CSCI-5448 OOAD
BOOKWISE - Project Part 2 Extra Credit

Name: Shuzhe Zhang

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.

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	Provide Valid E-mail Address
UC-1.1.4	General User	Create Valid Password
UC-1.1.5	General User	Provide Valid Password
UC-1.1.6	General User	Provide Contact Information
UC-1.2.1	Buyer	Search For Books

Use cases

Use Case ID:	UC-1.1.1		
Use Case Name:	Regster		
Created By:	Shuzhe 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 register for a new account		
Frequency of Use:	Once per User		
Preconditions:	User does not have an account		
Postconditions:	User has an account		
Normal Flow:	i. User visit the register page ii. User provide valid @colorado.edu E-mail address iii. User create valid password (at least 8 digits) iv. Provide contact information (Mandatory/optional) v. User click on register button		
Exceptions:	i. E-mail address is invalid ii. Password is invalid iii. Mandatory contact information not provided iv. Account Already exist		
Includes:	Provide Valid Email Address Create Valid Password Provide Contact Information		
Special Requirements:	None		
Assumptions:	User has internet access		
Notes and Issues:	None		

Use Case ID:	UC-1.1.2		
Use Case Name:	Sign In		
Created By:	Shuzhe 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 sign in with his/her account		
Frequency of Use:	Every time switch account or sign in to a new device		
Preconditions:	User was logged out		
Postconditions:	User is signed in		
Normal Flow:	i. User visit the sign in page ii. User provide valid @colorado.edu E-mail address iii. User provide valid password iv. User click on sign in button		
Exceptions:	i. E-mail address is invalid ii. Password is invalid		
Includes:	Provide Valid E-mail Address Provide Valid Password		
Special Requirements:	None		
Assumptions:	User has internet access		
Notes and Issues:	None		

Use Case ID:	UC-1.1.3		
Use Case Name:	Provide Valid E-mail Address		
Created By:	Shuzhe 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 a valid E-mail address		
Frequency of Use:	Every time user wants to register or sign in		
Preconditions:	Email address not provided		
Postconditions:	Email address provided		
Normal Flow:	i. User click on E-mail address input field ii. User type in E-mail address		
Exceptions:	None		
Includes:	None		
Special Requirements:	None		
Assumptions:	User has internet access		
Notes and Issues:	None		

Use Case ID:	UC-1.1.4		
Use Case Name:	Create Valid Password		
Created By:	Shuzhe 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 create a valid password		
Frequency of Use:	Every time user wants to register		
Preconditions:	Password not exist		
Postconditions:	Password created		
Normal Flow:	i. User click on the new password input field ii. User type in a new password		
Exceptions:	None		
Includes:	None		

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

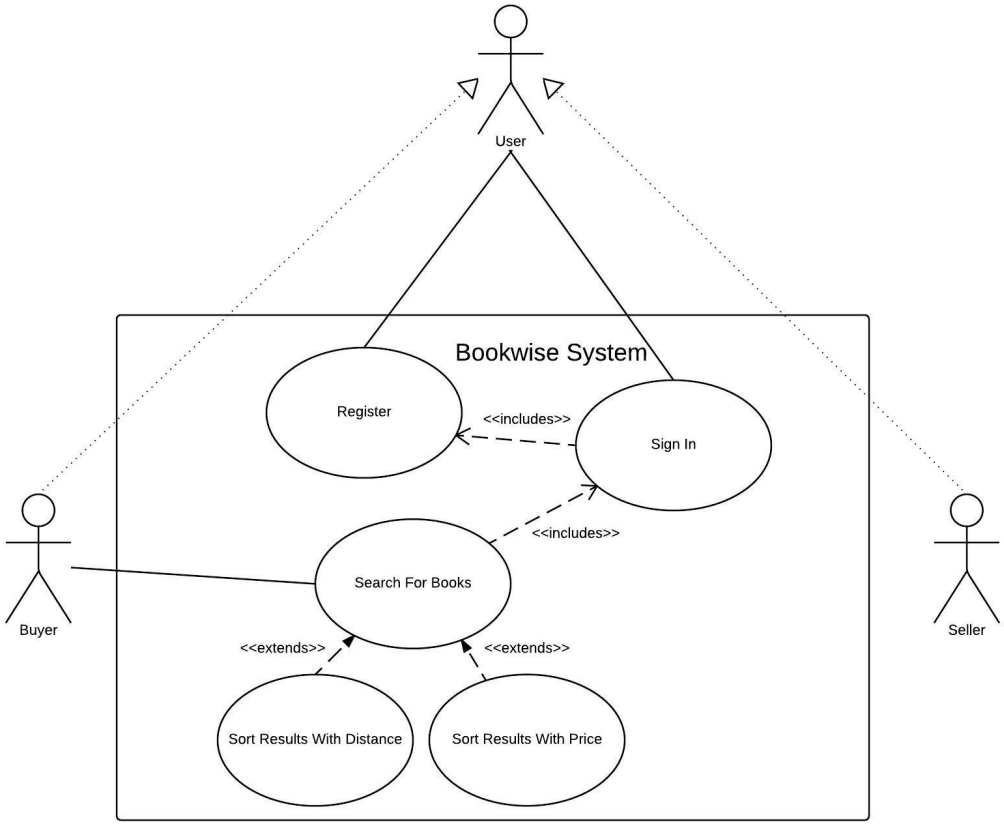
Use Case ID:	UC-1.1.5		
Use Case Name:	Provide Valid Password		
Created By:	Shuzhe Zhang	**Last Updated By:**	Shuzhe Zhang
Date Created:	Oct 6, 2015	**Last Revision Date:**	Oct 6, 2015
Actors:	General User (Any User)		
Description:	This use case allow a user to provide a valid password		
Frequency of Use:	Every time user wants to sign in		
Preconditions:	Password not provided		
Postconditions:	Password provided		
Normal Flow:	i. User click on the password input field ii. 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-1.1.6		
Use Case Name:	Provide Contact Information		
Created By:	Shuzhe 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:	i. User click on the contact information input field ii. User type in the contact information		

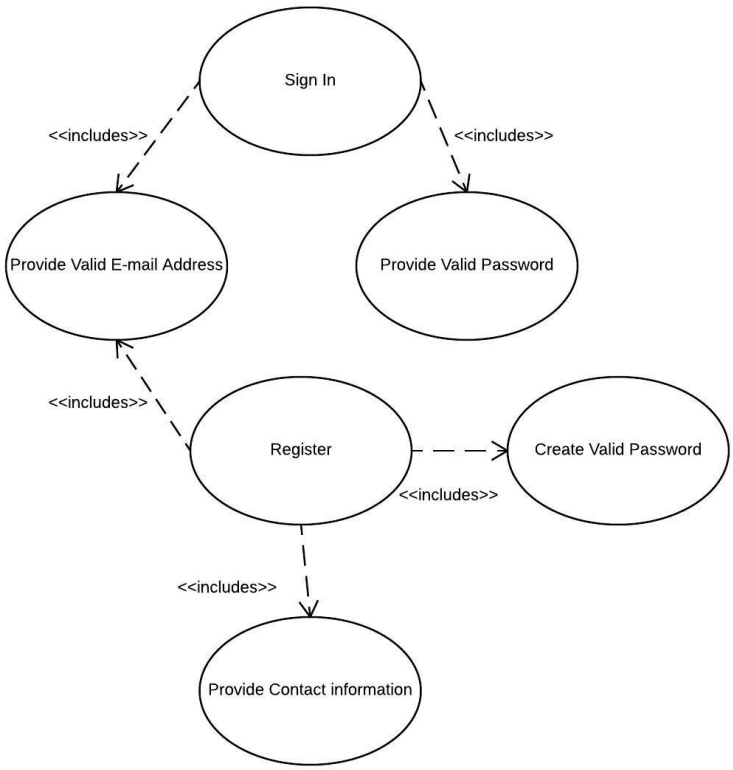
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	User has internet access
Notes and Issues:	None

Use Case ID:	UC-1.2.1		
Use Case Name:	Search Books		
Created By:	Shuzhe Zhang	**Last Updated By:**	Shuzhe Zhang
Date Created:	Oct 6, 2015	**Last Revision Date:**	Oct 6, 2015
Actors:	Buyer		
Description:	This use case allow a Buyer to search for book he/she wants to buy		
Frequency of Use:	Every time Buyer wants to buy a book		
Preconditions:	Buyer was on search page		
Postconditions:	Buyer has a list of results		
Normal Flow:	i. Buyer visit the search page ii. Buyer provide title/author/edition iii. Buyer select sort with distance/price option iv. Buyer click on search		
Exceptions:	None		
Extends:	Sort Results With Distance Sort Results With Price		
Special Requirements:	None		
Assumptions:	User has internet access		
Notes and Issues:	None		

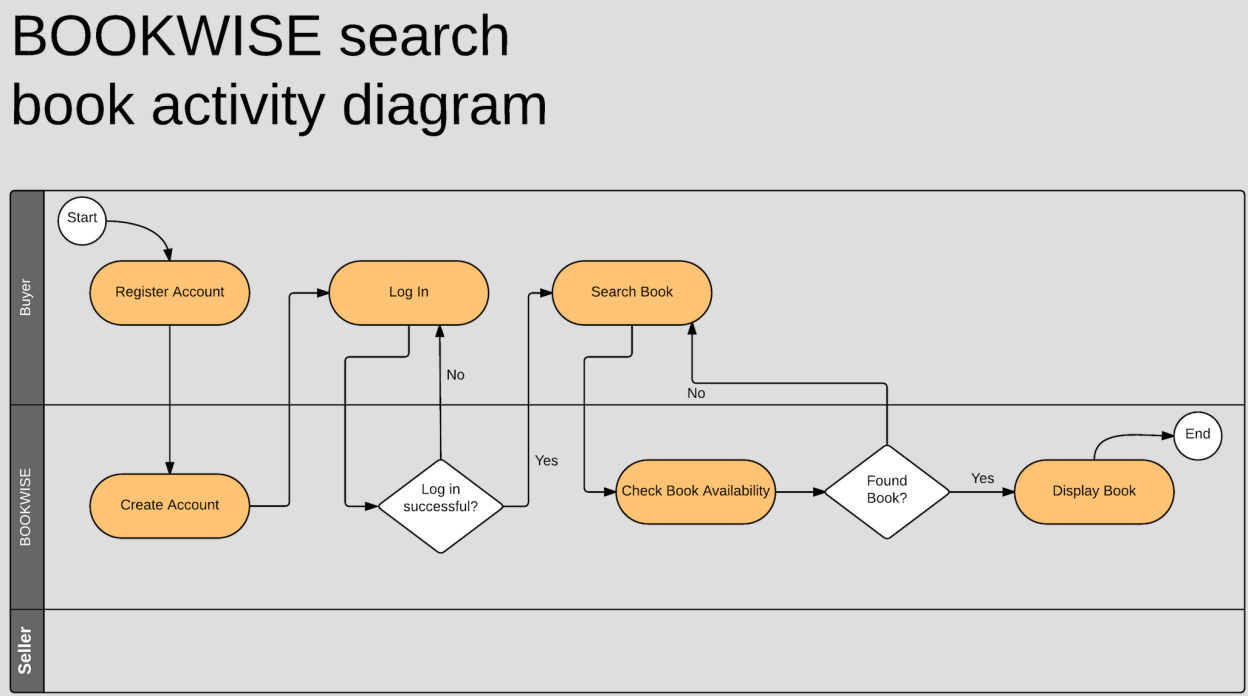
Use case diagram



Sub-Diagram

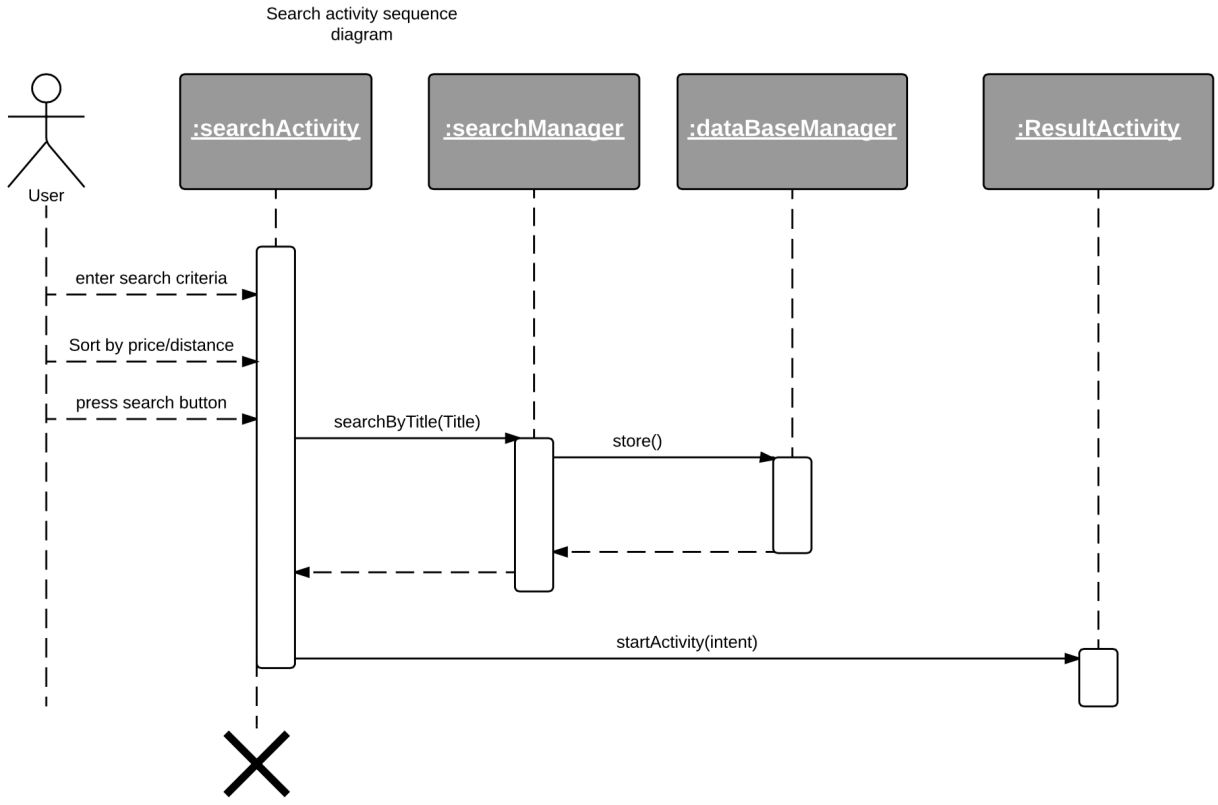
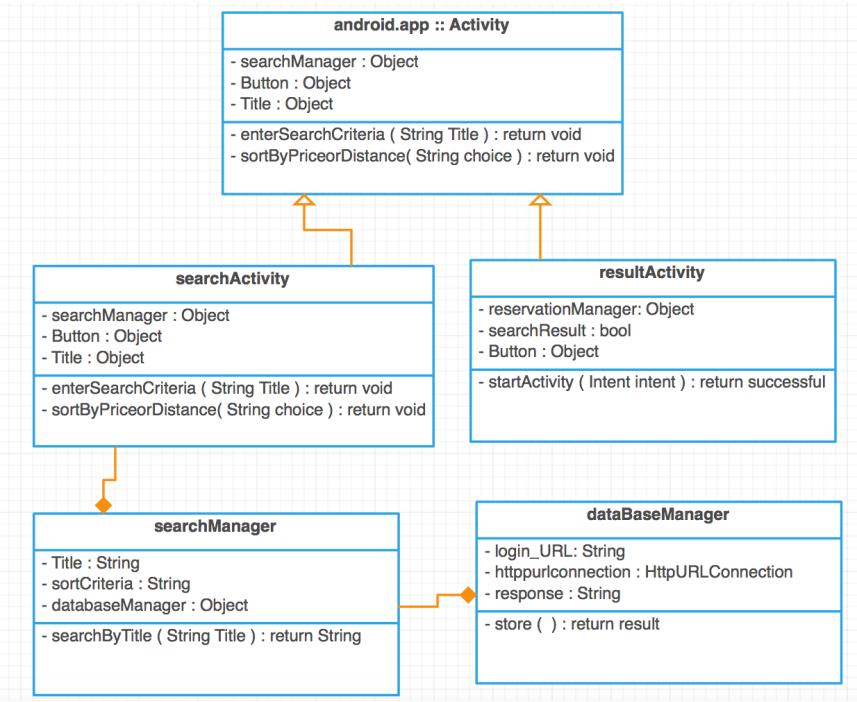


Activity Diagram:



User Interactions:

For this assignment, we are presenting the interaction of search books.



Class Diagram: