

Movie Theater Management System

The movie theater management system (MTMS) is designed to manage the operation of a movie theater. The MTMS will allow efficient management of different entities interacting with the theater, such as customer, staff, movie, screen, payment, showtime, and food stand. Given enough time, the project will also include additional functionalities such as an admin page, a login account form for members, and an inventory management system for the food stand.

Classes:

1. Customer: represents customers of the movie theater
2. Staff: represents employees working at the theater
3. Movie: represents the movie titles being shown at the theater
4. Screen: represents the physical screen in the theater
5. Payment: represents all payment-related operations
6. Showtime: represents specific showtime schedules of the movies
7. Food stand: represents the place that sells food and beverage inside the theater
8. Analytics: provides insights into the sales and revenue of the theater (can also generate reports)
9. Inventory: represents the inventory for the food stand (can generate report of available ingredients)