e Book Shop

Use-Case Diagram

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Our sub-systems:

- 1. Book Inventory System
- 2. Order and Delivery System
- 3. Post Delivery Management
- 4. Employee Management
- 5. User and Branch Review System

Actors of Information System:

- User
- Main Branch
- Branch Database Manager
- Branch Manager
- Branch Order Manager
- Branch Delivery Manager
- Staff
- Publisher

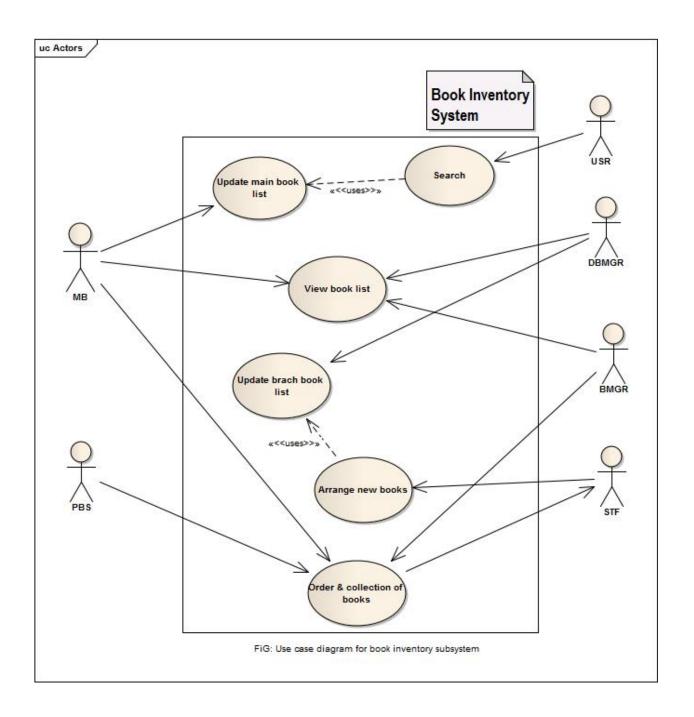
Actors Glossary

Actor	Short-key	Activity Scope
User	USR	Register in the system, place order, review on book & branch
Main Branch	MB	Control branches, contact with publisher and order for new books, update main book list, appoint staff
Branch Database Manager	DBMGR	Maintain book and employee database
Branch Manager	BMGR	Distribute works among employees, maintain payment & bonus of employees, approve user review, contact with publisher for new books
Branch Order Manager	BOMGR	Take book order from branch manager, search book inventory for ordered book
Branch Delivery Manager	BDMGR	Maintain book delivery process
Staff	STF	Book arrangement and delivery, collect new books from publisher
Publisher	PBS	Provide available books
Book Inventory System	BIS	Holds whole book information

1. Book Inventory System

Use-Case Glossary:

Use-case ID > Name	Description	Participant Actors and roles
1.1>Order and Collection	Contact with publisher, order for new books and collect books from them	BMGR, MB, PBS, STF BMGR contacts with MB, MB orders PBS, PBS will provide book and STF will get book to shop
1.2> Arrange New Books	Book arrangement in branch inventory	STF will arrange book in a systematic way
1.3> Update Branch Book List	Book list is updated according to new arrival of books	BDMGR will update book database
1.4> View Book List	Book list is viewed	BDMGR, MB, BMGR
1.5> Update Main Book List	Main book list is updated according to the update information of several branches	MB
1.6> Search	Search for books	USR



1.1 Order and Collection

(Use-Case Narrative)

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	1.1
Priority	High
Primary Business Actor	Branch Manager(BMGR)
External Receiver Actor	Main Branch(MB)
Description	Contact with publisher, order
	for new books and collect
	books from them
Trigger	Branch Manager(BMGR)

Typical Course of Events

Actor Action	System Response
Step1. BMGR contacts with MB	Step2. Notify MB
Step3. MB orders PBS	Step4. Collect new books

Documentation of the use-case 1.1

o Conclusion:

Concludes when staff collect ordered books from publisher to particular branch.

o Post-condition:

Branch collects and arranges new books.

o Implementation Issues:

Implemented via mail or phone call.

1.2 Arrange New Books

(Use-Case Narrative)

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	1.2
Priority	High
Primary Business Actor	Staff(STF)
External Receiver Actor	
Description	Book arrangement in branch
	inventory
Trigger	Staff(STF)

Typical Course of Events

Actor Action	System Response
Step1. STF arranges books in a	Step2. Branch book Inventory
systematic way	updated

Documentation of the use-case 1.2

o Conclusion:

Concludes when publisher gets order by main branch.

o Post-condition:

Publisher will provide books.

o Implementation Issues:

Implemented via staff.

1.3 Update Branch Book List

(Use-Case Narrative)

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	1.3
Priority	High
Primary Business Actor	Branch Database
	Manager(BDMGR)
External Receiver Actor	BMGR
Description	Book database is updated
	according to new arrival of
	books
Trigger	BDMGR

Typical Course of Events

Actor Action	System Response
Step1. BDMGR updates book	Step2. Branch book list is
database	updated

Documentation of the use-case 1.3

o Conclusion:

Concludes when database updated.

o Post-condition:

Updated book list can be viewed.

Implementation Issues:

Database management.

1.4 View Book List

(Use-Case Narrative)

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	1.4
Priority	Low
Primary Business Actor	MB, BMGR, DBMGR
External Receiver Actor	Main Branch(MB)
Description	Book list is viewed
Trigger	Branch Manager(BMGR)

Typical Course of Events

Actor Action	System Response
Step1. BDMGR, BMGR, MB	Step2. Branch book list is
want to view book list	provided

Documentation of the use-case 1.4

o Conclusion:

Concludes when book list is showed.

o Post-condition:

Branch book list is provided to main branch.

o Implementation Issues:

Graphical User Interface will be provided in the system software to be viewed.

1.5 Update Main Book List

(Use-Case Narrative)

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	1.5
Priority	High
Primary Business Actor	Main Branch(MB)
External Receiver Actor	USR
Description	Main book list is updated
	according to the update
	information of several
	branches
Trigger	Main Branch(MB)

Typical Course of Events

Actor Action	System Response
Step1. MB updates main book	Step2. Main book list is
list	updated

Documentation of the use-case 1.5

o Conclusion:

Concludes when main book list is updated.

Post-condition:

Main book list can be viewed by everyone.

o Implementation Issues:

Graphical User Interface (Website) will be provided in the system software to be viewed.

1.6 Search

(Use-Case Narrative)

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	1.5
Priority	High
Primary Business Actor	USR
External Receiver Actor	
Description	Search for books according to
	book title or different
	categories
Trigger	USR

Typical Course of Events

Actor Action	System Response
Step1. USR searches for	Step2. Desired book
desired book by title, author or	information is showed
different categories.	according to search option if
	found.

Documentation of the use-case 1.6

o Conclusion:

Concludes when user finds his desired information.

o Post-condition:

Order or review may be occurred.

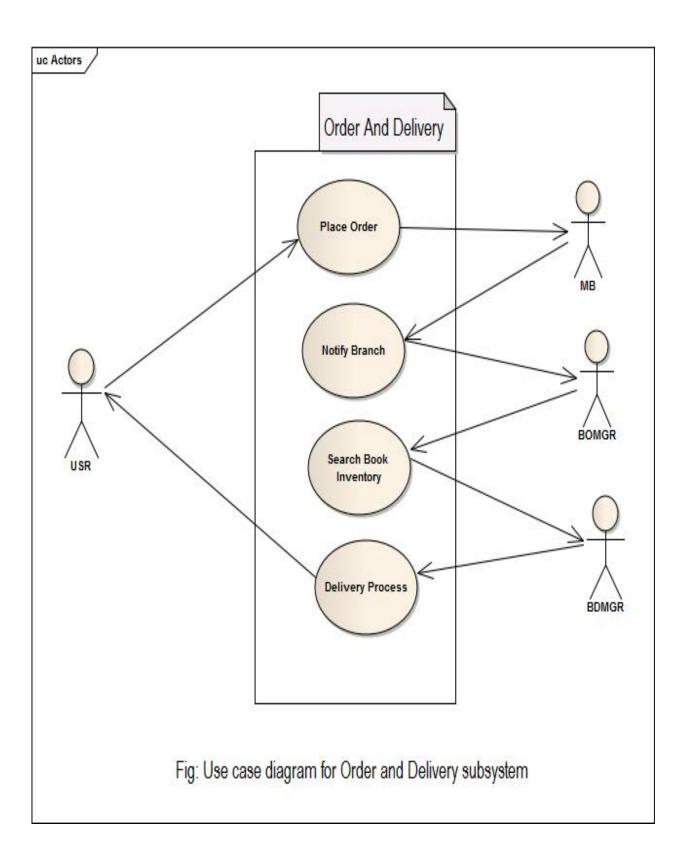
o Implementation Issues:

Database management.

2. Order and Delivery System

Use-Case Glossary:

Use-case ID > Name	Description	Participant Actors and roles
2.1>Place Order	An order is placed for a book by customer	USR, MB USR orders for book, MB accepts & process order
2.2> Notify Branch	Particular branch is notified when a order is placed	MB, BOMGR MB notifies corresponding branch according to USR info
2.3> Search Book Inventory	Book inventory is searched according to the order	BOMGR
2.4> Delivery Process	Ordered book is delivered to the customer	BDMGR, USR BDMGR delivers the book to USR



2.1 Place Order

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	2.1
Priority	High
Primary Business Actor	USR
External Receiver Actor	MB
Description	An order is placed for a book
	by customer
Trigger	USR

Typical Course of Events

Actor Action	System Response
Step1. USR places an order	Step2. System notifies Main
	Branch(MB)

Documentation of the use-case 2.1

o Conclusion:

Concludes when main branch receives order from system.

o Post-condition:

According to users address corresponding branch is selected and branch order manager is notified.

o Implementation Issues:

Graphical User Interface (Website) will be provided in the system software to be viewed to user to get order.

2.2 Notify Branch

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	2.2
Priority	High
Primary Business Actor	MB
External Receiver Actor	BOMGR
Description	Particular branch is notified
	when a order is placed
Trigger	MB

Typical Course of Events

Actor Action	System Response
Step1. MB informs system to	Step2. Order is sent to BOMGR
notify BOMGR	

Documentation of the use-case 2.2

o Conclusion:

Concludes when branch order manager receives the order.

o Post-condition:

Searches in branch book inventory for ordered book.

o Implementation Issues:

Branch book inventory system.

2.3 Search Book Inventory

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	2.3
Priority	High
Primary Business Actor	BOMGR
External Receiver Actor	BDMGR
Description	Book inventory is searched
	according to the order
Trigger	BOMGR

Typical Course of Events

Actor Action	System Response
Step1. BOMGR searches for	Step2. Gives information of
ordered book.	the book from book inventory.
Step3. BOMGR notifies	Step4. BDMGR is notified to
BDMGR for delivery.	initiate delivery process.

Documentation of the use-case 2.3

o Conclusion:

Concludes when branch delivery manager does have the task.

Post-condition:

Branch delivery manager initiates delivery process.

o Implementation Issues:

A software application including GUI and database.

2.4 Delivery Process

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	2.4
Priority	High
Primary Business Actor	BDMGR
External Receiver Actor	USR
Description	Ordered book is delivered to
	the customer
Trigger	BDMGR

Typical Course of Events

Actor Action	System Response
Step1. BOMGR assigns STF to	N/A
deliver book to USR.	
Step2. STF delivers book to	N/A
USR.	
Step3. STF confirms the	Step4. BDMGR gets notified.
delivery.	

Documentation of the use-case 2.4

o Conclusion:

Concludes when user gets his ordered books.

o Post-condition:

Assigned staff confirms transaction information.

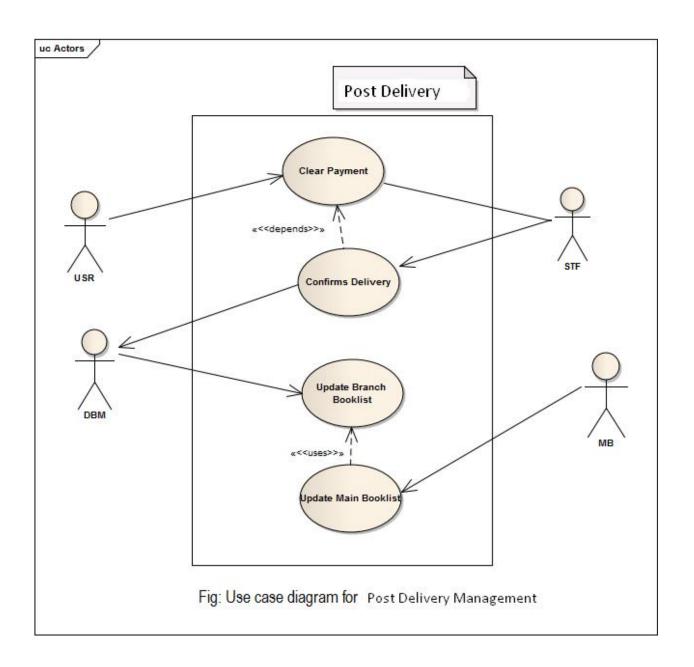
o Implementation Issues:

Graphical User Interface (Website) will be provided in the system software to be viewed to user to get order.

3. Post Delivery Management

Use-Case Glossary:

Use-case ID > Name	Description	Participant Actors and roles
3.1>Clear Payment	Book payment is cleared.	USR, STF USR pays for his book to the STF
3.2> Delivery Confirmation	Confirmation of delivery after payment	STF, DBMGR STF confirms the transaction to DBMGR
3.3> Update Branch Book List	Branch book list is updated after delivery confirmation	DBMGR Updates the branch book inventory
3.4> Update Main book List	Main book list is updated according to the particular branch book update	MB Updates main book list



3.1 Clear Payment

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	3.1
Priority	High
Primary Business Actor	USR
External Receiver Actor	STF
Description	Book payment is cleared.
Trigger	USR

Typical Course of Events

Actor Action	System Response
Step1. USR clears the payment	N/A
to STF.	

Documentation of the use-case 3.1

o Conclusion:

Concludes when staff gets payment.

o Post-condition:

Staff confirms delivery.

o Implementation Issues:

Transportation and human effort.

3.2 Delivery Confirmation

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	3.2
Priority	High
Primary Business Actor	STF
External Receiver Actor	DBMGR
Description	Confirmation of delivery after
	payment
Trigger	STF

Typical Course of Events

Actor Action	System Response
Step1. STF confirms delivery	Step2. Notifies DBMGR

Documentation of the use-case 3.2

o Conclusion:

Concludes when DBMGR gets notification from system.

o Post-condition:

Book inventory system database initiates update.

o Implementation Issues:

Gets confirmation via phone call.

3.3 Update Branch Book List

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	3.3
Priority	High
Primary Business Actor	DBMGR
External Receiver Actor	
Description	Branch book list is updated
	after delivery confirmation
Trigger	DBMGR

Typical Course of Events

Actor Action	System Response
Step1. DBMGR updates	Step2. Branch book database
database of branch book list.	updated.

Documentation of the use-case 3.3

o Conclusion:

Concludes when branch book inventory is updated.

Post-condition:

Branch is prepared to notify main branch for updating main book inventory.

o Implementation Issues:

Through the modification of database.

3.4 Update Main Book List

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	3.4
Priority	High
Primary Business Actor	MB
External Receiver Actor	BIS
Description	Main book list is updated
	according to the particular
	branch book update
Trigger	MB

Typical Course of Events

Actor Action	System Response
Step1. MB updates main book	Step2. Main book list is
database.	modified.

Documentation of the use-case 3.4

o Conclusion:

Concludes when main book list is updated.

Post-condition:

Modified book list information is now available to all classes actors.

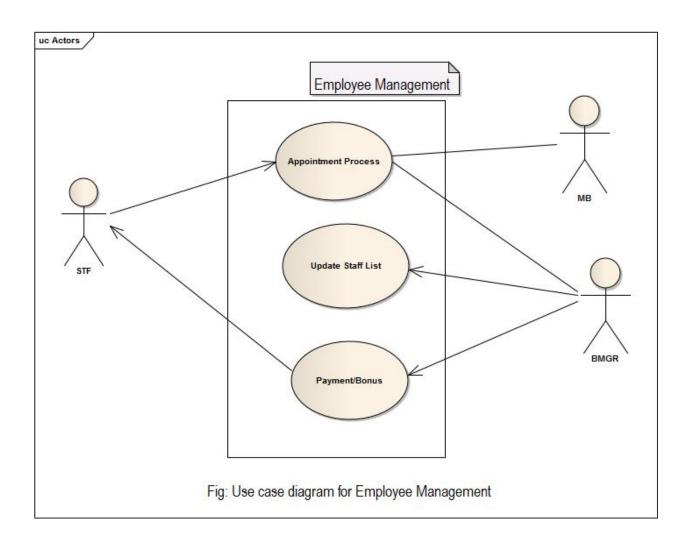
o Implementation Issues:

Through the modification of database.

4. Employee Management

Use-Case Glossary:

Use-case ID > Name	Description	Participant Actors and roles
4.1>Appointment Process	STF gets appointed	STF, BMGR, MB STF applies for job, BMGR creates list of applicants, MB selects STF
4.2> Update Staff List	STF list gets updated	BMGR Adds new staffs information in database
4.3> Payment/ Bonus	Management of monthly payment and bonus for the staffs of a particular branch	BMGR, STF BMGR provides payment and bonus to STF



4.1 Appointment Process

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	4.1
Priority	High
Primary Business Actor	STF
External Receiver Actor	MB
Description	STF gets appointed
Trigger	STF

Typical Course of Events

Actor Action	System Response
Step1. Applicant applies for	Step2. Selects job applicants.
job.	
Step3. BMGR selects	Step4. Prepares STF list.
appointed STF.	

Documentation of the use-case 4.1

o Conclusion:

Concludes when appointed staff list finalized.

o Post-condition:

New appointed staffs are about to join the field.

o Implementation Issues

Through interview.

4.2 Update Staff List

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	4.2
Priority	High
Primary Business Actor	BMGR
External Receiver Actor	
Description	STF list gets updated
Trigger	BMGR

Typical Course of Events

Actor Action	System Response
Step1. BMGR updates STF list.	Step2. Updated STF list is
	available.

Documentation of the use-case 4.2

o Conclusion:

Concludes when staff list updated.

o Post-condition:

Updated staff list is available.

o Implementation Issues

Through database.

4.3 Payment/ Bonus

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	4.3
Priority	High
Primary Business Actor	BMGR
External Receiver Actor	STF
Description	Management of monthly
	payment and bonus for the
	staffs of a particular branch
Trigger	BMGR

Typical Course of Events

Actor Action	System Response
Step1. BMGR forward payment	Step2. Provides payment and
and bonus information of STF.	bonus to STF.

Documentation of the use-case 4.3

o Conclusion:

Concludes when staff gets payment and bonus.

o Post-condition:

Employees have got payment and bonus.

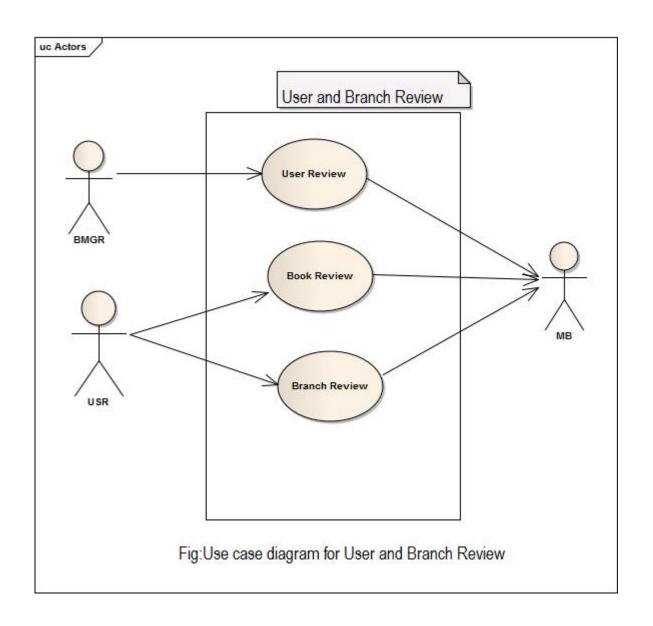
o Implementation Issues

Through Graphical User Interface and database.

5. User and Branch Review System

Use-Case Glossary:

Use-case ID > Name	Description	Participant Actors and roles
5.1>User Review	Branch gives review about a particular USR	USR, BMGR
5.2> Book Review	Review is given on a particular book	USR, MB
5.3> Branch Review	According to branch services USR gives review about corresponding branch	USR, MB



5.1 User Review

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	5.1
Priority	Medium
Primary Business Actor	BMGR
External Receiver Actor	MB
Description	Branch gives review about a
	particular USR
Trigger	BMGR

Typical Course of Events

Actor Action	System Response
Step1. BMGR comments on a	Step2. Review is uploaded to
user according to his/ her	website.
behavior.	

Documentation of the use-case 5.1

o Conclusion:

Concludes when main branch gets information about user.

o Post-condition:

Users profile including branch review is available in website.

o Implementation Issues

Through website.

5.2 Book Review

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	5.2
Priority	Medium
Primary Business Actor	USR
External Receiver Actor	MB
Description	Review is given on a particular
	book
Trigger	USR

Typical Course of Events

Actor Action	System Response
Step1. USR comments on a	Step2. In book inventory
particular book according to	system information about that
his/ her interest.	book is updated.

Documentation of the use-case 5.2

o Conclusion:

Concludes when user gives review about book.

o Post-condition:

Reviews of several users on particular book is available through website.

o Implementation Issues

Through book inventory database and website.

5.3 Book Review

Use-Case Narrative

USE CASE NAME	DEFINE ROUTE AND PRICE
USE CASE ID	5.3
Priority	Medium
Primary Business Actor	USR
External Receiver Actor	MB
Description	According to branch services
	USR gives review about
	corresponding branch
Trigger	USR

Typical Course of Events

Actor Action	System Response
Step1. USR comments on a	Step2. In branch database
particular branch according to	information given by user is
braches service.	stored.

Documentation of the use-case 5.3

Conclusion:

Concludes when user gives review about branch.

o Post-condition:

Reviews of several users on particular branch is available through website.

o Implementation Issues

Through book inventory database and website.