Movie Theatre

Class & Methods

**Customer Class**

O Function

Customer() constructor

getTickets()

setTickets(ArrayList<Ticket> tickets)

o Attributes

Tickets ( ArrayList<Ticket>)

**Movie Class**

O Function

Movie() constructor

getUniqueID()

getTitle()

setTitle(String title)

getDescription()

setDescription(String description)

getRuntime()

setRuntime(String runtime)

getShowtimes()

setShowtimes(ArrayList<Date> showtimes)

getPrice()

setPrice(double price)

getRating()

setRating(String rating)

o Attributes

title(String)

description (String)

runtime (String)

rating (String)

showtimes (ArrayList<Date>)

price (double)

uniqueID(integer)

**Ticket Class**

O Function

Ticket()constructor

getMovie()

setMovie(Movie movie)

getTicketType()

setTicketType(String ticketType)

getShowtime()

setShowtime(Date showtime)

o Attributes

movie (Movie)

ticketType(String)

showtime(Date)

MovieTheater Class

O Function

MovieTheater()constructor

MovieTheater()

run()

saveData()

getMovies()

displayMovieInfo(Movie m)

displayTodaysMovies()

displaysThisWeeksMovies()

getTodaysMovies()

getThisWeeksMovies()

loadMovies()

main(String[] args)

O Attributes

Movies (ArrayList<Movie>)

Customer (Customer)

Titles (File)

Descriptions (File)

Runtimes (File)

Showtime (File)

Prices (File)

Ratings (File)

primary driver class, constructor handles loading file system, saves file system on exit

Management Class

statically handles verifying manager password, adding and editing movies

O Function

Function()constructor

run(MovieTheater m)

verifyPassword()

addMovie(MovieTheater m)

editMovie(MovieTheater m)

O Attributes

None

PointOfSale Class

statically handles user selecting tickets to buy, payment method, adding them to customer account, and also handles showing customer’s previously purchased tickets

O Function

PointOfSale()constructor

purchaseTickets(MovieTheater mt, Customer c)

purchaseTicketForMovie(Movie m, Customer c)

ticketPayment(ArrayList<Ticket> t, Customer c)

printReceipt(ArrayList<Ticket> t, boolean usedCash)

viewPurchasedTickets(Customer c)

O Attributes

- none

\*\*\*Doing away with the Activity classes, moving functionality into MovieTheatre driver class and PointOfSale system\*\*\*

Screens/Activities

MainActivity

1. View Today’s Movies

2. View This Week’s Movies

3. Purchase Ticket

4. View Purchased Tickets

5. Exit

6. Manager Mode

Please select an option (ex. “2”)

ViewActivity (boolean today = true)

Today’s Movies:

The Thing, 07:30, 11:30, 14:30, 18:30, 20:30

Superman, 8:00, 12:00, 16:00, 20:00

1. Purchase Ticket

2. Go Back

Please select an option (ex. “2”)

ViewActivity (boolean today = false)

This Week’s Movies:

The Thing, 0/17, 0/18, 0/19, 0/20

Superman, 0/17, 0/18, 0/19

Captain Marvel, 0/20, 0/21, 0/23

1. Purchase Ticket

2. Go Back

Please select an option (ex. “2”)

PurchaseActivity

Select A Movie:

1. The Thing, 07:30, 11:30, 14:30, 18:30, 20:30

2. Superman, 8:00, 12:00, 16:00, 20:00

3. Go Back

Please select an option (ex. “2”)

->

The Thing

Select A Showtime:

1. 07:30

2. 11:30

3. 14:30

4. 18:30

5: 20:30

6. Go Back

Please select an option (ex. “2”)

PaymentActivity(Movie m, Showtime s)

Purchasing Tickets for The Thing at 14:30

Please Select Tickets:

1. Senior - 0

2. Adult - 0

3. Child - 0

4. Check Out

5. Go Back

Please select an option (ex. “2”)

->

Purchasing Tickets for The Thing at 14:30

Please Select Tickets:

1. Senior - 1

2. Adult - 2

3. Child - 0

4. Check Out

5. Go Back

Please select an option (ex. “2”)

->

Purchasing Tickets for The Thing at 14:30

1 Senior Ticket(s)

2 Adult Ticket(s)

0 Child Ticket(s)

Please Select Payment Method:

1. Cash

2. Credit

3. Go Back

Please select an option (ex. “2”)

->

Purchasing Tickets The Thing at 14:30 with Credit

1 Senior Ticket(s)

2 Adult Ticket(s)

0 Child Ticket(s)

Please Input Card Number:

->

Successfully Purchased Following Tickets for The Thing at 14:30

1 Senior Ticket(s)

2 Adult Ticket(s)

0 Child Ticket(s)

Paid with Credit

1. Return to menu

Please select an option (ex. “2”)

EnterManagerActivity

Entering Manager Mode (Attempt 1)

1. Go Back

2. Input Password

Please select an option (ex. “2”)

->

Input Password:

ManagerActivity

Manager Mode

1. Add Movie

2. Edit Movie

3. Enter Customer Mode

4. Exit Application

Please select an option (ex. “2”)

AddMovieActivity

Manager Mode

Adding Movie (Leave any field blank to cancel)

Enter Title:

Enter Description:

Enter Price:

(Format: “7.99”)

Enter Runtime:

(Format: “95”, “120”, “75”, etc)

Enter Rating:

(Format: “G”, “PG”, “PG-13”, “R”, “Unrated”)

Enter Showtimes:

(Format: 01/23/2019 [12:00, 14:00, 16:00, 18:00], 01/25/2019 [11:30, …] )

EditMovieActivity

Manager Mode

Enter Movie Title to Edit:

->

Movie Found

Enter Description:

Enter Price:

(Format: “7.99”)

Enter Runtime:

(Format: “95”, “120”, “75”, etc)

Enter Rating:

(Format: “G”, “PG”, “PG-13”, “R”, “Unrated”)

Enter Showtimes:

(Format: 01/23/2019 [12:00, 14:00, 16:00, 18:00], 01/25/2019 [11:30, …] )

ViewCustomerTicketsActivity

Your purchased tickets are:

The Thing at 14:30 on 3/18

Senior Ticket (1)

1. Go Back

Please select an option (ex. “2”)