

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 irrelevant 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 :

(none)

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 renew membership	user
User :	RESPONSIBILITIES	COLABORATION
	Id Name Gender Email Phone Number Borrow book Return book Search book view history record	Library Library Book
Admin :	RESPONSIBILITIES	COLABORATION
	id Name Gender Email PhoneNumber insert book remove book remove user	Book Book User
Email :	RESPONSIBILITIES	COLABORATION
	Subject Content Recipient Send email	
member : (INHERIT FROM USER)	RESPONSIBILITIES	COLABORATION
	id Name Gender Email Phone Number Borrow book Return book Search book View history record renew membership	User User User User User Book Book Book User Library