OOAD_Homework_04_Group1

Q1

IDENTIFY CLASS :

RAW CLASS :

User	User	book	book	library	author	email	member	membership
User	User	book	book	system	admin	email	member	membership
User	User	book	book	system	admin	email	member	membership
User	User	book	book	system	admin	email	member	visa card
User	User	book	library	system	waiting list	email	member	
User	book	book	library	system	history records	personal email	member	

Q2

REFIND CLASS :

REMOVE DUPLICATE :

User	admin	membership
Book	waiting list	visa card
Library system	history record	
System	email	
author	member	

AFTER ELIMINATING IRELEVANT CLASS :

User	admin
Book	waiting list
Library system	history record
system	membership
author	email
member	

Reviewing the redundant classes and building a common vocabulary

Library system, system => Library system

User	admin	history record
Book	email	membership
Library system	member	
author	waiting list	

Combining some classes, or split them into some other classes.

Reviewing possible attributes.

User	member
Book	
Library system	
admin	
email	

Analyzing Adjectives Classes

member inherit from User

Q3

Identify Responsibilities

Book :

RESPONSIBILITIES	COLABORATION
Id	
Title	
author	
insert book	
remove book	
search book	

Library :

RESPONSIBILITIES	COLABORATION
id	
branch	
address	
borrow book	
return book	
remove user	user
renew membership	

User :

RESPONSIBILITIES	COLABORATION
Id	
Name	
Gender	
Email	
Phone Number	
Borrow book	Library
Return book	Library
Search book	Book
view history record	

Admin :

RESPONSIBILITIES	COLABORATION
id	
Name	
Gender	
Email	
PhoneNumber	
insert book	Book
remove book	Book
remove user	User

Email :

RESPONSIBILITIES	COLABORATION
Subject	
Content	
Recipient	
Send email	

member : (INHERIT FROM)

RESPONSIBILITIES	COLABORATION
id	User
Name	User
Gender	User
Email	User
Phone Number	User
Borrow book	Book
Return book	Book
Search book	Book
View history record	User
renew membership	Library