SQL Library Project

CS 4347.002

Team F

Team member:
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Github Repository:
https://github.com/4347groupF/dbproject

I.   Project Description

Our programming languages which we chose to use for this project were python Django for the backend development, and HTML and CSS for front end development. Our architecture decisions were based around adapting to our Django framework which forced us to make unconventional choices as Django uses a Model Template View framework, which means we had to separate certain functionalities such as data access and user interfaces to certain files. This also impacted our GUI as we tried to make it as easy to navigate and operate for the user through implementing CSS, JavaScript on top of our HTML, and by creating an initial login/sign-up/librarian menu page before leading to our book search page as well as having a menu tab which can be opened from all pages to navigate our website. Strongest advantages of our program are not-dictating platform, OS, or framework. Up-to-date python version is enough to execute the program.

II.   Architecture

```
.
└─ booksearchproject/
   ├─ booksearch/
   │  ├─ static/
   │  │  └─ booksearch/
   │  │     ├─ any image files
   │  │     └─ .js files
   │  ├─ templates/
   │  │  └─ booksearch/
   │  │     └─ .html files
   │  ├─ urls.py
   │  ├─ views.py
   │  ├─ models.py
   │  └─ forms.py
   ├─ booksearchproject/
   │  ├─ settings.py
   │  ├─ urls.py
   │  └─ etc
   ├─ scripts/
   │  └─ Update Fine.sql
   └─ manage.py
```

III.   Roles

Name	Responsibility	Sub-group
Sailesh Andra	MENU bar, Profile, CheckOut, SearchResults design	Front-end
Caleb Ernst	Librarian features, SignIn, SignUp, index design	Front-end
Yong hyun Lee	Primary architect and team lead / Login, Profile, Check-In & Out logic	Back-end
David Yang	Database administration / Book loans, SignUp, Fine management logic	Back-end
Matthew	Primary documenting / Index and Book search logic	Back-end