

1-2: CRC cards

Class: System	
Responsibilities	Collaborators
Start up software program	
Shutdown software program	

Class: SystemDatabase	
Responsibilities	Collaborators
Provide the Customer object that matches the Customer phone number	
Provide the Copy object that matches the copy ID	
Save	

Class: Console	
Responsibilities	Collaborators
Display a prompt, accepts information	
Displays a string	

***** Controller Class *****

Class: IssueCopy	
Responsibilities	Collaborators
Get customer phone number and copy ID	Console
Create rent object with corresponding Customer object and Copy object	SystemDatabase, Rent
Get and display description of the item, charge, and due date or next payment date	Copy, Rent, Console
Get and display total charge	Rent, Console

Class: ReturnCopy	
Responsibilities	Collaborators
Get copy ID	Console
Set checkout status to “on shelf”	Copy

Class: RecordPayment	
Responsibilities	Collaborators
Get copy ID	Console
Create new payment object	Payment
Get and display the next due date for monthly payment or the return	Rent, Console

Class: GetStatus	
Responsibilities	Collaborators
Get copy ID	Console
Get item description, checkout status	Copy
If checkout status is rented, then get and display renter's name and next due date for monthly payment or return	Copy, Rent, Console

Class: SaveDatabase	
Responsibilities	Collaborators
Save database	SystemDatabase

***** Entity Classes *****

Class: Copy	
Responsibilities	Collaborators
Get item information	RentableItem, RegularItem, RentToOwnItem
Modify checkout status	
Get checkout status	
Get rent object	

Class: RentableItem	
Subclass : RegularItem, RentToOwnItem	
Responsibilities	Collaborators
Report description of an item	RegularItem, RentToOwnItem

Class: RegularItem	
Superclass : RentableItem	
Responsibilities	Collaborators
Get rental charge	
Get rental period	

Class: RentToOwnItem	
Superclass : RentableItem	
Responsibilities	Collaborators
Get monthly payment	
Get number of payments needed to own the item	

Class: Rent	
Responsibilities	Collaborators
Calculate due date or next payment due date	Payment, Copy
Calculate total charge owed	Copy
Get renter's name	

Class: Payment	
Responsibilities	Collaborators
Set the payment date	
Record total charge owed on the payment date	Rent