## ****Phase I: Problem Statement and Presentation****

### ****Project Title:****

**Movies Management System**

### ****Problem Definition:****

In the contemporary entertainment landscape, cinema operators often face critical challenges in managing core operations such as movie scheduling, ticket bookings, and customer engagement. Traditional or semi-automated systems are prone to human error, inefficiencies, and data fragmentation, which adversely impact customer satisfaction and operational efficiency. These systems lack integration, making it difficult to track show performance, monitor sales, or manage customer records in real-time.

The proposed **Movies Management System** seeks to eliminate these inefficiencies by offering an integrated, PL/SQL-powered Oracle database solution that automates and streamlines theater operations.

### ****Context:****

This system is designed for deployment in modern cinema theaters—both single-screen and multiplex environments. It will be used by administrative staff for scheduling and operations management, by sales clerks for real-time ticket booking, and by customers for querying movie availability. The system is applicable in commercial cinema venues, educational institutions with film clubs, and even community screening hubs.

### ****Target Users:****

**Cinema Administrators:** Manage showtimes, theaters, pricing, and staff access.

**Ticketing Staff:** Perform bookings, issue tickets, and track attendance.

**Customers:** View movies, showtimes, and book seats online or at the counter.

**Distributors/Film Agents:** Manage the lifecycle of movies available for screening.

**Project Goals:**

Design a robust, normalized database model to manage complex cinema operations.

Automate core functionalities such as movie scheduling, ticket booking, and seat assignment.

Ensure data integrity, security, and real-time access through PL/SQL procedures and packages.

Enable the generation of comprehensive reports for decision-making (e.g., movie performance, peak hours).

Implement auditing and access control to monitor staff activity and ensure operational compliance

### ****Presentation Slide Summary****

#### ****Slide 1: Project Overview****

**Problem:** Existing systems are fragmented, inefficient, and prone to errors.

**Objectives:**

Automate and streamline ticket sales and scheduling

Centralize data management

Improve decision-making with real-time analytics

#### ****Slide 2: Main Database Entities****

**Movie:** ID, title, duration, genre, language, rating

**Theater:** ID, name, location, capacity

**Show:** ID, movie ID, theater ID, show datetime

**Customer:** ID, name, contact info, booking history

**Ticket:** ID, show ID, customer ID, seat number, price

**Staff:** ID, name, role, login credentials

**Payment:** ID, booking ID, amount, payment method, timestamp

#### ****Slide 3: Anticipated Benefits****

Enhanced data accuracy and traceability

Real-time analytics for show optimization and pricing strategy

Improved user experience and reduced wait times

Scalable for future integration with mobile apps or third-party platforms

## References

Oracle 21c XE Documentation: [https://docs.oracle.com/en/database/oracle](https://docs.oracle.com/en/database/oracle" \t "_new)

AUCA Capstone Guidelines 2024–2025

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