# CSCI-5448 OOAD BOOKWISE - Project Part 2

Individual - Zhihao Wu Use Case: Post Listing

**Title:** BOOKWISE (An android app for exchanging and selling textbooks)

# **Project Summary:**

An Android App where students can post their textbooks for sale; users(students) would be able to search for a book, buy it or exchange it for a book that the other user(seller) requires. Books will categorized for different subjects and will have information of condition, edition, picture of cover page and location. All data will stored in a database.

## **Project Requirements:**

Business Requirement							
ID	Requirement	Topic Area	User	Priority			
BR - 001	All users must use university email id to create profile.	Authentication	All	Critical			

	User Requirements								
ID	Requirement	Topic Area	User	Priority					
UR - 001	As a system admin, I want to see user profile as soon as it is created so that I can keep track of all the users of the system.	User Record Maintenance	Admin	Medium					
UR - 002	As a customer service representative, I want to be notified of all failures (during login and payment etc) so that I can respond to corresponding user within an hour.	System Validation	Custome r Service Represe ntative	High					
UR - 003	Only seller maintains all the information about book details such as updating book availability status, rejecting reservations and deleting book details when it is sold.	Book Profile	Seller	High					
UR - 004	Buyer can search for the books, he is interested in and can reserve the same if it is available.	Book Reservation	Buyer	High					

	Functional Requirements							
ID	Requirement	Topic Area	User	Priority				
FR - 001	System will lists some of the recent books available in home page screen, when user logged into system.	System Display	System	Medium				
FR - 002	If buyer selects any book in which he is interested, then system will notify seller of the corresponding book about the same.	Notification to Seller	System	High				

	Non Functional Requirements								
ID	Requirement	Topic Area	User	Priority					
NFR - 001	Login functionality shall behave the same on different platforms (Linux/Windows/iOS/mobile).	Portability	System	High					
NFR - 002	Restart the system in case of failures.	Reliability	System	Medium					
NFR - 003	Upon providing correct credentials, user shall be directed to the home page within 10 seconds max.	Performance	System	Medium					
NFR - 004	System will be open sourced.	Legal	System	Medium					

#### **Users and Tasks:**

In the system, we have two types of user: seller and buyer. Both seller and buyer should be able to register, login and logout. The buyer should be able to search for book by title, reserve book and cancel reservation. The seller should be able to post books for sale, reject buyer's reservation and delete posted book. In our android APP, we will provide various of activities such as register, search and result activities interacting with a central database to support those tasks. Use cases documents are shown below:

#### Use Case List

Use Case ID	Primary Actor	Use Cases
UC-1.1.1	General User	Register
UC-1.1.2	General User	Sign In
UC-1.1.3	General User	Logout

UC-1.1.4	General User	Provide Valid E-mail Address
UC-1.1.5	General User	Create Valid Password
UC-1.1.6	General User	Provide Valid Password
UC-1.1.7	General User	Provide Contact Information
UC-1.2.3	Buyer	Cancel Reservation
UC-1.3.1	Seller	Posting Books

# Use cases

Use Case ID:	UC-	UC-1.1.1				
Use Case Name:	Regi	Register				
Created By:	Shuz	zhe Zhang	Last Updated By:	Shuzhe Zhang		
Date Created:	Oct 6	6, 2015	Last Revision Date:	Oct 6, 2015		
Act	ors:	General User (Any l	Jser)			
Descript	ion:	This use case allow	a user to register for a n	new account		
Frequency of	Use:	Once per User				
Precondition	ons:	User does not have	an account			
Postcondition	ons:	User has an account				
Normal F	Normal Flow:  1. User visit the register page 2. User provide valid @colorado.edu E-mail add 3. User create valid password (at least 8 digits) 4. Provide contact information (Mandatory/option 5. User click on register button			igits)		
Exception	ons:	<ol> <li>E-mail address</li> <li>Password is inv</li> <li>Mandatory cont</li> <li>Account Already</li> </ol>	alid act information not provid	ded		
Inclu	des:	Provide Valid Email Create Valid Passw Provide Contact Info	ord			
Spe Requireme	ecial nts:	None				
Assumption	ons: User has internet access					
Notes and Iss	ues:	res: None				

Use Case ID:	UC-1.1.2
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Use Case Name:	Sig	Sign In			
Created By:	Shu	uzhe Zhang	Last Updated By:	Shuzhe Zhang	
Date Created:	Oct	6, 2015	Last Revision Date:	Oct 6, 2015	
Acto	rs:	General User (Any L	Jser)		
Description	on:	This use case allow	a user to sign in with his/	her account	
Frequency of U	se:	Every time switch ac	count or sign in to a new	device	
Preconditio	ns:	User was logged out	t		
Postconditio	ns:	User is signed in			
Normal Flo	ow:	<ol> <li>User visit the sig</li> <li>User provide val</li> <li>User provide val</li> <li>User click on sig</li> </ol>	iid <u>@colorado.edu</u> E-mai lid password	l address	
Exception	ns:	<ol> <li>E-mail address is invalid</li> <li>Password is invalid</li> </ol>			
Includ	es:	Provide Valid E-mail Provide Valid Passw			
Special Requirements:		None			
Assumptio	Assumptions: User has internet ac		cess		
Notes and Issues: None					

Use Case ID:	UC-1	UC-1.1.3			
Use Case Name:	Log	out			
Created By:	Shuz	he Zhang	Last Updated By:	Shuzhe Zhang	
Date Created:	Oct 6	5, 2015	Last Revision Date:	Oct 6, 2015	
Act	ors:	General User (Any Us	er)		
Descript	tion:	This use case allow a user to log out his/her account			
Frequency of	Use:	Every time user wants to log out			
Preconditi	ons:	User was signed in			
Postconditi	ons:	User is logged out			
Normal Flow:		User click on log out button			
Exceptions: None					
Inclu	des:	None			

Special Requirements:	
Assumptions:	User has internet access
Notes and Issues:	None

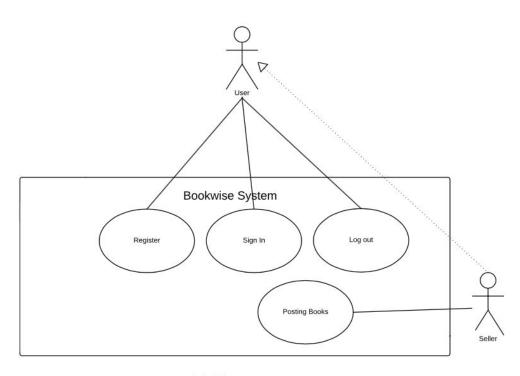
Use Case ID:	UC-1	UC-1.1.4			
Use Case Name:		Provide Valid E-mail Address			
Created By:		zhe Zhang	Last Updated By:	Shuzhe Zhang	
Date Created:		6, 2015	Last Revision Date:	Oct 6, 2015	
	ors:	General User (Any Use		0000, 2010	
		` •	user to provide a valid E	mail address	
Descript			·	-inali address	
Frequency of					
Precondition	ons:	Email address not prov	rided		
Postcondition	ons:	Email address provided	d		
Normal F	low:	User click on E-mail address input field     User type in E-mail address			
Exception	ons:	None			
Inclu	des:	None			
Spe Requireme	cial nts:	None			
Assumption	ons:	User has internet access			
Notes and Issu	ues:	None			
Use Case ID:	UC-	1.1.5			
Use Case Name:	Crea	ite Valid Password			
Created By:	Shuz	zhe Zhang	Last Updated By:	Shuzhe Zhang	
Date Created:	Oct 6	6, 2015	Last Revision Date:	Oct 6, 2015	
Act	ors:	General User (Any Use	er)		
Descript	ion:	This use case allow a user to create a valid password			
Frequency of Use:		Every time user wants to register			
Precondition	ons:	Password not exist			
Postcondition	ons:	Password created			

Normal Flow:		User click on the new password input field     User type in a new password				
Exceptions:		None				
Includes:		None				
Special		None				
Requirements:						
Assumptions:		User has internet access				
Notes and Issues:		None				
Use Case ID:	UC-1	.1.6				
Use Case Name:	Prov	ide Valid Password				
Created By:	Shuz	rhe Zhang	Last Updated By:	Shuzhe Zhang		
Date Created:	Oct 6	6, 2015	Last Revision Date:	Oct 6, 2015		
Actors:		General User (Any User)				
Description:		This use case allow a user to provide a valid password				
Frequency of Use:		Every time user wants to sign in				
Preconditions:		Password not provided				
Postconditions:		Password provided				
Normal Flow:		User click on the password input field     User type in the password				
Exceptions:		None				
Includes:		None				
Special Requirements:		None				
Assumptions:		User has internet access				
Notes and Issues:		None				
Use Case ID:	UC-1	1.1.7				
Use Case Name:	Prov	ride Contact Information				
Created By:	Shuz	rhe Zhang	Last Updated By:	Shuzhe Zhang		
Date Created: Oct 6, 2015		Last Revision Date: Oct 6, 2015				
Actors:		General User (Any User)				
Description:		This use case allow a user to provide his/her contact information				

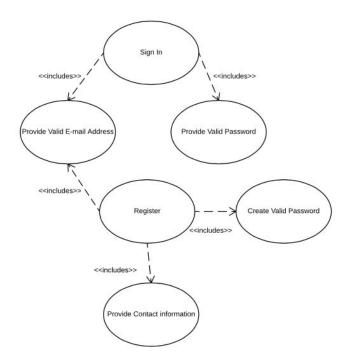
Frequency of Use:	Every time user wants to register		
Preconditions:	Contact information (mandatory/optional) not provided		
Postconditions:	Contact information (mandatory/optional) provided		
Normal Flow:	<ol> <li>User click on the contact information input field</li> <li>User type in the contact information</li> </ol>		
Exceptions:	None		
Includes:	None		
Special Requirements:	None		
Assumptions:	User has internet access		
Notes and Issues:	None		

Use Case ID:	UC-1.3.1					
Use Case Name:	Post Book					
Created By:	Shuzhe Zhang		Last Updated By:	Shuzhe Zhang		
Date Created:	Oct 6, 2015		Last Revision Date:	Oct 6, 2015		
Actors:		Seller				
Description:		This use case allow a seller to post a book he/she wants to sell				
Frequency of Use:		Every time a Seller has a book to sell				
Preconditions:		Seller has not posted the book for sale				
Postconditions:		Seller has posted the book for sale				
Normal Flow:		<ol> <li>Seller visit the book posting page</li> <li>Seller provide book title/author/edition</li> <li>Seller click on post button</li> </ol>				
Exceptions:		None				
Includ	les:	None				
Spe Requireme	pecial None nents:					
Assumptio	ns:	User has internet access				
Notes and Issu	ies:	None				

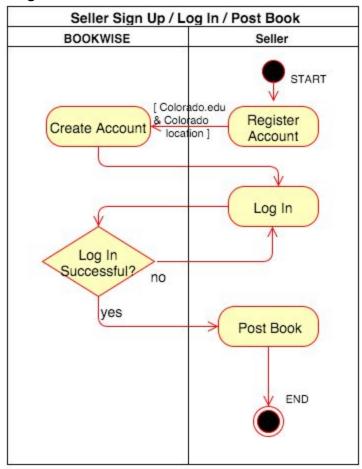
Use cases diagram:



Sub-Diagram

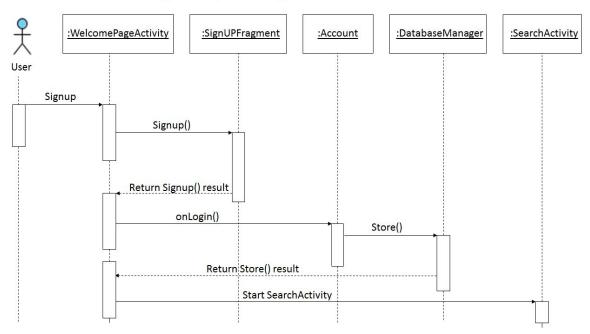


# **Activity Diagram:**

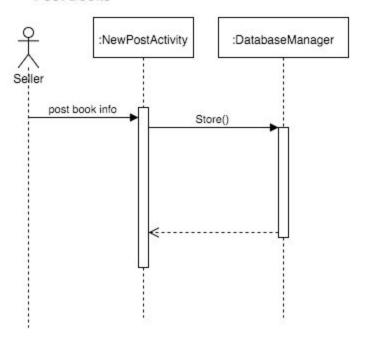


**User Interactions:** 

Sign In Sequence Diagram



# Post Books



## **Class Diagram:**

