

Class Diagram Iteration 2

LibraryController
<pre>viewBook(mid:long, bd:BookDisplay):void b:=isMediaCheckedOut(mid:long, err:Error):boolean f:=calculateMediaLateFee(mid:long, err:ErrorContainer): float err:=payMediaLateFee(mid:long, amount:float)Error.Success blist:=SearchBooks(field:enum,searchString:string):List<Book> utype:=validate(uid: string, pass:string):UserType logout(u: User):void</pre>

Library
<pre>viewBook(mid:long, bd:BookDisplay):void b:=isMediaCheckedOut(mid:long, err:Error):boolean f:=calculateMediaLateFee(mid:long, err:ErrorContainer): float err:=payMediaLateFee(mid:long, amount:float)Error.Success blist:=SearchBooks(field:enum, searchString:string):List<Book> utype:=validate(uid: string, pass:string):UserType logout(u: User):void</pre>

CheckoutCard
<pre>b:=isCheckedOut():boolean payLateFee(amount:float):void</pre>

ErrorContainer
<pre>setError(e:Error.MediaNotFound):void err := getError():ErrorCode</pre>

LateFeeCalculator
f:=calculateMediaLateFee(m: MediaType, cc:CheckoutCard, lp: LatePolicy): float b:=amountIsAppropriate(mt:MediaType, cc:CheckoutCard, lp:LatePolicy, amount:float):boolean

User
uname:string pass:string
utype:=validate(uname:string, pass:string):enum

DatabaseSupport
m:=getMediaType(mid: long): Media cc:=getMostRecentCheckoutCardForMedia(mid: long): CheckoutCard lp:=getLatePolicy():LatePolicy blist:=SearchBooks(field: enum, searchString: string):List<Book> u:=getUser(uid:string):User