

Project Report of

Web Application and Development



(Chosen Application: Book Exchange System)

1. Installation Guide

- Download the source code and unzip the file.
- Upload the whole file into the server.
- User can use the database we created according to the information in *dbConnection.php*

```
$serverName="mysql.comp.polyu.edu.hk";  
$dbusername="14110113d";  
$dbpassword="iruxmads";  
$dbname="14110113d";  
mysql_connect($serverName,$dbusername,$dbpassword) or die("Could not connect the database");
```
- Or user can create the database by themselves:
 - Please change the *serverName*, *dbusername*, *dbpassword*, *dbname* in *dbConnection.php*
 - Create the database tables according to the information below:

Hereby we attached the schemas of our tables for user reference:

Table: Admin	
admin_id (pk)	INTEGER
adminname	VARCHAR
password	VARCHAR

Table: User	
user_id (pk)	INTEGER
username	VARCHAR
password	VARCHAR
birthday	DATETIME
gender	VARCHAR
city	VARCHAR
email	VARCHAR

Table: Ownership	
ownership_id (pk)	INTEGER
owner_id	VARCHAR
owner_name	VARCHAR
ISBN	VARCHAR
bookname	VARCHAR
addDate	VARCHAR
loanDate	VARCHAR

Table: Request	
request_id (pk)	INTEGER
owner_id	VARCHAR
sender_id	VARCHAR
sender_name	VARCHAR
ISBN	VARCHAR
date	VARCHAR

Table: Feedback	
feedback_id (pk)	INTEGER
user_id	INTEGER
username	VARCHAR
date	VARCHAR
email	VARCHAR
content	VARCHAR

Table: Anouncement	
anouncement_id (pk)	INTEGER
admin_id	INTEGER
date	DATETIME
content	VARCHAR

2. User Guide

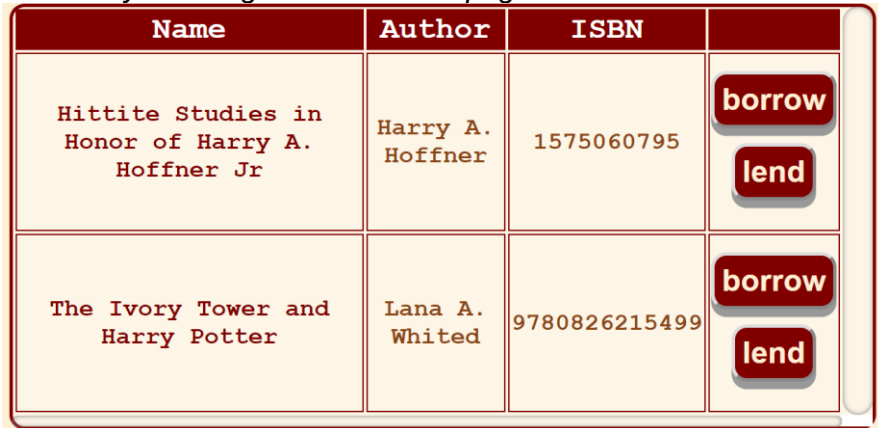
To be convenient for testing, we have already signed up some accounts for testing.

Name	Password
Existing Users	
121	131
666	666
SherryJYC (this account has real email address)	12345
snsnlou(this account has real email address)	123
Existing Admin	
admin	admin

To be convenient for testing, **the number in Step column** in the table below is corresponding to **Step column in our testing plan**.


Guide for User			Step
1-- Browse homepage: http://www2.comp.polyu.edu.hk/~14110113d/Project/index.php			
Header description	Button Name	Brief Description	
	Sign Up	User can register personal information	
	Login	User can log in	
	Contact Us	User can give feedback to administrator User can see geolocation of PolyU in Google Map	
	Admin Login	Admin can login	
2-- Sign up & Login			
Sign Up	Input: Username, Password, Confirmed Password, Email are required;		1

Login	Input: Username, Password (Existing users are attached above)	2										
3-- User Center												
FAQ	User can check 'Frequently Asked Questions' of this application.											
Announcement	User can see the announcement from the system admin <ul style="list-style-type: none">User can refresh announcement	3										
Recommendations	User can see recommendation book list <ul style="list-style-type: none">Recommendation list will show after the first search	4										
Borrow / lend a book	User can search books according to their requirements.	5										
Search a user	User can see the (public) info of other users by searching user name User can send email to the searched user: (to test email function, please ensure email address is real during registration step) <ul style="list-style-type: none">send comment to the book owner through emailcheck comment from borrower through emailsend the shipment information through emailUser can see the location of other users in Google map	18 13 14 17 19										
My books	User can see their books to lend out											
Check requests	User can see requests from others <ul style="list-style-type: none">User should consider whether to accept requests	10										
Require unavailable books	User can send request to administrator to require a certain book	16										
My exchanges	User can see their lend out and borrow history. For books shown in borrow in history, <ul style="list-style-type: none">user can send request for an extensionuser can return this book <table><tr><th>Owner Name</th><th>ISBN</th><th>Start Time</th><th>Expected Return Date</th><th>Remarks</th></tr><tr><td>888</td><td>9865751615</td><td>2018-05-12 08:55:08pm</td><td>2018-05-26</td><td><div>Return</div><div>Apply for Extension to book owner</div></td></tr></table>	Owner Name	ISBN	Start Time	Expected Return Date	Remarks	888	9865751615	2018-05-12 08:55:08pm	2018-05-26	<div>Return</div> <div>Apply for Extension to book owner</div>	11 12
Owner Name	ISBN	Start Time	Expected Return Date	Remarks								
888	9865751615	2018-05-12 08:55:08pm	2018-05-26	<div>Return</div> <div>Apply for Extension to book owner</div>								
Current popular books	User can see the popular books in Google chart	20										
Account information update	User can change personal information	21										

Send Feedback	User can give feedback to administrator	15
Log out	User can log out	22
Destroy account	User can delete account	23
4-- Borrow / lend a book		
Search button	User can search books according to their requirements.	5
	Autocomplete function when user trying to search books <ul style="list-style-type: none"> One recommendation will show in every 2 seconds 	6
Book list shown after clicking search	Click <i>book name</i> : User can see book information.	7
	Click <i>lend</i> button: User can upload the book waiting for exchange <ul style="list-style-type: none"> go to <i>Check requests</i> in <i>user homepage</i> once other people want to borrow, then <i>My books</i> will show the status of books lent out 	8
	Click <i>borrow</i> button: User can see if there is owner and send an exchange request <ul style="list-style-type: none"> Once the request is approved, <i>borrow in</i> record will show in <i>My exchanges</i> in <i>user homepage</i> 	9

Guide for Admin		Step
1-- Admin Control Panel		
This control panel will be displayed after you log in as admin.		
	Button Name	Brief Description

Button description of Control Panel	Add a Record	Admin can add a record of book ownership.											
	Delete a Record	Admin can delete a record of book ownership.											
	Search a User	Admin can search a user and find out his profile.											
	Make Announcement	Admin can check the current announcement, add new announcement and delete them.											
	Check Inbox	Admin can check the feedback and request of unavailable books of users.											
	Log out	Admin can log out.											
2-- User Management													
Search a User	<ul style="list-style-type: none">Input: UsernameOutput: table of matched users <table><tr><th>User Name</th><th>Birthday</th><th>Gender</th><th>Email</th><th></th></tr><tr><td>SherryJYC</td><td>1997-07-01 00:00:00</td><td>f</td><td><button>Send Email</button></td><td><button>Show</button></td></tr></table>		User Name	Birthday	Gender	Email		SherryJYC	1997-07-01 00:00:00	f	<button>Send Email</button>	<button>Show</button>	1
User Name	Birthday	Gender	Email										
SherryJYC	1997-07-01 00:00:00	f	<button>Send Email</button>	<button>Show</button>									
Delete an existing user	<ul style="list-style-type: none">Input: table of matched users (graph shown above)Steps: Click 'Show' to see the profile of user and click 'Remove' button inside profile. <div>Remove SherryJYC from BOOKCROSSING</div>		2										
3-- Communication with User													
Make Announcement	<ul style="list-style-type: none">Admin can check current announcements, delete them and add new announcements.		6										

		
Check Inbox	<ul style="list-style-type: none"> Admin can check the feedback and requests of unavailable books from users. 	7,8
4--Book Managment		
Delete a Record	<ul style="list-style-type: none"> Input: User ID, ISBN Output: without error, you will be directed to admin control panel. 	3

4. Account to access working environment

Account Name	Password
14110113d	1234567d

5. Appendix

Source codes are stored in compressed folder