

City University of Hong Kong

Department of Computer Science

CS3343 Software Engineering Practice

2024 - 25 Semester A

**CityU Cinema System**

**Release Summary**

**Group 2**

**Name SID**

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**Latest Release Note**

Product Name: CityU Cinema System

Version: V2 Final

Release Date: 16 November 2024

**Features**

The second release shows a significant upgrade to the first prototype release. It has now integrated proper user registration and log in functionalities, admin module, payment procedures and many other essential features of a cinema system. The following are some of the key features of this release:

User registration: Enables guest users to register an account

User log in: Enables existing users to log in to enjoy more functionalities

List movie sessions: In addition to showing the basic information of each movie, the listing of movie sessions differs in a way that further shows the scheduled sessions of each movie and seat booking status e.g. remaining seats left.

List snacks/drinks: Shows the available snacks and drinks

Admin module: Provides an array of management functionalities for admin such as add/delete users, add movies, including default movies for quick addition, schedule movies, add snacks and drinks, etc. Some other basic functions that are available to guests and logged in members are also available to admin users.

Movie ticket booking: Improved flow and usability of movie ticket booking

Snack/Drink Selection: Adds the functionality of allowing members to optionally select snacks and drinks after booking movie tickets

Payment module: Multiple payment methods and a dedicated payment mechanism to determine members’ payment success state

Shopping cart: Temporarily stores booked movie tickets and selected snacks and drinks

Payment records: Allows members to view their previous payment records

**Improvements**

Integration of three major components, including the user module, I/O module and payment modules, providing a more realistic and usable use case scenarios.

Improved movie ticket booking flow by showing all movie sessions at once and the interface displays of seats.

Provided a more comprehensive and realistic flow starting from movie ticketing, optional snacks and drinks selection, making payments to view payment records afterwards

Better exceptions handling and input format checking

**Bug Fixes**

Exception Handling: Added specific exceptions to handle certain invalid inputs

Search User: Fixed the issues of incorrectly displaying all user information instead of the matched user results

Case Sensitivity: Allowed certain commands to be case-insensitive i.e. can handle both lower-case or upper-case inputs

**Known Issues**

N/A

**Previous Release Note**

Product Name: CityU Cinema System

Version: V1 Prototype

Release Date: 3 November 2024

**Features**

Introducing the first release of the system, it serves as a prototype and a proof of concept for what the system would look like and how it should be used by users. The first release has the following features:

Movie Scheduling: Allow users to select between Profit Maximization and Balanced Movie Scheduling algorithms to arrange sessions for movies

List Movies: Introduces the basic functions of listing movies that have been scheduled.

Search Movies: Allows users to input a key word to search for available movies

Auto Log in: Serves as a placeholder for user log in function that is yet to be fully implemented. This is a temporary implementation in order to showcase the functions specific to logged in users.

Movie Ticket Booking: Enables users to view, select a movie session and book seats as per their preference.

**Improvements**

First integration of the movie booking and scheduling modules to help better realize the movie booking functionality following the application of movie scheduling algorithms

**Bug Fixes**

Seat Booking: Fixed issues of movie seat booking failure despite inputting the correct format for available seats.

**Known Issues**

User Login: Missing an actual log in mechanism for users.

Seat Booking Status: Assumes seating booking always succeeds as long as the seat is shown to be available. Further mechanisms and modules to govern seat booking status will be implemented following the integration of the payment module.

**Development Team**

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| --- | --- | --- |
| **Name** | **Title** | **Roles** |
| CHAN Ka Hong | Project Manger | Management, Design, Development, Testing Support, Documentation |
| FUNG Wing Ho | Assistant Project Manager | Management, Design, Development, Testing Support, Documentation |
| LAW Lok Hang | Programmer/Tester | Design, Development, Testing, Documentation |
| NG Ka Ho | Programmer/Tester | Design, Development, Testing, Documentation |
| WONG Tsz Kin | Programmer/Tester | Design, Development, Testing, Documentation |