeCatalogContact UsAbout

Book Details

Title: Eragon

Author(s): Christopher Paolini

ISBN10: 0000000001

Description: Eragon discover a strange stone in the forest. This stone is actually a dragon egg!

Genre: Fantasy

Language: English

Release Date: Jan. 1, 2005

Publisher: LaFonte

New Price: \$ 12

Used Price: \$None

e-Book Price: \$ None

Rent New: \$None

Rent Used: \$None

Rent e-Book: \$None

WSU Bookstore
82 West Warren Street
Detroit, MI 48202
+1 (888)-555-5555

Email us for questions and concerns.
[Wayne State Bookstore](#)
Copyright © 2019 Wayne State University

The last important page of the user site is the contact us page. It a basic form to contact the bookstore.

[Wayne State University Bookstore](#) [Home](#) [Catalog](#) [Contact Us](#) [About](#)

Questions? Concerns? Feel free to reach out!

Contact Form

*First Name:

*Last Name:

*E-mail:

*Leave a comment or concern:

WSU Bookstore
82 West Warren Street
Detroit, MI 48202
+1 (888)-555-5555

Email us for questions and concerns.
[Wayne State Bookstore](#)
Copyright © 2019 Wayne State University

Pre-project Team Review:

Team Name: LibraryInventory

| | <u>Names:</u> | <u>Access IDs:</u> |
|----|---------------------------|---|
| 1) | Hafsa Hussain | gh7070 |
| 2) | Haris Rovcanin | fs7356 Update: Left the group |
| 3) | Vincent PICOT | gr9185 |

Github accounts:

Vincent-picot

Hafsa-hussain

What is one goal you want to accomplish with this project?

One goal we wanted to accomplish with this project was to discover how to create a website in Python along with interacting with a database through Python.

List the names of your team members that you have met and spoke personally.

Since we're just two in the groups, we met each other several times.

What is one goal your team want to accomplish with this project?

Same answer as the first question.

Do you and your teammates have decided a project?

Yes.

If you have decided on a project, describe the project here with your own words

A CRUD application in the form of a Website. This application would simulate a university bookstore.

URL of GitLab or Github project. The repository should contain the team contract agreement on a folder named "management"

<https://github.com/vincent-picot/LibraryInventory>

Updated project proposal:

Team Name : LibraryInventory

| | <u>Names:</u> | <u>Access IDs:</u> |
|----|---------------------------|---|
| 1) | Hafsa Hussain | gh7070 |
| 2) | Haris Rovcanin | fs7356 Update: Left the group |
| 3) | Vincent PICOT | gr9185 |

Project Proposal Form :

1. Describe your project in one paragraph.
We want to create a web application to keep track of a library's inventory (The university bookstore for example).
2. Did you include a prototype presentation file into your 'Design' folder in your project repository?
No, we did not as we don't know yet how our application will look like or be organized.
3. What type of project are you doing (CRUD – Game – Data science – etc)?
Our application will be a CRUD project (Add, delete, edit, access a book).
Update: We can add/edit/delete/access books, but also everything that revolves around it (Staff user, authors, publisher, book transaction, ...)
4. What is the URL of your repository?
<https://github.com/vincent-picot/LibraryInventory>
5. Did you include your instructor and TA in your repository?
Yes.
6. Did you include the following files in a folder named 'Management' in your project repository?
 - Team contract
 - Planning document
 - Gantt Chart (basic and advanced features clearly annotated) (**Update:** We gave up the Gantt Chart as we were only two, and meeting each other often was better from our point of view)
7. Did you add your tasks to your project management tool? Which tool are you using? E.g. Project in Github:
Update: Like with the Gantt Chart above, we didn't really use any management tool as it was easier for us to just meet.
8. How familiar are your team members with OOP and UML diagrams?

Hafsa and Haris are familiar with the concept of OOP but never really went into it.

Vincent knows both OOP concept and UML diagrams. He worked a lot with OOP.

Update: After this project, Hasfa knows better how OOP worked as she had to use it at several places.

Updated project outline:

- 1) Vincent Picot gr9185
Hafsa Hussain gh7070
- 2)
 - We all found multiple open source projects related to the aspect of a library operating system but decided we wanted to implement our own project from scratch.
 - Yes, we tried to use the Django framework and decided to use it. Below are screenshots of the tutorial projects that we followed; the full code is on the GitHub repository under the TestDjango folder.

Administration page listing the questions.

Select question to change

[ADD QUESTION](#) +

Action: 0 of 3 selected

| <input type="checkbox"/> | QUESTION TEXT | DATE PUBLISHED | PUBLISHED RECENTLY? |
|--------------------------|---|---------------------------|-------------------------------------|
| <input type="checkbox"/> | Moo or Bar ? | March 3, 2019, 4:05 p.m. | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | Pokemon Let's Go Eevee or Pikachu ? | March 1, 2019, 11:19 p.m. | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | What's up? | March 1, 2019, 11:01 p.m. | <input checked="" type="checkbox"/> |

3 questions

FILTER

By date published

[Any date](#)

[Today](#)

[Past 7 days](#)

[This month](#)

[This year](#)

Administration page to add a new question and choices

Add question

Question text:

Date information

Date published: Date: Today 
Time: Now 
Note: You are 1 hour ahead of server time.

CHOICES

| CHOICE TEXT | DELETE? |
|----------------------|---------|
| <input type="text"/> | |
| <input type="text"/> | |
| <input type="text"/> | |

+ Add another Choice

Save and add another Save and continue editing SAVE

- [Moo or Bar ?](#)
- [Pokemon Let's Go Eevee or Pikachu ?](#)
- [What's up?](#)

index.html page

vote.html



page

Pokemon Let's Go Eevee or Pikachu ?

- ☐ Eevee
- ☐ Pikachu

Vote

results.html page

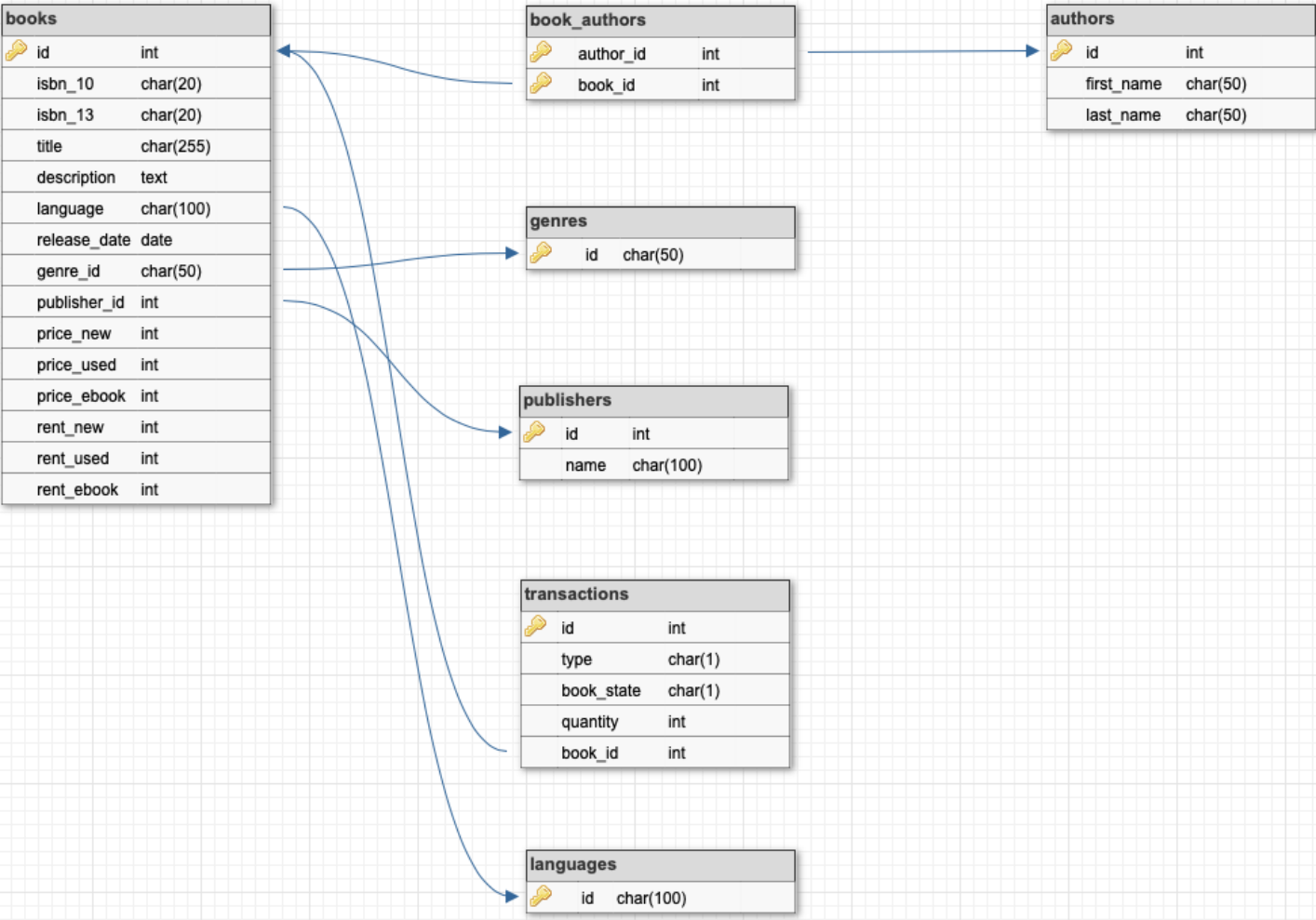
Pokemon Let's Go Eevee or Pikachu ?

- Eevee -- 5 votes
- Pikachu -- 4 votes

[Vote again?](#)

- No, we did not get stuck while trying demos.
- Yes, we have started to implement the front(Hafsa) and back end(Vincent) separately.
The process was first to define a database schema as we are doing a CRUD application. For that we made some reflexing on what our application should be able to do. We ended up with this schema:

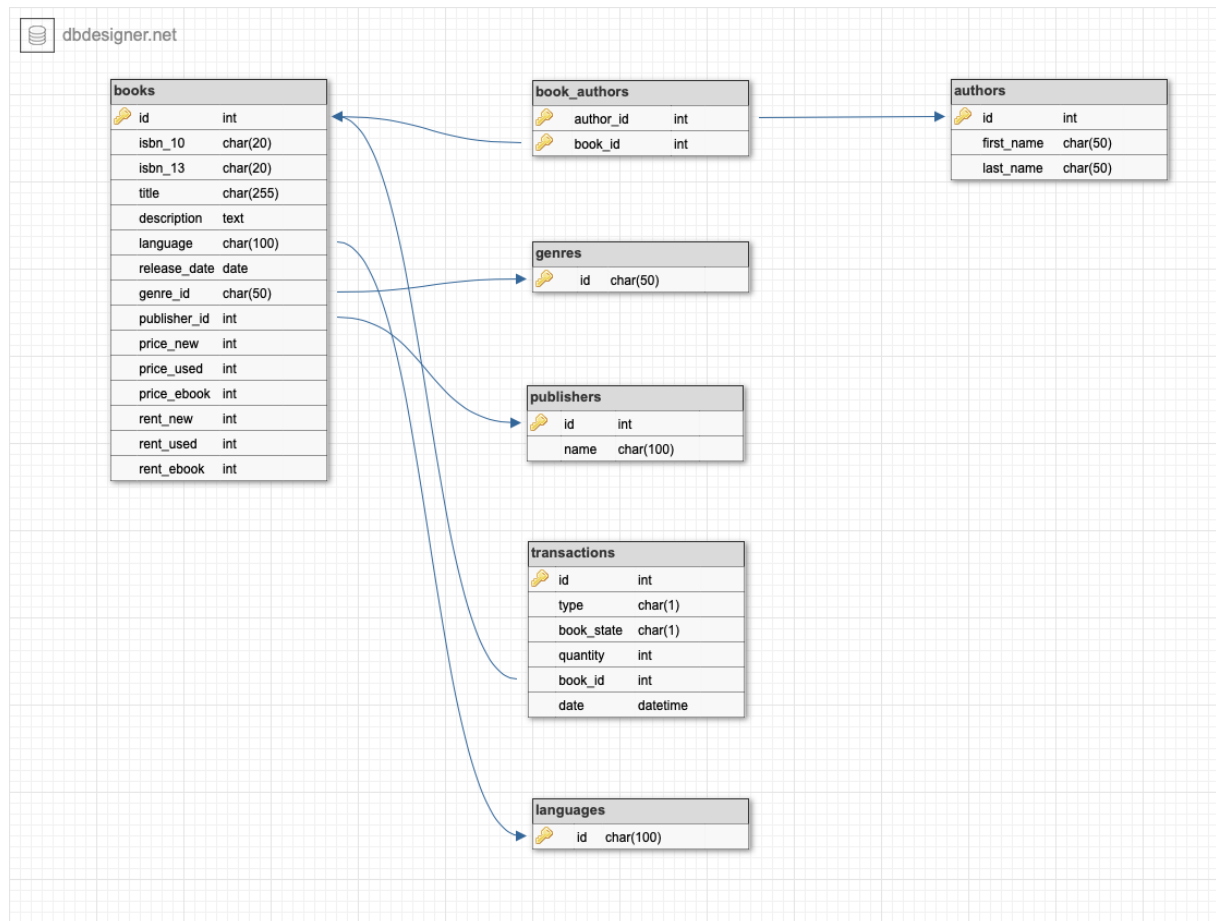
Update: This test project is still in the repository and submitted in the code ZIP file. It helped us a lot when developing our actual project. That is because this example project covers a lot of the different aspects of Django.



Vincent then created the project structure that Django need and recommend and started to implement this database model into Python Class to use with the Django framework.

In the meantime, Hafsa started to work on the html and css for the index page of our project and linking this html file with the Python code and Django to create the user interface.

Update: The database structure changed a little bit, especially in transaction where we added the datetime of the transaction, below is a screenshot of the current database structure.



Here are some screenshots of what we did already:

Login page of the administration site

Library Inventory Administration

Username:

Password:

Log in

List of the book page in the administration site

Library Inventory Administration

WELCOME, **ADMIN** [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Home » Book » Books

Select book to change

ADD BOOK +

Q

Search

Action:

Go

 0 of 3 selected

| <input type="checkbox"/> | TITLE | AUTHOR(S) | PUBLISHER | RELEASE DATE | LANGUAGE |
|--------------------------|--|---------------------|-----------|--------------|----------|
| <input type="checkbox"/> | Eldest | Christopher Paolini | LaFonte | Jan. 1, 2007 | English |
| <input type="checkbox"/> | Eragon | Christopher Paolini | LaFonte | Jan. 1, 2005 | English |
| <input type="checkbox"/> | Harry Potter and the Philosopher's stone | J.K. Rowling | LaFonte | Jan. 1, 1995 | English |

3 books

Page to add a new book in the administration site

Add book

General Information

Isbn10:

Isbn13:

Title:

Description:

Authors:

+

Genre:

+

+

×

Release date:

Today I

Please use the following format: YYYY-MM-DD

Note: You are 1 hour ahead of server time.

Publisher:

+

+

×

Language:

+

+

×



Prices

Price new:

Price used:

Page to add a new book transaction in the administration site

Add transaction

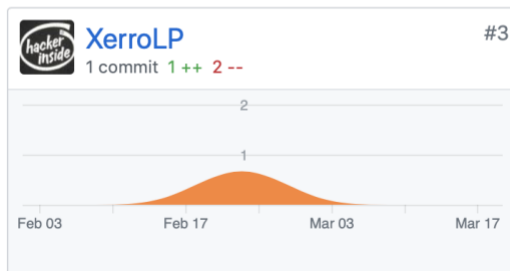
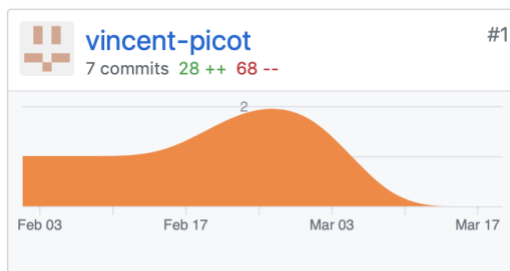
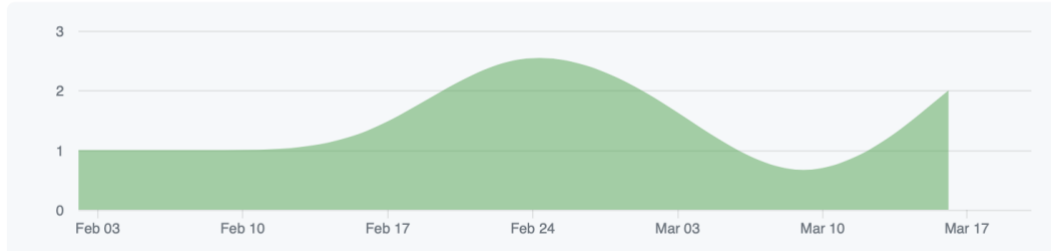
| | |
|---|--|
| Type: | New Shipment |
| Book state: | Used |
| Quantity: | 10 |
| Quantity must be greater than zero | |
| Book: | Harry Potter and the Philosopher's st...   |
| <div>Harry Potter and the Philosopher's stone</div> <div>Eragon</div> <div>Eldest</div> | |
| <div>Save and add another</div> <div>Save and continue editing</div> <div>SAVE</div> | |

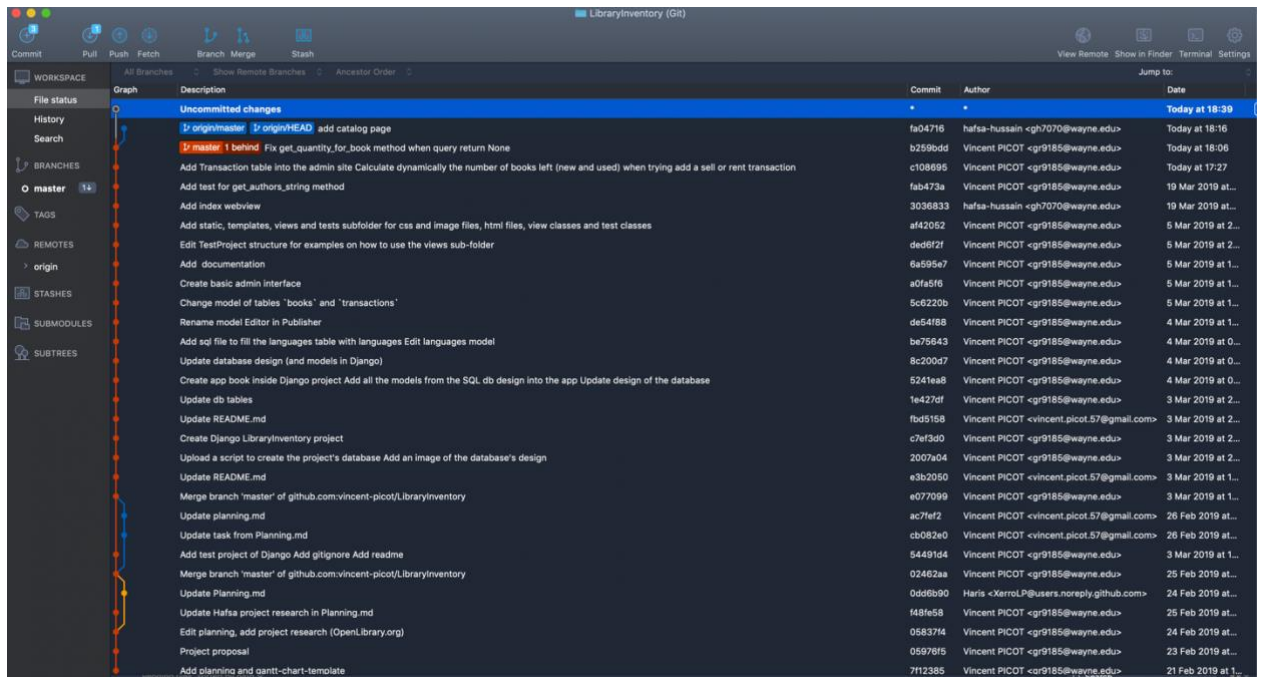
3) Commit screenshot: (Has not been updated for some reason)

Feb 3, 2019 – Mar 21, 2019

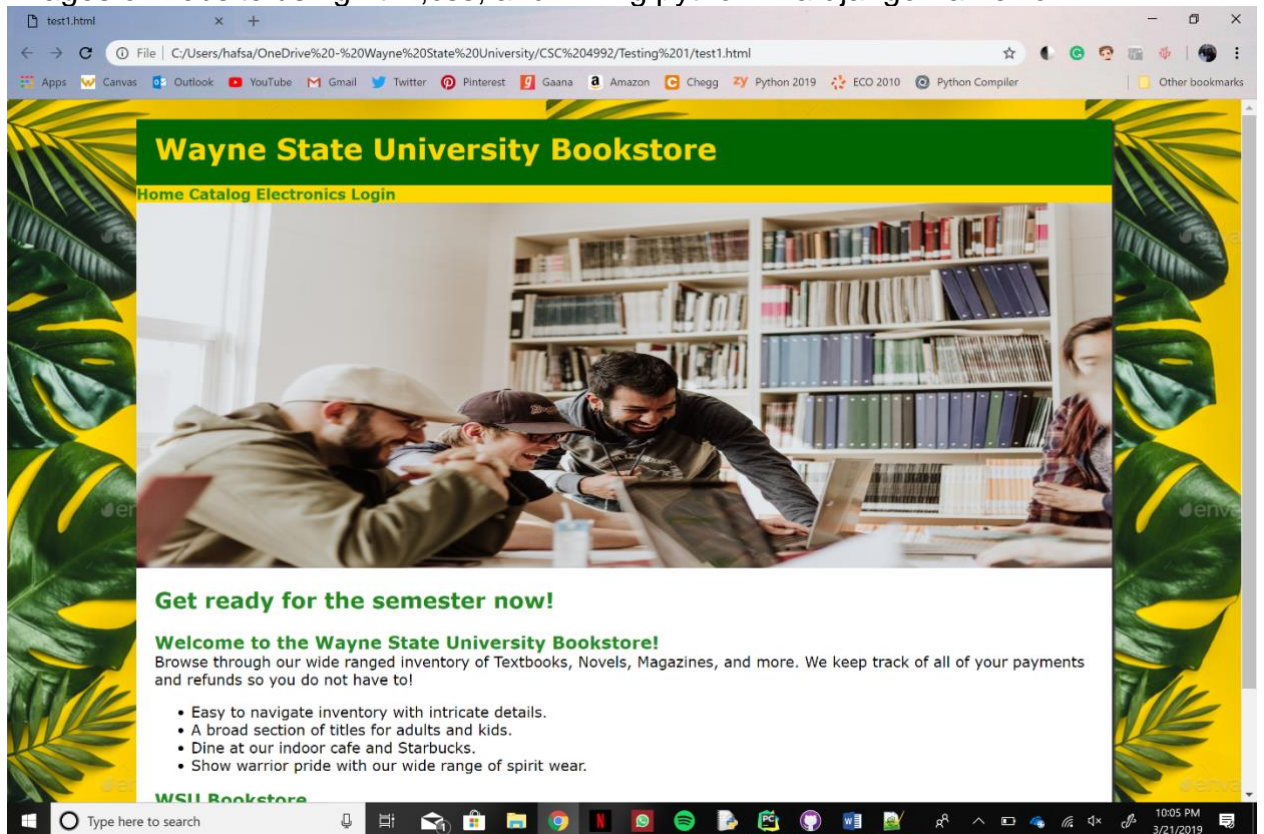
Contributions: **Commits** ▾

Contributions to master, excluding merge commits





Images of website using html,css, and linking python in a django framework.



LibraryInventory [C:\Users\hafa\OneDrive - Wayne State University\Documents\GitHub\LibraryInventory\LibraryInventory] - ...book\templates\book\index.html [LibraryInventory] - PyCharm

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help

LibraryInventory | book | templates | book | index.html | LibraryInventory | viewIndex.py | LibraryInventory\urls.py | book\urls.py | viewCatalog.py | catalog.html | books.py |

Project | Project | languages.py | publishers.py | transactions.py | static | book | images | gitkeep | index.css | README.md | templates | book | gitkeep | catalog.html | index.html | README.md | tests | _init_.py | views | _init_.py | viewCatalog.py | viewIndex.py | _init_.py | admin.py | app.py | urls.py | LibraryInventory | _init_.py | settings.py | urls.py | wsgi.py | venv | library root | manage.py | External Libraries | Scratches and Consoles |

Run: LibraryInventory x

4 Run | 5 TODO | 6 Version Control | Database Changes | Terminal | Python Console |

Cannot resolve file 'test1.html' | 12:24 CRLF UTF-8 4 spaces Git: master 6:02 PM 3/21/2019
```

index.html

```
1 <html>
2 <link rel="stylesheet" href="index.css">
3 <div id="wrapper">
4 <h1>Wayne State University Bookstore</h1>
5
6 <body>
7 <nav>
8 <a href="index.html">Home </a>
9 <a href="catalog">Catalog </a>
10 <a href="tech.html">Electronics </a>
11 <a href="login.html">Login </a>
12 </nav>
13
14 <div id="homehero">
15 </div>
16 <main>
17 <h2>Get ready for the semester now!</h2>
18 <p><span class="book">Welcome to the Wayne State University Bookstore!</span> Browse through our wide ranged inven
19
20 <ul>
21 <li>Easy to navigate inventory with intricate details.</li>
22 <li>A broad section of titles for adults and kids.</li>
23 <li>Dine at our indoor cafe and Starbucks.</li>
24 <li>Show warrior pride with our wide range of spirit wear.</li>
25 </ul>
26
27 <div>
28 <p>
29 <span class="book">WSU Bookstore</span><br>
30 82 West Warren Street <br>
31 Detroit, MI 48202 <br>
32 888-555-5555<br>
33 </p>
34 </div>
35 </main>
36 <footer>
37 <small>Email us for questions and concerns.</small><br>
38 <small><i>Copyright © 2019 Wayne State University</i></small>
39 <br>
40 <a href="mailto:wsubooks@wayne.edu">Wayne State Bookstore</a>
41 </footer>
42 </body>
43 </html>
```

LibraryInventory [C:\Users\hafa\OneDrive - Wayne State University\Documents\GitHub\LibraryInventory\LibraryInventory] - ...book\templates\book\index.html [LibraryInventory] - PyCharm

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help

LibraryInventory | book | templates | book | index.html | LibraryInventory | viewIndex.py | LibraryInventory\urls.py | book\urls.py | viewCatalog.py | catalog.html | books.py | LibraryInventory@localhost [console] x | _init_.py | index.css x |

Project | Project | languages.py | publishers.py | transactions.py | static | book | images | gitkeep | index.css | README.md | templates | book | gitkeep | catalog.html | index.html | README.md | tests | _init_.py | views | _init_.py | viewCatalog.py | viewIndex.py | _init_.py | admin.py | app.py | urls.py | LibraryInventory | _init_.py | settings.py | urls.py | wsgi.py | venv | library root | manage.py | External Libraries | Scratches and Consoles |

Run: LibraryInventory x

4 Run | 5 TODO | 6 Version Control | Database Changes | Terminal | Python Console |

27:6 CRLF UTF-8 4 spaces Git: master 9:57 PM 3/21/2019
```

index.html

```
1 <html>
2 <link rel="stylesheet" href="index.css">
3 <div id="wrapper">
4 <h1>Wayne State University Bookstore</h1>
5
6 <body>
7 <nav>
8 <a href="index.html">Home </a>
9 <a href="catalog">Catalog </a>
10 <a href="tech.html">Electronics </a>
11 <a href="login.html">Login </a>
12 </nav>
13
14 <div id="homehero">
15 </div>
16 <main>
17 <h2>Get ready for the semester now!</h2>
18 <p><span class="book">Welcome to the Wayne State University Bookstore!</span> Browse through our wide ranged inventory of Textbooks, Novels, Magazines, and more. We keep
19
20 <ul>
21 <li>Easy to navigate inventory with intricate details.</li>
22 <li>A broad section of titles for adults and kids.</li>
23 <li>Dine at our indoor cafe and Starbucks.</li>
24 <li>Show warrior pride with our wide range of spirit wear.</li>
25 </ul>
26
27 <div>
28 <p>
29 <span class="book">WSU Bookstore</span><br>
30 82 West Warren Street <br>
31 Detroit, MI 48202 <br>
32 888-555-5555<br>
33 </p>
34 </div>
35 </main>
36 <footer>
37 <small>Email us for questions and concerns.</small><br>
38 <small><i>Copyright © 2019 Wayne State University</i></small>
39 <br>
40 <a href="mailto:wsubooks@wayne.edu">Wayne State Bookstore</a>
41 </footer>
42 </body>
43 </html>
```

LibraryInventory [C:\Users\hafa\OneDrive - Wayne State University\Documents\GitHub\LibraryInventory\LibraryInventory] - PyCharm

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help

LibraryInventory \book \views \viewCatalog.py
Index.html x viewIndex.py x LibraryInventory\urls.py x book\urls.py x viewCatalog.py x catalog.html x books.py x LibraryInventory@localhost [console] x _init_.py x index.css x

1 from django.views import generic
2 from book.models import Book
3
4
5
6 class CatalogView(generic.ListView):
7     template_name = 'book/catalog.html'
8     context_object_name = 'list_of_books'
9
10     def get_queryset(self):
11         """Return all books in catalog"""
12         return Book.objects.all()
```

Run TODO Version Control Database Changes Terminal Python Console

11:1 CRLF UTF-8 4 spaces Git: master 9:57 PM 3/21/2019

LibraryInventory [C:\Users\hafa\OneDrive - Wayne State University\Documents\GitHub\LibraryInventory\LibraryInventory] - PyCharm

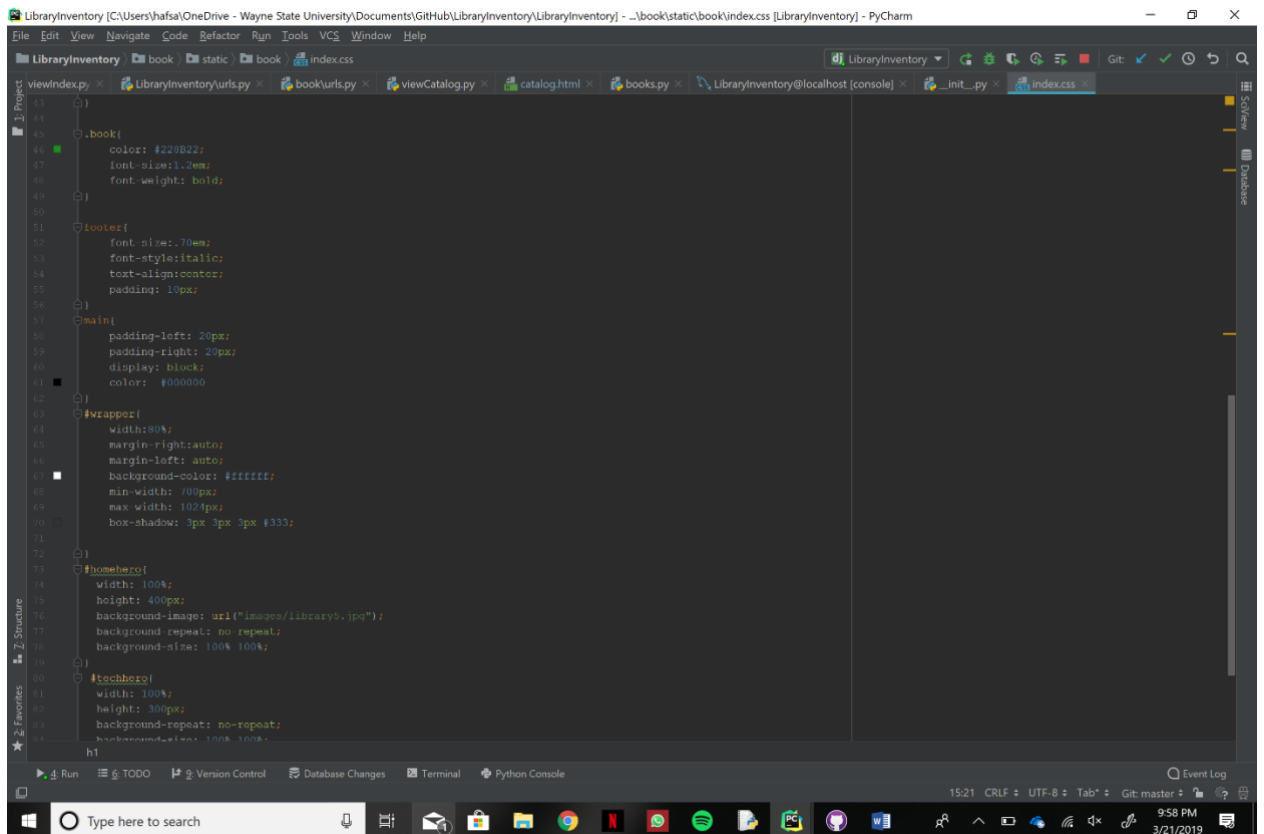
```
File Edit View Navigate Code Refactor Run Tools VCS Window Help

LibraryInventory \book \static \book \index.css
viewIndex.py x LibraryInventory\urls.py x book\urls.py x viewCatalog.py x catalog.html x books.py x LibraryInventory@localhost [console] x _init_.py x index.css x

1 body{
2     background-color: #FFD835;
3     color: #666666;
4     font-family: Verdana;
5     background-image: url("images/background3.jpg");
6 }
7
8 head{
9     background-color: #228B22;
10    color: #228B22;
11    font-family: Georgia;
12 }
13
14 h1{
15     background-color: #006400;
16     color: #FFD700;
17     line-height: 200%;
18     background-position: right;
19     background-repeat: no-repeat;
20     padding-left: 20px;
21     height: 72px;
22     margin-bottom: 0;
23 }
24
25 nav ul{
26     text-decoration: none;
27     color: #228B22;
28 }
29
30 nav li{
31     font-weight: bold;
32     background-color: #FFD700;
33     padding: 3px;
34 }
35
36 h2{
37     font-family: Verdana;
38     color: #228B22;
39 }
40
41 h3{
42     color: #000033;
43 }
44
45 ul{
46     color: #000033;
47     font-family: Verdana;
48 }
49
50 h1
```

Run TODO Version Control Database Changes Terminal Python Console

15:21 CRLF UTF-8 Tab* Git: master 9:58 PM 3/21/2019

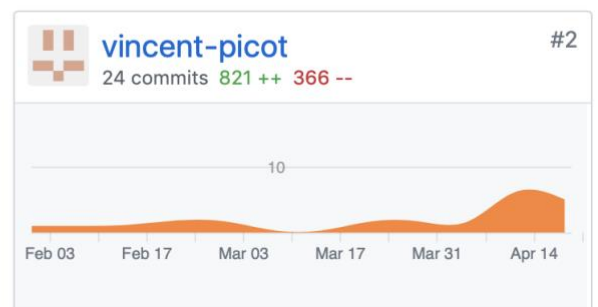
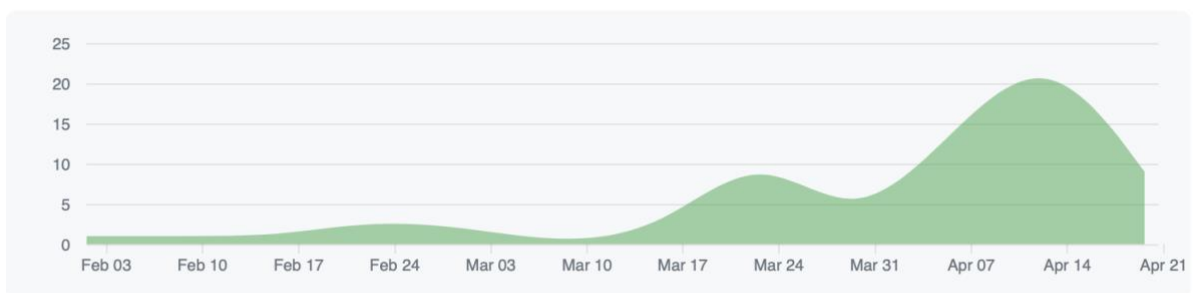


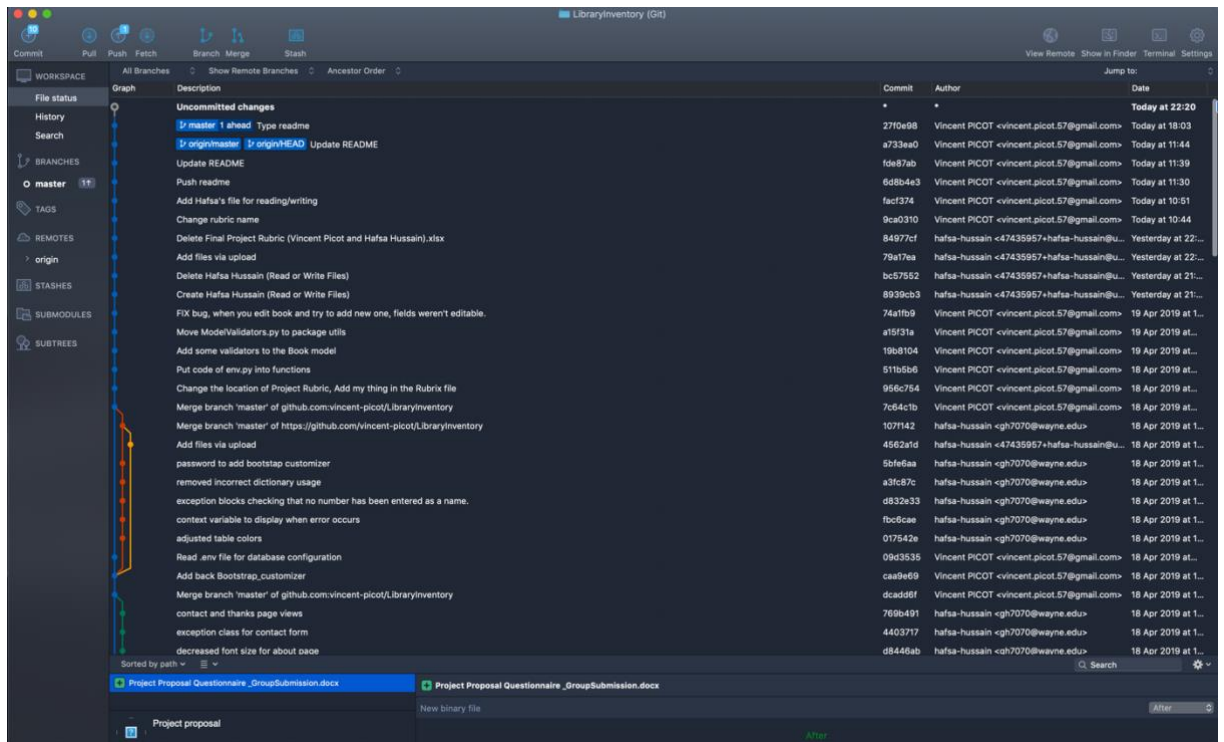
Update: Bellow are screenshot of the updated part from the above screenshots.

Feb 3, 2019 – Apr 22, 2019

Contributions: Commits ▾

Contributions to master, excluding merge commits





Get ready for the semester now!

Welcome to the Wayne State University Bookstore!

Browse through our wide ranged inventory of Textbooks, Novels, Magazines, and more. We keep track of all of your payments and refunds so you do not have to!

- Easy to navigate inventory with intricate details.
- A broad section of titles for adults and kids.
- Dine at our indoor cafe and Starbucks.
- Show warrior pride with our wide range of spirit wear.

WSU Bookstore
82 West Warren Street
Detroit, MI 48202
+1 (888)-555-5555

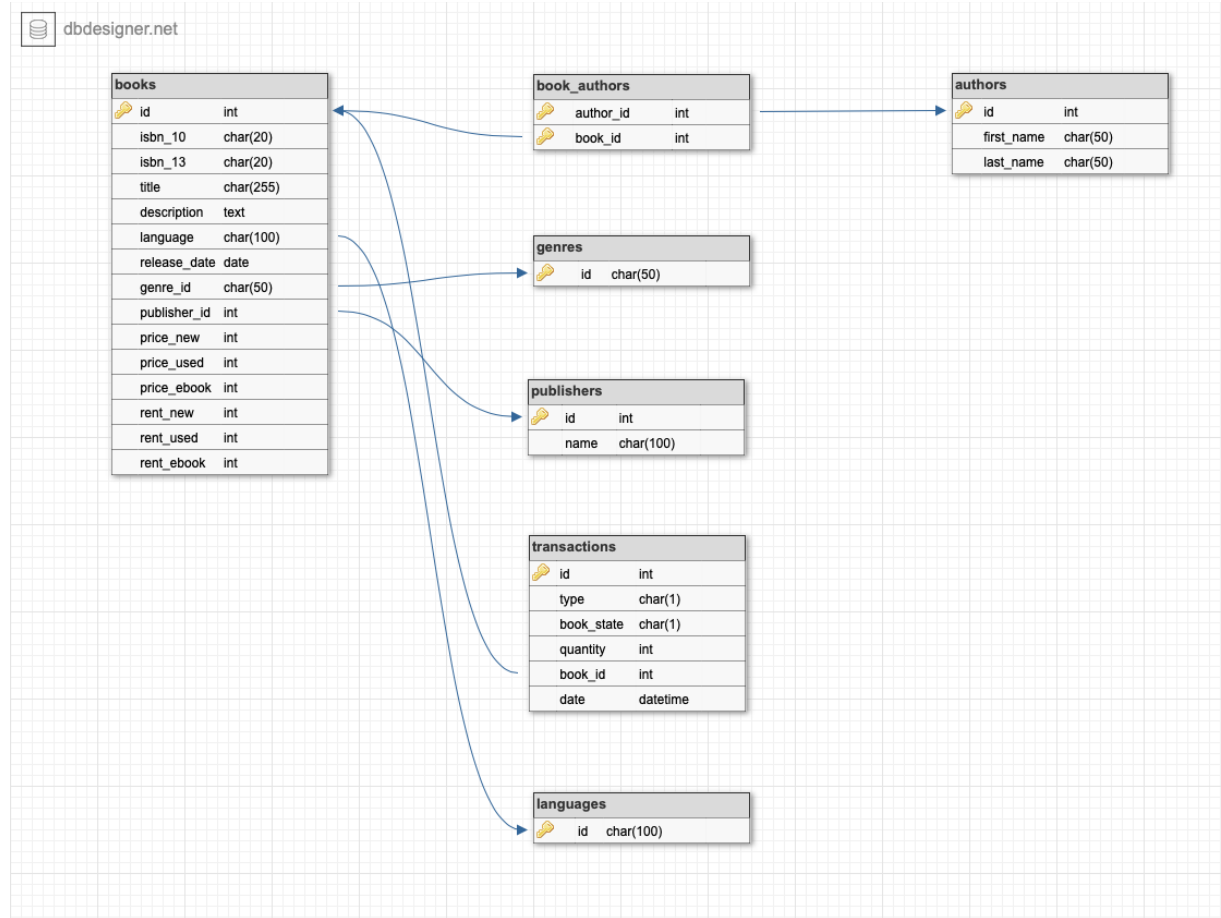
Email us for questions and concerns.
[Wayne State Bookstore](#)
Copyright © 2019 Wayne State University

4)

- Because there are only two of us now, we do not make much use of the Gantt chart or the Kanban board, and rather meet frequently to keep each other updated as well as work together.
- We both work together to brainstorm ideas on how to better our project as well as do the actual coding portion. Originally, the work was split between 3 people but has now changed to 2 which is something we are in the process of adjusting to. Fortunately, we work well together and assist each other when needed.

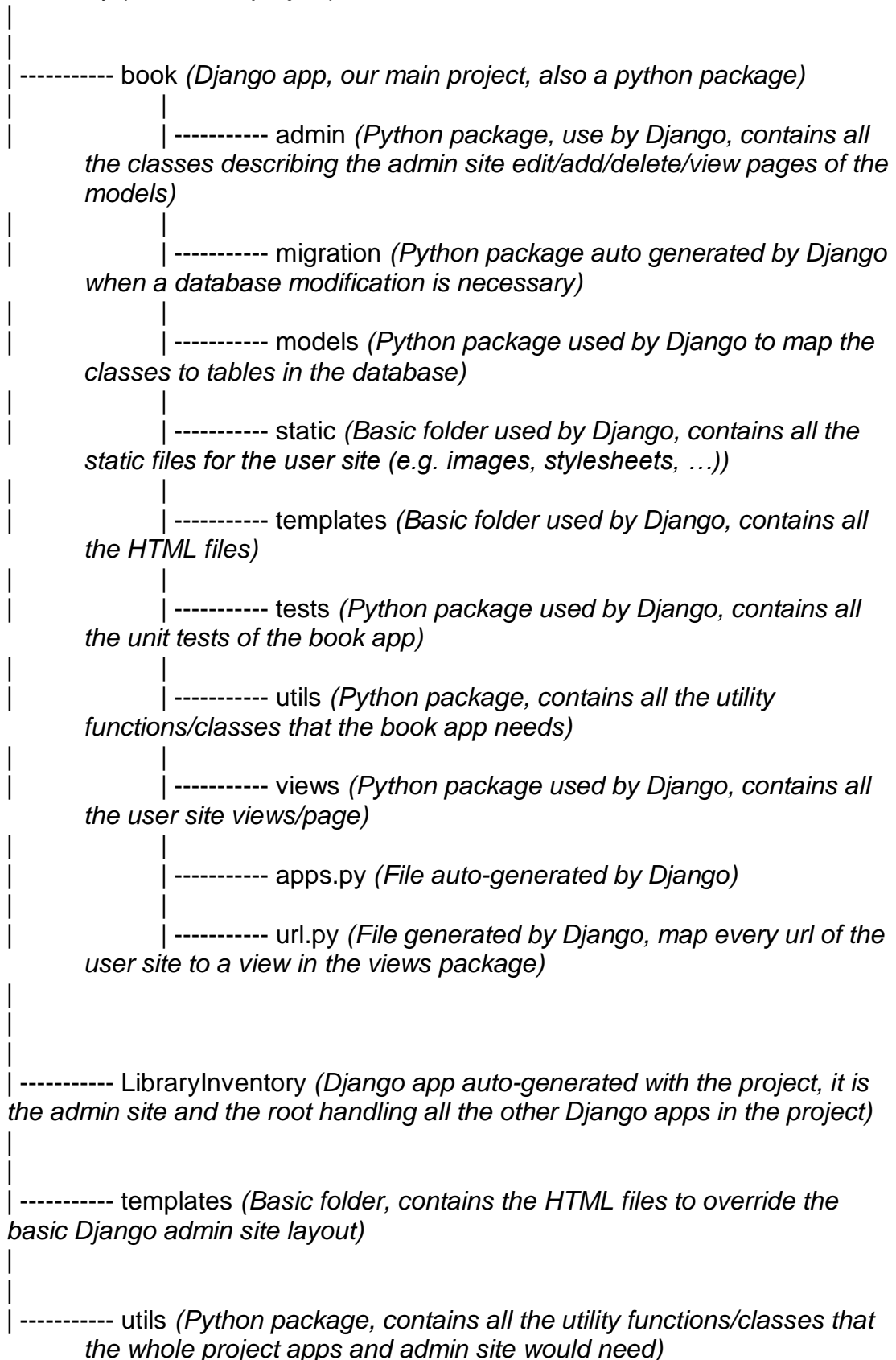
Final architecture documentation:

Below is a screenshot of our database architecture:



Below is a schema of our project architecture:

LibraryInventory (root of the project)



If you need more information about a specific package or module inside a package, you can consult directly the specific package/module you are interested in. Every module/class/method/attribute is commented to explain its purpose, where and how it's used.