Project 1 Class Diagram

0682523 Kuo Yang | May 30, 2020

Customer

- name: String
-rental: List

+ getName(): String
+ addRental(Rental rental_obj): void
+ statement(): String
+ htmlStatement(): String
+ statement(Report report): String

Class
ArrayList<Rental>

Rental

- movie: Moive
- daysRental: interger

+ getDaysRented(): interger
+ getMoive(): Movie
+ charge(): double
+ frequentRenterPoints(): interger
+ rentalLine(Report report): String

<<interface>>
Report

+ headerLine(String name): String
+ footerLine(double totalAmount, int frequentRenterPoints): String
+ rentalLine(int daysRented, String title, double charge): String

HtmlReport

+ headerLine(String name): String
+ footerLine(double totalAmount, int frequentRenterPoints): String
+ rentalLine(int daysRented, String title, double charge): String

TaxReport

+ headerLine(String name): String
+ footerLine(double totalAmount, int frequentRenterPoints): String
+ rentalLine(int daysRented, String title, double charge): String

Movie

+ CHILDRENS: int
+ REGULAR: int
+ NEW_RELEASE: int
- title: String
- priceCode: interger
- attribute3:type

+ getPriceCode(): int
+ setPriceCode(int priceCode): void
+ getTitle(): String
+ charge(int daysRented): double
+ isNewRelease(): boolean
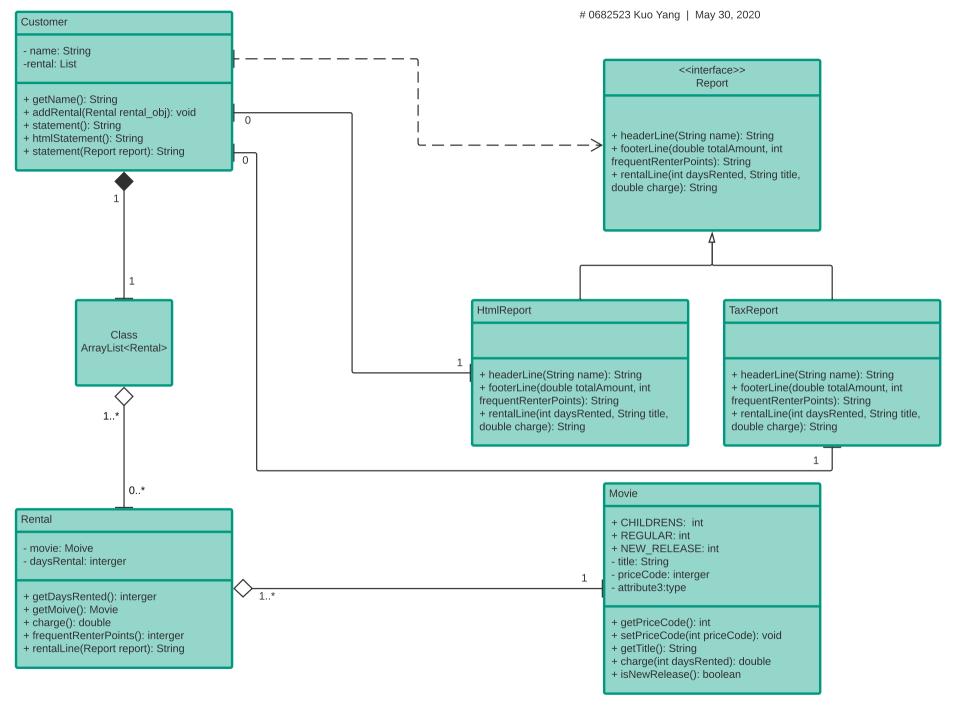
Class Diagram

1. Both HtmlReport and TaxReport Class implements Report Interface

2. Customer object can have only 1 HtmlReport object and 1 TaxReport object

3. Customer object have 1 ArrayList object and this ArrayList object forms only 1 Customer object

4. ArrayList object can have 0 to many Rental objects and Rental object can form 1 to many ArrayList objects

5. Rental object can have only 1 Movie object and 1 Movie object can from 1 to many Rental objects