

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

UNIVERSITI TEKNOLOGI MARA (UiTM) CAWANGAN KEDAH, KAMPUS SUNGAI PETANI

DIPLOMA IN LIBRARY INFORMATIC (CDIM144)

PROGRAMMING FOR LIBRARIES (IML208)

GROUP PROJECT:

"CINEMA BOOKING SYSTEM REPORT"

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CLASS: KCDIM144 3E

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SUBMISSION DATE:

16 JANUARY 2024

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Assalamualaikum, warahmatullahi wabarakatuh. Salam UiTM Dihatiku.

First and foremost, we would like to give never-ending praise to Allah, The All Mighty, for having blessed us with the ability and good health to complete this pairing assignment. Special thanks to our lecturer for IML208, Sir Airul Shazwan bin Norshahimi, whose guidance and moral support have been major keys throughout our journey in finishing this assignment. His invaluable contributions carried us through all the stages of writing our project. We could not have undertaken this journey without our parents and siblings, to whom we are deeply indebted. Their love and appreciation for our studies are what keep us going through hard times. Their prayers for us are what have sustained us this far without us wanting to give it all up. Words can never express our gratitude enough to all of us mentioned above.

Second, our deepest appreciation goes to our dearest groupmates, who have given us all they can for putting up with us even at our absolute worst and for never doubting us even once. Despite all the pressures we have on our shoulders, they have never stopped being our helping hands. Thank you so much.

Our only hope for this assignment is that it will soon be helpful, no matter how big or small. Again, thanks to everyone who was directly or indirectly involved in the making of this assignment.

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1.0 INTRODUCTION

For our group assignment, we wanted to create a systematic cinema booking system. In this system, we have included three different modules, which are the membership module, the movie module, and the ticket module. Each of these modules contains its own attributes and functions. The membership module contains attributes such as IC number, name, e-mail, state, age, and category. After the user inserts their IC number, it will automatically generate their age. The calculation involved in this step is taking the first two numbers from the IC number and substracting them to 24, which represents the year 2024. Based on age, we used the selection method to determine their categories, whether child, teenager, or adult. After these data are submitted, they will be saved in the database. However, users can also choose to delete or update their data.

Next is the movie module. This module contains attributes such as movie name, duration, genre, and classification. We used the combobox to display our movie choices and price information for each movie. In this module, users will just need to select their movie of interest. After the movie has been selected, other attributes like the duration, genre, and classification will automatically appear, and users can click submit.

The last module would be the ticket module. The ticket module contains attributes such as IC number, selected movie, date, seat number, and pax. The selected movie from the movie module will be brought to the ticket module, which is in the selected movie attribute. Then, users just need to insert their IC number, date, seat number, and pax. The price of the selected movie will be multiplied by the number of passengers that users wish for. After the data is submitted, a receipt will be generated, containing the attributes completed with users' data together with a special booking ID. This booking ID uses the looping method, precisely while looping. Then, these data will be submitted to the database. However, users can also choose to delete or update their data.

2.0 PROBLEM STATEMENTS

Customer Service Issues:

- 1) Long Queue Times: Extended wait times for customers at the cinema, whether for purchasing tickets or collecting pre-booked tickets.
- 2) Poor Customer Support: Ineffective or unresponsive customer support channels can frustrate customers seeking assistance.

Inventory Management:

- 1) Overbooking: Selling more tickets than available seats due to poor inventory management.
- 2) Outdated Information: Failure to update showtimes, movie schedules, or seat availability in real-time.

Customer Experience:

- 3) Unpleasant User Interface: Poorly designed or confusing interfaces can negatively impact the user experience.
- 4) Lack of Personalization: Failing to offer personalized recommendations or loyalty rewards to frequent customers.

3.0 OBJECTIVES

1) Facilitate Ticket Sales:

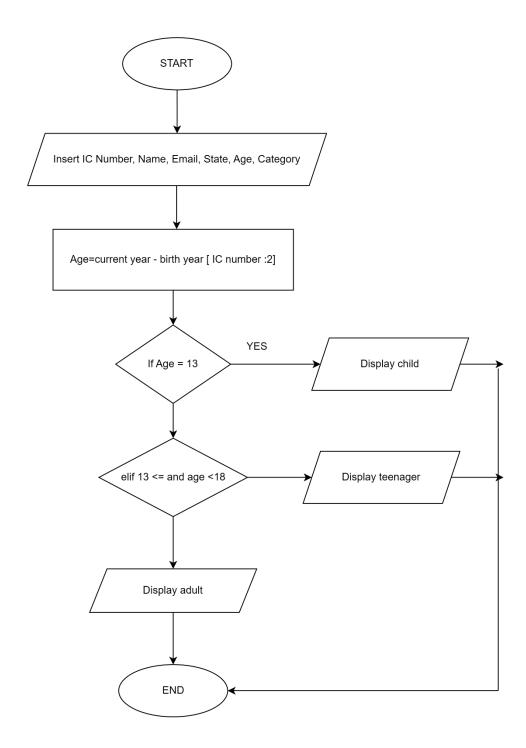
Enable customers to easily purchase tickets for movie screenings through multiple channels, including online platforms, mobile apps, kiosks, and on-site ticket counters.

2) Streamline Booking Process:

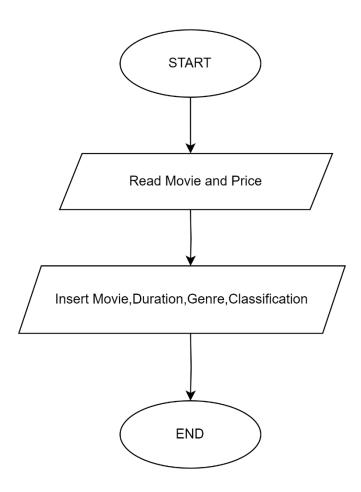
Provide a user-friendly and efficient booking process to minimize wait times and enhance the overall customer experience.

4.0 FLOWCHART

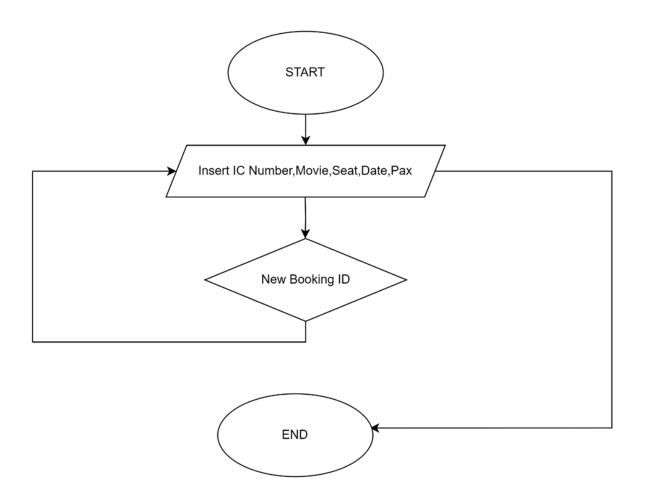
4.1 MODULE FIRST: FLOWCHART FOR MEMBERSHIP MODULE



4.2 SECOND MODULE: FLOWCHART FOR MOVIE MODULE



4.3 THIRD MODULE: FLOWCHART FOR TICKET MODULE



5.0 SNAPSHOT OF CODING

```
File Edit Selection View Go ...  

Description

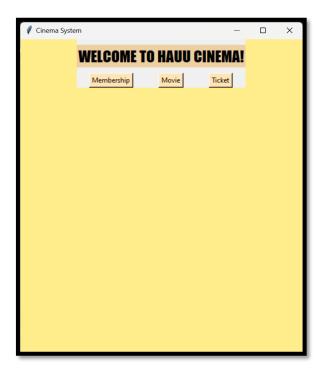
File Edit Selection View Go ...  

Description

Description
```

6.0 SNAPSHOT OF PROJECT (GUI)

6.1 Main Menu



6.2 Membership Module



6.3 Movie Module



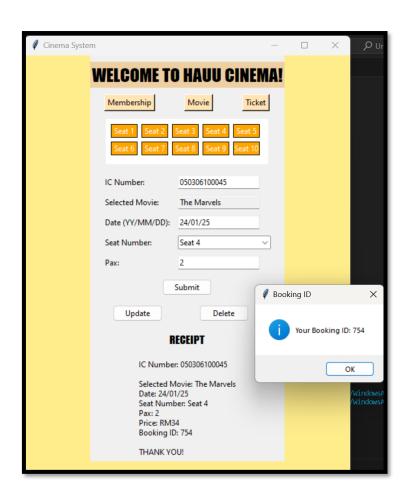
6.4 Ticket Module



6.5 After insert the data

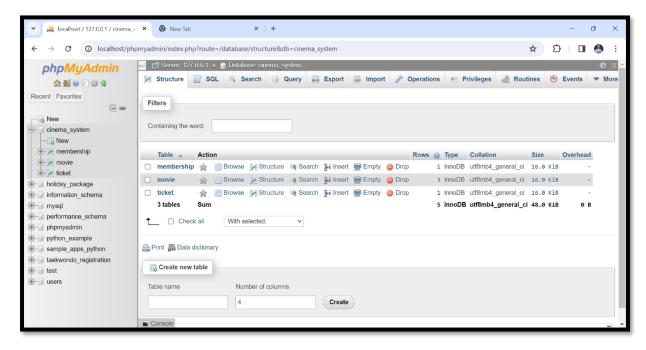




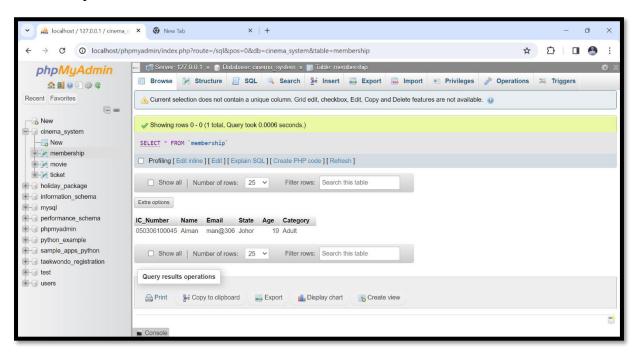


7.0 SNAPSHOT OF DATABASE (XAMPP)

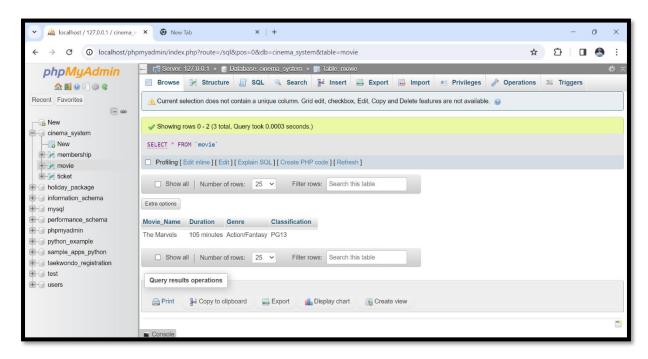
Cinema_System Database



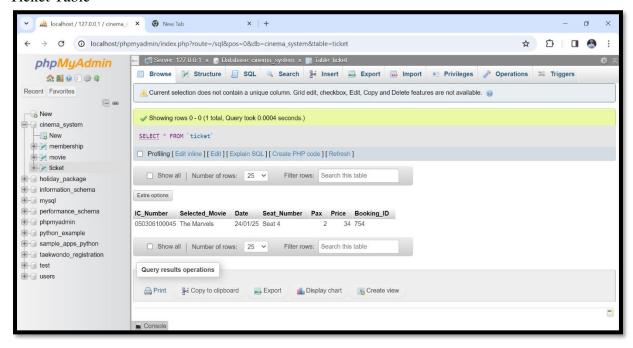
Membership Table



Movie Table



Ticket Table



8.0 CONCLUSION

To sum up, our team has created an organized movie ticketing system that consists of three unique modules: Membership, Movie, and Ticket. Every module provides a variety of features and capabilities designed to improve consumers' movie-going experiences. These modules are the prime examples of user interface efficiency, enabling movie fans to quickly submit their choices and add to the cinema database. In addition to fulfilling the main requirements of our group project, our Cinema System is an example of how collaborative technologies like Tkinter and MySQL can be used to build efficient and friendly cinema management systems. The smooth flow of data and operations is ensured by proper integration of various modules, which eventually helps to make movie ticketing more effective and pleasurable.

On top of that, adding a while loop to the Ticket module of the system not only improves user experience but also shows how we value customer convenience and adaptability. The loop makes the system easier and user-friendly by allowing users to submit multiple ticket transactions quickly and without having to restart it. This feature demonstrates our commitment to providing a solution that not only satisfies the original assignment objectives but also takes note of realistic user circumstances for a complete cinema booking experience.

In short, our movie ticketing system not only satisfies the group assignment's requirements but is also a flexible and adaptable solution that meets the demands of movie theatre management systems in the future.



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