Refer to README.md for setup instructions

**MOBLIMA (Course Project of SC2002 NTU)**

The MOBLIMA application automates the steps involved in online cinema ticket booking, sales reporting, and movie listing. Both the cinema staff and movie goers will use it. The program serves as a central "location" for scheduling all of the Cineplexes in the many locations that the provider manages.

The complete study, "SC2002 Assignment Report," contains information on design principles, design considerations, and the application of object-oriented programming (OOP) techniques. A thorough UML Class Diagram for the MOBLIMA and test cases for a few crucial features are also included in the report, which is followed by screen shots of testing performed using provided test data.

**Usage Instructions**

**Staff**

1. Before attempting to login as staff, create a new Staff account by first choosing option (3) when prompted for choice by the user interface
2. Create an account by keying in your username and password

E.g.

Username: abc

Password: 123

1. Proceed to login as a Staff by choosing (2) and keying in the Username and Password (E.g. Username: abc, Password: 123)
2. After login, the admin will be given 3 options to choose from:

Select the following action:

4.1 (1) Create/Update/Remove Movie Listing

4.1.1 (1) Display Movie Listing

* Select this option to display the list of movies (only contains movie title)

4.1.2 (2) Display Movie Information

* Select this option to display movie details such as movie title, type, showing status, synopsis, director, casts, movie ratings and past reviews

4.1.3 (3) Create New Movie

* Select this option to create a new movie and input movie details such as movie name, type, showing status, synopsis, director, casts and past reviews to complete the creation

4.1.4 (4) Update Movie

* Select this option to update one movie detail
* Select the option for the movie detail you need to edit
* Key in the new details required

4.1.5 (5) Remove Movie

* Select this option to remove a movie entirely from the list of movies written to the Serialised text file
* Note: Do not use this if you simply want to remove a movie by changing its showing status to “End of Showing”. This should be done under Update Movie (4.1.4) – simply change the movie detail of showing status to “end of showing”

4.1.6 (6) Back

* Select this option to return to staff main UI

4.2 (2) Create/Update/Remove Cinema Showtimes and Movies

4.2.1 (1) Display List of Movie Timing

* Select this option to view all Movie Timings in that Cineplex

4.2.2 (2) Create Cinema Showtime

* Select this option to create a new showtime in the selected Cineplex and Hall number
* Staff will be prompted to select which movie they wish to add a showtime for, the Date (YYYYMMDD) and the Time (HHMM) of the new showtime

4.2.3 (3) Update Movie Timing

* Select this option to Update Movie Timing
* Staff will be prompted to select which movie timing they wish to change
* Staff will be prompted to select what they want to change for that movie timing (Date, Time or Showing Status)

4.2.4 (4) Remove Movie Timing

* Select this option to remove Movie Timing

4.2.5 (5) Back

* Select this option to return to staff main UI

4.3 (3) Configure System Setting

4.3.1 (1) Display List of Cineplex

* Select this option to list all Cineplex

4.3.2 (2) Create New Cineplex

* Select this option to create new Cineplex
* Note: You will be prompted to create 3 new Cinema per Cineplex

4.3.3 (3) Remove Cineplex

* Select this option to remove a Cineplex

4.3.4 (4) Add New Cinema

* Select this option to add a new Cinema hall to Cineplex

4.3.5 (5) Create Holiday

* Select this option to create new holiday dates

4.3.6 (6) Update Pricing

* Select this option to update ticket pricing modifier

4.3.7 (7) Back

* Select this option to return to staff main UI

**User**

1. Users can just select “Customer” at the login page to access the User Interface for customers
2. Then they will be prompted to select which cineplex location they wish to visit.
3. The Users will then have a list of actions which they can select from the following options:

Select the following action:

* 1. (1) Search / List Movies
* Select this option to list all Movies.
  1. (2) View Movie Details
* Select this option to view all Details.
  1. (3) Review Movie
* Select this option to add a Review
* User will be prompted to select a movie, to add a review, from a list of movies.
* Users will then enter a score out of 5 to rate the movie as well as a comment for movie
  1. (4) Check Seat Availability and Selection of Seats
* Select this option to view the seating for a specific movie timing
* Users will be prompted to select a movie that they wish to check as well as a specific movie time
  1. (5) Book and Purchase Ticket
* Select this option to purchase a movie ticket and book a seat
* Users will be first prompted to select which movie they wish to see and at which timing
* Then based on the display of seats in that hall, Users can see which seats are available and enter the row and column number of the seat they wish to book
* Then they will be prompted to key in they personal details such as
  + Name
  + Phone Number
  + Email
  + Age
* Once done, the seat will be booked and their receipt will be printed
  1. (6) View Booking History
* Select this option to view booking history.
* User will be prompted to enter username of the booking history to query
  1. (7) List Top 5
* Select this option to view the Top 5 Movies based on Ticket Sales / Movie Rating (Based on setting set by the Cinema Staff)
  1. (8) Back
* Return to select cineplex menu