SmartCine

Movie Theater Reservation System

By Xinyuan Zhao and Xiaoyang Fei

Introduction

SmartCine is an intuitive movie theater reservation system designed to enhance the movie-going experience for users and streamline administrative tasks for theater operators.

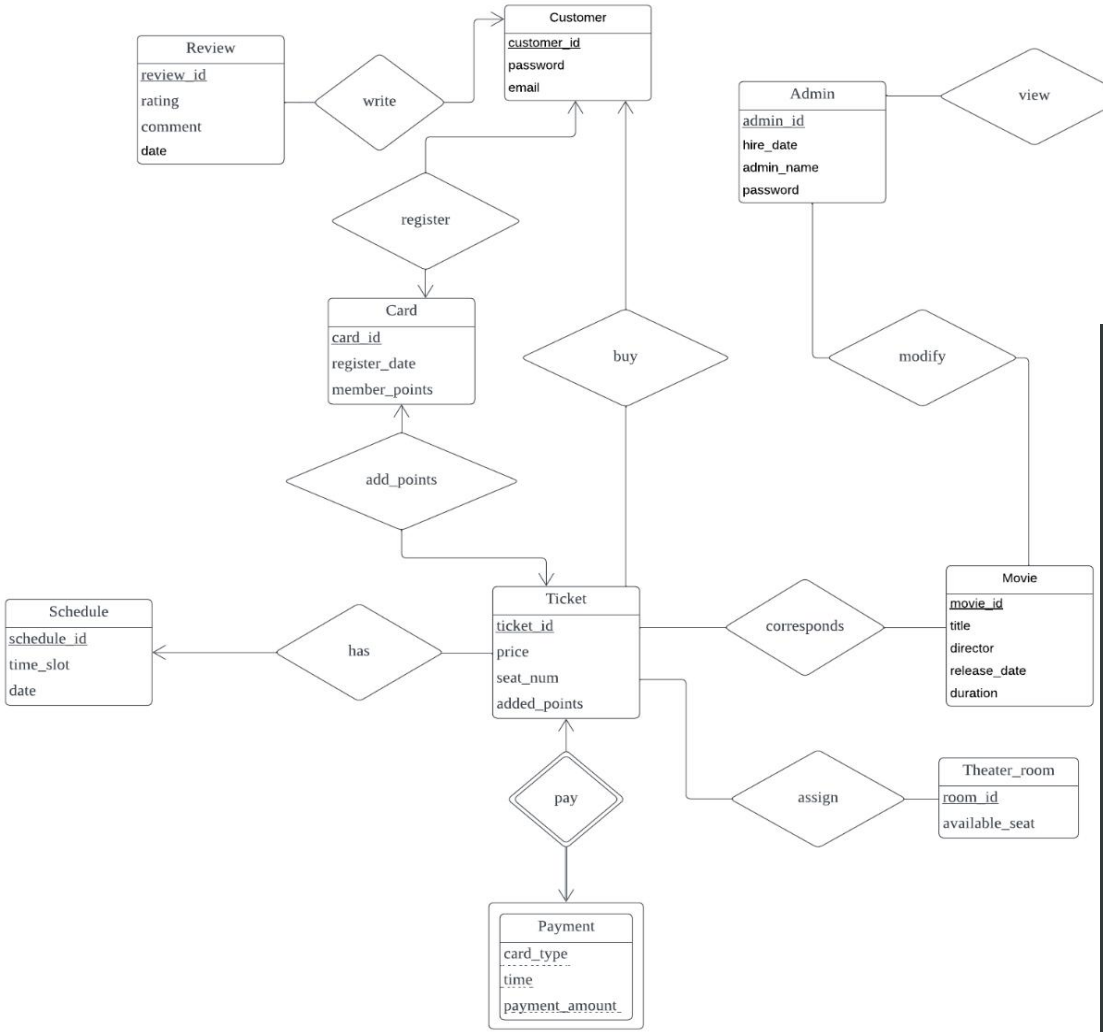
Our Team

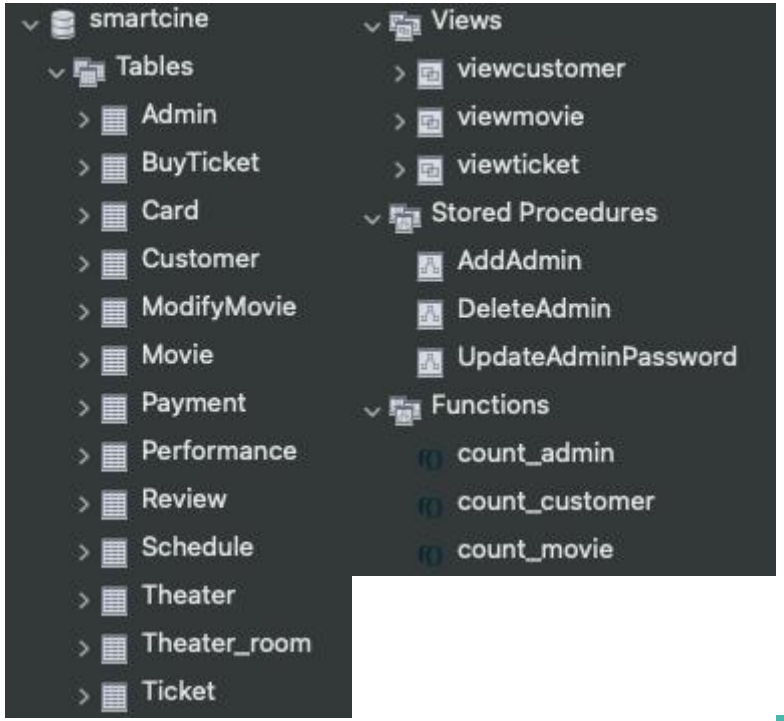
- Xinyuan Zhao:
  - Database design
  - Data analysis

- Xiaoyang Fei:
  - Front-end and Back-end system design
  - Data collection

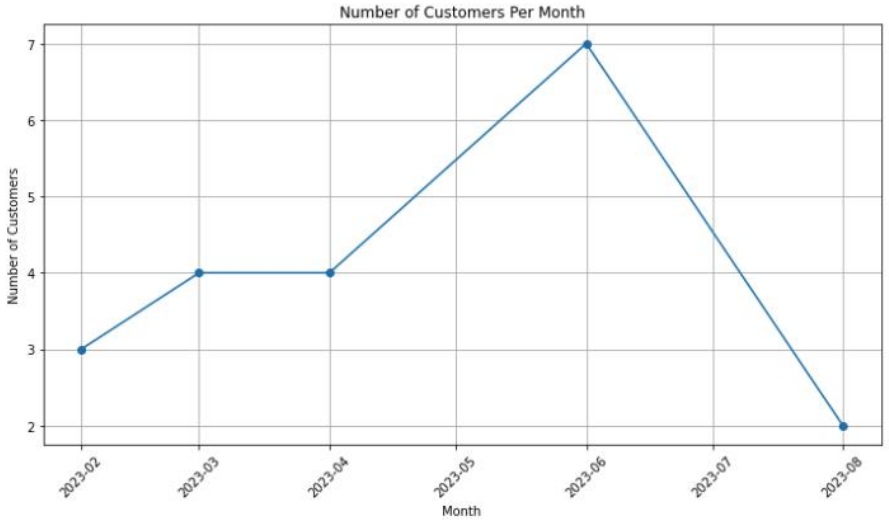
Data Sources and Tools

- Data Sources: https://www.kaggle.com/datasets/shivamb/netflix-shows/data
- Front-end: React, JavaScript, MUI, MUX
- Back-end: Python Flask, Axios, Router-DOM
- Database: MySQL


Review
review_id
rating
comment
date
write
Customer
customer_id
password
email
register
Card
card_id
register_date
member_points
buy
add_points
Admin
admin_id
hire_date
admin_name
password
view
Theater
theater_id
name
location
has
Performance
performance_id
month
year
num_of_viewers
revenues
modify
Schedule
schedule_id
time_slot
date
has
Ticket
ticket_id
price
seat_num
added_points
corresponds
Movie
movie_id
title
director
release_date
duration
pay
assign
Theater_room
room_id
available_seat
Payment
card_type
time
payment_amount

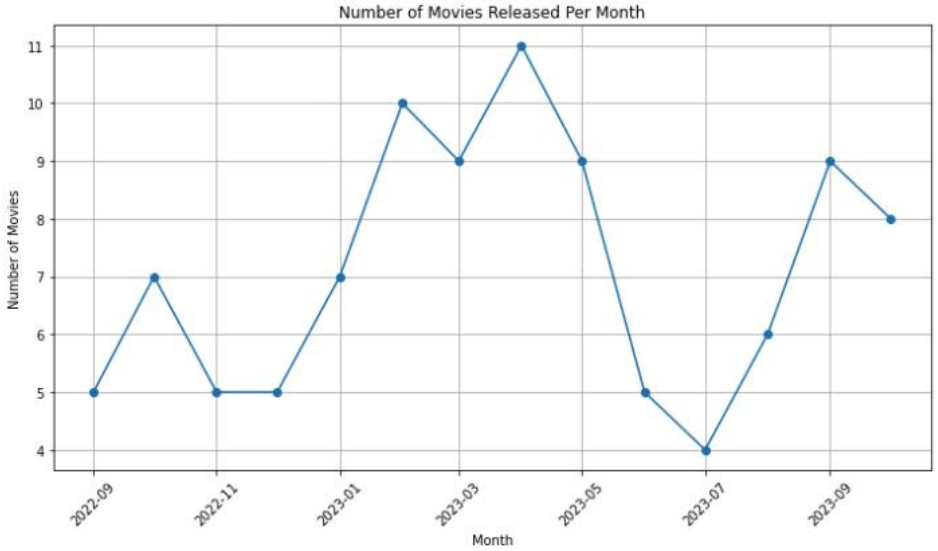

smartcine
Tables
Admin
BuyTicket
Card
Customer
ModifyMovie
Movie
Payment
Performance
Review
Schedule
Theater
Theater_room
Ticket
Views
viewcustomer
viewmovie
viewticket
Stored Procedures
AddAdmin
DeleteAdmin
UpdateAdminPassword
Functions
count_admin
count_customer
count_movie

Data exploration: Monthly Customer Visit Trends



- Customer behavior
- Peak times

Data exploration: Trends in Monthly Movie Releases



strategize
optimize scheduling

SmartCine in Action: System Demo

Questions?

Thank You for Your Attention!

We Appreciate Your Time and Interest in SmartCine.