

# Book Exchange Application Project on iOS

**Abstract--** Exchange books is a new way of environmental protection. However, There is no good platform for book exchange in China. This application which designed and coded by myself will provide a good platform for people to exchange their books.

## Introduction

### Different situation between China and the US

Book exchange is a new thing in China. In fact, in the US, there are colleges and universities have design an online book exchange program in Web[1].

### Reason for designing this application

According to 2017 China Book Market report, the total size of book market reached **80.32 billion**, this means old book market is also active[2].

The book exchange application will provide a platform for readers to exchange their books, not only exchange online, but swap in self-taking machine.

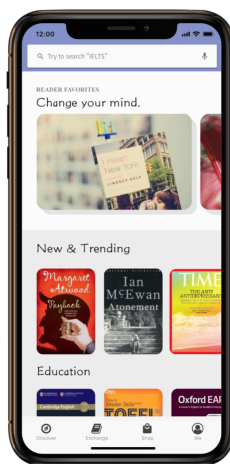


Figure 1: Book Exchange Application on iOS

### Exchange method

When user enters all information of their book, a new page will let user to select exchange method such as mailing, meeting transaction and self-taking machine.

The whole demo is available in QR code in Figure 10.

## User interface

### Design details

In this application, main interface is shown in Figure 1. For more details, navigation bar below is divide by four parts: Discover, Exchange, Shop and Me. It is shown in Figure 2.

For discover part, it provides an editor recommend book list for users to affect interest.



Figure 2: Navigation bar

For exchange part, it is shown in Figure 3. This project designed a search button to let user search a book they like.

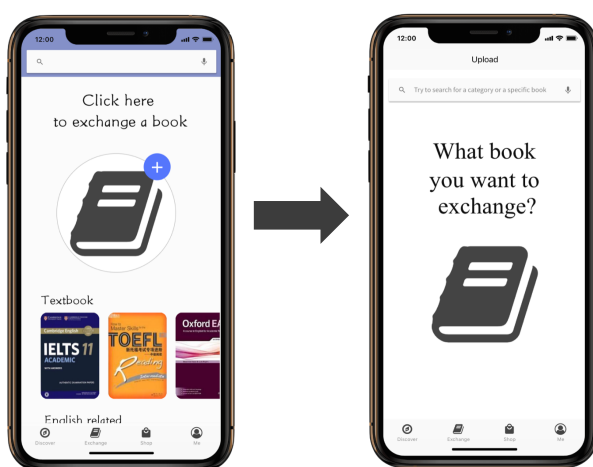


Figure 3: Exchange part

Second interaction is shown in Figure 4 and search interface is shown in Figure 5. If user wants a a book related EEE 109, it is shown in Figure 5.



Figure 4: Second interaction in Exchange part

The search result is shown in Figure 6, then user clicks one of Photos on the list, it will show more details for the book. It is shown in Figure 7.



Figure 5: Second interaction in Exchange part

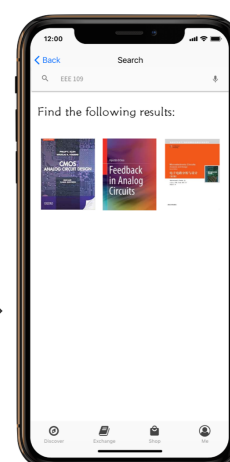


Figure 6: Search book

However, users must upload their own book's photo and details before they can exchange with others. The upload page is shown in Figure 8.



Figure 7: More information for book



Figure 8: Upload page



Figure 10: QR code

## Limitation

This project needs experience of database, this is one of the limitation for this project. Without database, this application cannot store the data. I will seek for help from Year 3 student.

## Evaluation

This application is a good way for person to exchange books, because there is a book exchange, there is no copyright issue.

However,inevitable fraud may happened in exchanging. In the future, this app may introduce Ant credit's API to consider user's credit.

## Reference

[1] Anon, (n.d.). University of South Florida. [online] Available at: <https://tap.usf.edu>

[2] Qdaily.com. (2018). Book sales in China in 2017. [online] Available at: <https://www.qdaily.com/articles/49126.html>