

Type of System:

Our team has selected the movie theater management system.

Description:

Our movie theater program will start with the Staff members log in, to clock in for their shift. They will start their work day depending on the role of each member (cashier, custodian or managing the play times for each movie). The cashier would enter the customer name, choose movie, movie time, screen and seat, as well as any food or beverage the customer would want. The program would then print out the total and process payment (the user would click credit, debit etc). The program would store information about customer purchases. Manager accounts would give a breakdown on the staff/wage/position. Staff would be able to pull up daily breakdown and see daily purchases (what seats were sold.) and breakdowns on the movies.

Paola:

Customer: For the purpose of demonstrating the process of our movie theater management system; there will be four fictional customers.

- Darian Lopez
- Sophia Smith
- Amber Zul
- Nicholas Shaffer

Movie: There will be a mix of Romance, Dystopian, and children movies for the customers' selection.

Inheritance with Showtime Class

- Clueless.
- The Maze Runner.
- Divergent
- High School Musical
- Big Hero Six

Food and Beverage: Customers will have a choice between a selection of snacks and beverages, which will be processed and paid at the same place where they purchase their movie tickets.

Inheritance with Payment Class.

- Large and medium popcorn bags
- Large, Medium, Small Fountain Drink
 - Coca Cola
 - Dr Pepper
 - Mountain Dew
 - Sprite
- Blue and Red ICEE
- Twix

- Snickers
- Twisters
- M&Ms
- Nachos
- Pickles

Melissa:

Payment: The system ensures that all payment methods that are offered are working properly and charged correctly

- Represents: The different payment methods and different prices depending on age and time of day
- Attributes: Cash, Debit Cards, Credit Cards, Digital Wallets, Establishments gift cards;

Pricing of movie:

- Adult: \$8.00
- Children (Age Range: 1-12): \$6.00
- Seniors (60+): \$6.00
- Matinee (before 4:00 pm): \$6.00
- 3D surcharge: \$2.00

Showtime: The system ensures that a movie is available and the times it will show

- Represents: Movies that the theater has access to
 - Attributes: Movie, time(s), ratings, length of movie
 - Clueless
 - Time(s): 3:15 PM, 6:00 PM, 8:45 PM
 - Rating: PG-13
 - 1h 37m
 - The Maze Runner
 - Time(s): 3:00 PM, 5:15 PM, 9:45 PM
 - Rating: PG-13
 - 1h 53m
 - Divergent
 - Time(s): 2:15 PM, 4:45 PM, 9:45 PM
 - Rating: PG-13
 - 2h 19m
 - High School Musical
 - Time(s): 2:00 PM, 7:00 PM, 9:30 PM
 - Rating: G
 - 1h 38m
- Big Hero Six
- Time(s): 2:10 PM, 4:35 PM, 7:10 PM

- Rating: PG
- 1h 48m

Daily purchases: A summary of how many times a “product” goes “out”

- A daily “inventory” of what movie tickets were purchased at what price, what concession stand items, and by who

Taryn:

Staff: Represents employees who manage the operations of the movie theater. They will log in using their assigned names and passwords and from there will be able to use the system to sell tickets and concessions.

Custodians would be able to see what movies were playing and when. Unable to access the tabs to sell tickets/concessions

Manager staff member will be able to edit staff schedules, see who has sold tickets and logged in as well as manage pricing and tickets

- Attributes: staffID, name, role, shiftSchedule
 - Staff Members: - Cashiers
 - - Michael Carter
 - Username: Mic.Car
 - Password: Treehouse2
 - - Emma Reed
 - Username: Emm.Ree
 - Password: Sunflower45
 - - Ryan Jacobs
 - Username: Rya.Jac
 - Password: BlueSky12
 - Staff Members: Custodian
 - - Sarah Collins
 - Username: Sar.Col
 - Password: CoffeeTime8
 - - Daniel Foster
 - Username: Dan.Fos
 - Password: Mountain44
 - Staff Members: Managers
 - Lily Bennett
 - Username: Lil.Ben
 - Password: PastelDream9

- Jason Wells
 - Username: Jas.Wel
 - Password: Shadow99

Screen: The system ensures that the selected screen is available and not double booked.

- Represents Individual Screens within a movie theater
- Attributes: screenID, seatingCapacity, audioSystem, projectorType
 - Screen 1 - Surround Sound 3D Projector
 - Used for 3D Showings
 - Screen 2 - 7.1 Dolby Surround Sound 4K Laser Projector
 - Used for Major Blockbuster Releases
 - Screen 3 - 7.1 Surround Sound 2K Digital Projector
 - Typical Auditorium with standard digital projection and good audio quality
 - Screen 4 7.1 Surround Sound 2K digital Projector
 - Typical Auditorium with standard digital projection and good audio quality
 - Screen 5 7.1 Dolby Surround Sound 4K Laser Projector
 - Used for Major Blockbuster Releases

Seat: The system ensures that the selected screen is available and not double booked

- Represents individual seats in a screen
- Attributes: seatID, screen, row, number,
 - Rows; A-F
 - Seats: 1-13

SCREEN

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A x x x x x x x x x x x x x x
B x x x x x x x x x x x x x x
C x x x x x x x x x x x x x x
D x x x x x x x x x x x x x x
E x x x x x x x x x x x x x x
F x x x x x x x x x x x x x x
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