Method returnItem(copy:Copies):void from Class Copies:

The purpose of this method is to update the status of a copy record. It will run within the Copies class and access the ResourceRequests table.

The method searches the ResourceRequests table for the records associated with the unique copyID. CopyID will be available from the parameter copy (of type Copies) by the public/protected method getCopyID().It will select the last record with an issueDate set and update it’s returnDate field to today’s date. A fine will be issued if necessary. If the view set has a “next record” (meaning there is a pending request), set the next record’s dueDate to today.

Method requestItem(copyID:int, user:User):void from Class Copies:

The purpose of this method is to update the status of a copy record. It will run within the Copies class and access the ResourceRequests table.

The method searches the ResourceRequests table for the records associated with the unique copyID. If the last record in the view set has the returnDate set, create a new record and set it’s issueDate as today and dueDate as null. If the last record in the view set doesn’t have a dueDate set, update it to the minimum length specified by the copies duration attribute.

Method collectItem(copyID:int, user:User):void from Class Copies:

The purpose of this method is to update the status of a copy record. It will run within the Copies class and access the ResourceRequests table.

The method searches the ResourceRequests table for the records associated with the unique copyID. If the last record in the view set has not passed it’s dueDate and the requesting user is the correct one, set the issueDate as today. Moreover, if the view set has a “next record” (meaning there is a pending request), set the dueDate to the minimum loan duration.

Method housekeeping():void from Class Copies:

The purpose of this method is to update the status of an uncollected copy. It will constantly run within the Copies class and access the ResourceRequests table.

The method keeps track of all the due dates of all the copies, by comparing their dueDate attribute with today’s date. If the dueDate has expired(is smaller than today’s date) and there is no issueDate (as it is therefore an expired collection). Before it selects the next request record (if there is one) and set it’s dueDate to today.