

# CS 234 Project

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Team 6 has selected the movie theater management system for their semester project. This system will include the nine following classes:

The system will allow the user to choose to enter as a customer or a staff member. In the former case they will be prompted for membership information, which movie they would like to see, at what time, and whether they would like concessions. After purchasing a ticket, there will also be an option to check one's ticket in case they would like to make modifications to it. In the latter case, they will be prompted to enter login information, and from there they can view sales reports, sold seats, and a list of all available movies and showtimes.

**Customer Class** - Represents how a customer interacts with the movie theater (e.g. purchasing tickets and browsing movies)

C.R.U.D : Modify personal details and membership

Search : Search for movie by title

**Staff Class** - Represents employees and allows them to manage the theater (e.g. managing showtimes and assisting customers)

C.R.U.D : Create or modify showtimes and customer records

Search : Search for showtimes by movie, search for membership info

Report : Creates a report of ticket sales for staff members.

**Master Class** - Represents an controller for all other classes and manages the flow between them

C.R.U.D : N/A

Search : N/A

**Movie Class** - Represents a specific film at the movies (e.g. can view details/rating along with info)

C.R.U.D : Add, update, or remove movies

Search : Search for movies based

Catalog : Catalog of movies

Screen Class - Represents the auditoriums where the movies will be shown (e.g. can assign show time plus see the available seat)

C.R.U.D : Add, update, or remove screen details

Payment Class - Represents the payments from customers for tickets (e.g. process payment, refund for canceling and details of payment.)

C.R.U.D : Update payments

Concession Class: Represents sales of food and drinks (i.e. popcorn, soda) to customers. This class checks to see if the buyer has already bought a ticket.

C.R.U.D : Modify concession menu

Report : Sales report of concessions for the day.

Showtime Class - Represents a catalog of specific times for movies (e.g. schedule and update showtimes and get available seats for a showtime)

C.R.U.D : Add, update, or remove showtimes

Search : Showtimes for a particular movies

Ticket Class - Represents an existing reservation that the user can view.

C.R.U.D : Modify ticket information