

moveRentv1(OD)

moveRentv2(CD)



moveRentv2(OD)

moveRentv2(SD)

moveRentv1.use

-This is a USE model of the first design of a movie rental system

model MovieRental

class Customer

attributes

name:String

operations

addRental()

getName()

Statement()

end

class Rental

attributes

daysRented:Integer

operations

getDaysRented()

getMovie()

end

class Movie

attributes

title:String

priceCode:Integer

operations

getPriceCode()

setPriceCode()

getTitle()

end

association custRentals between

Customer[1] role renter

Rental[0..\*] role rentals

end

association movRental between

Rental[0..\*] role movRentals

Movie[1] role movie

End

moveRentv2.use

--This is a USE model of the first design of a movie rental system

model MovieRental

enum PriceCode {regular, family, newRelease}

class Customer

attributes

name:String

operations

addRental()

getName()

Statement()

begin

declare m:Movie;

for ren in self.rentals do

ren.getDaysRented();

m := ren.getMovie();

m.getPriceCode();

m.getTitle();

end

end

end

class Rental

attributes

daysRented:Integer

operations

getDaysRented() : Integer

begin

result := self.daysRented

end

getMovie(): Movie

begin

result := self.movie

end

end

class Movie

attributes

title:String

priceCode:Integer

operations

getPriceCode() : Integer

begin

result := self.priceCode

end

setPriceCode()

getTitle() : String

begin

result := self.title

end

end

association custRentals between

Customer[1] role renter

Rental[0..\*] role rentals

end

association movRental between

Rental[0..\*] role movRentals

Movie[1] role movie

End

mr\_cmds-v1.x

-- read C:\Users\Dan Poss\Documents\Senior Year\Advanced Software Engineering\Homework1\mr\_cmds-v1.x

-- NOTE: USE THE FULL PATH NAME TO THIS FILE

-- This file creates 1 customer, 2 movies, and 2 rentals. It sets up

-- associations between them, and finally calls the Statement() method

-- for the customer.

!create c1:Customer

!create m1:Movie

!create r1:Rental

!set m1.priceCode := PriceCode::regular

!set m1.title := 'Movie1'

!set r1.daysRented := 5

!insert (c1,r1) into custRentals

!insert (r1,m1) into movRental

!create m2:Movie

!create r2:Rental

!set m2.priceCode := 2

!set m2.title := 'Movie2'

!set r2.daysRented := 3

!insert (c1, r2) into custRentals

!insert (r2, m2) into movRental

!c1.Statement()