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Pensyarah: NOORNAJWA BINTI MD AMIN		Section: 02
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Assignment Title: ASSIGNMENT PROJECT SWC 2333 0422		Extension %=& Late submission:
Assignment Type: GROUP	% Assignment /	Returning Date:
Penalties: 10% of the original mark will be undersigned that I/we have read and agree to abide by these regulations on plagiarism and cheating. I/we confirm that this piece of work is my/our own. I/we consent to appropriate storage of our work for checking that that is no plagiarism/academic hating.		
Signature: <div style="display: flex; justify-content: space-around; align-items: flex-end; margin-top: 10px;"> <div style="text-align: center;">  (MUHAMMAD REDZWAN) </div> <div style="text-align: center;">  (MUHAMMAD ZAFRAN) </div> <div style="text-align: center;">  (MUHAMMAD SHAFIQ RASHDI) </div> <div style="text-align: center;">  (WAN AHMAD DANIAL) </div> </div>		
This section may be used for feedback or other information.		

Table of Contents

1. Project Background	3
2. Problem Statement	4
3. Project Objective.....	5
4. Coding	6
5. Sample Output.....	7
5.1 Correct data.....	7
5.2 Incorrect data	10
6. User Manual	12
7. Lessons Learnt	18
8. Conclusion	19
9. SWC2053 - PROJECT EVALUATION.....	20

1. Project Background

Our Diamond Screen Cinema (DSC) Ticketing System is a system provide various type of cinema such as Imax, Dolby, standard, deluxe, luxury and many more. The price for each type of cinema will be different because of the experience itself. Our system operates 7 days a week from 8 a.m. to 12 a.m. The process of buying ticket will fully be conduct through online, so there will be no line to be queue. Being a membership will give you 5% discount for all the purchase you made. For now, that's all the discount we have and there is no other discount available, but we assure that many more discounts will be in this system when the upcoming time.

First you need to select your type of cinema there is a selection where you would be able to buy food and beverages on the spot. You could enjoy our 5 Michelin star Nasi Kerabu while watching your movie. After you are done, our platform will bring you to the last section which is the amount of tickets you want. When you finished you are good to go and enjoy your movie.

Due to our policy during the pandemic, our system only allow customer to purchase maximum 3 foods. There is no social distancing seat in the hall so you could side by side with your family and friends during the movie.

2. Problem Statement

The main problem we saw in ticketing system especially a “walk in” system or kiosk system is people need to come to the cinema to buy the ticket and this will make the surrounded area so crowded.

Next problem is the difficulty to manage the transaction process of paying the ticket. From the previous system we normally had to pay with cash and there are not many varieties of options to pay with.

Last problem that is typically happen is the ticket itself. Normally we get a piece of paper and all the information about our movie payment, time, seat and foods and beverages are appeared there. Have we ever wondered what happen if we lose it? We probably need to buy another set of ticket, food, and beverages.

3. Project Objective

Crowded area is not the issue in our system. Our goal is to develop a ticketing system that are time friendly and ease the process of buying the ticket efficiently, so our customer can save their time and not to be bother by the long line and the crowded people.

During this time technology has gone beyond our expectation where people are more prefer to cashless. So, our system will allow you to make a payment with various type of payment such as online banking, E-Wallet, Credit or Debit Card, PayPal, Cryptocurrency.

The missing ticket problem will not occur on our system because we develop a system where after you are done purchasing you will be given a QR code. Everything you need to do is to save the QR code and inside the QR code you have all the information you need like the seat, time, payment, and all. No need to bother to bring your piece of paper wherever you got and afraid of lose it.

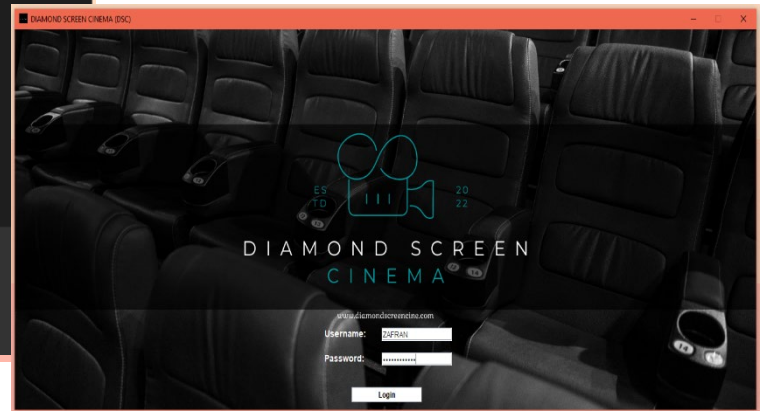
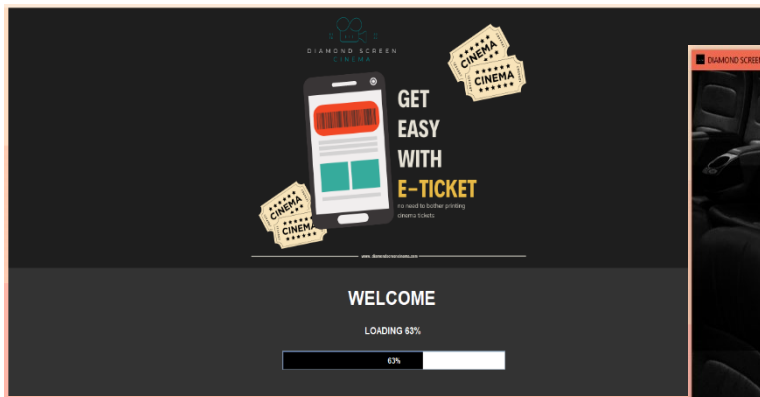
4. Coding

GitHub Link:

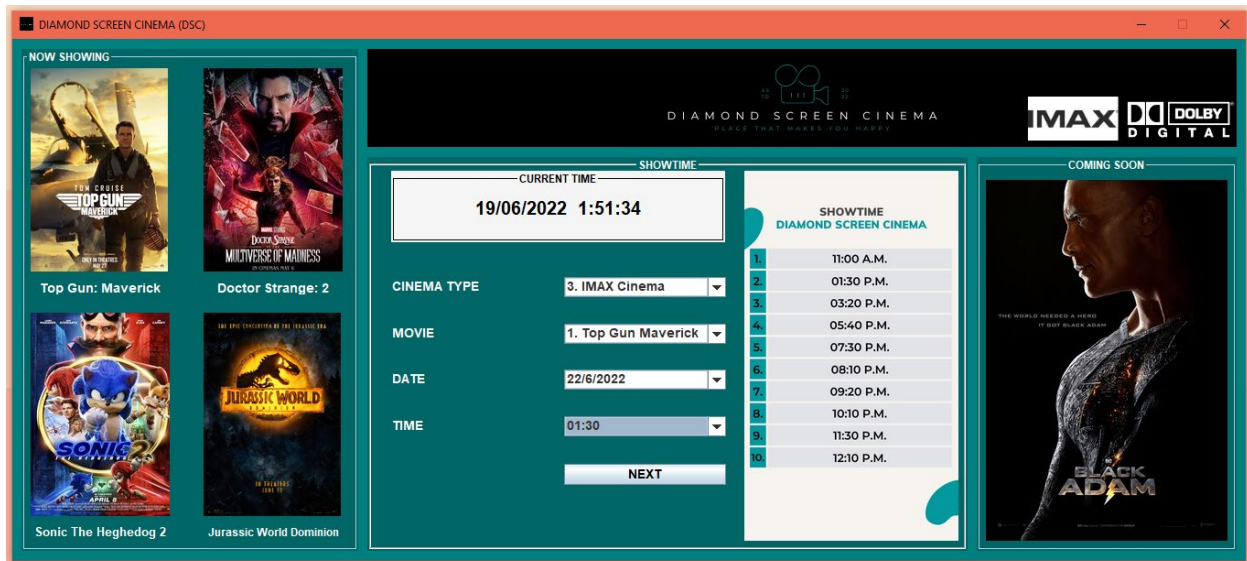
<https://github.com/redzwantafek/Diamond-Screen-Cinema-Ticketing-System-Project>

5. Sample Output

5.1 Correct data



1. Opening Diamond Screen Cinema (DSC)
 - a) Loading screen appeared
 - b) You need to login your Username and Password



2. Movie selection platform
 - a) You need to choose the Cinema Type, Movie, Date and Time

DIAMOND SCREEN CINEMA (DSC)

Thank You

FOR YOUR PURCHASE

RECEIPT

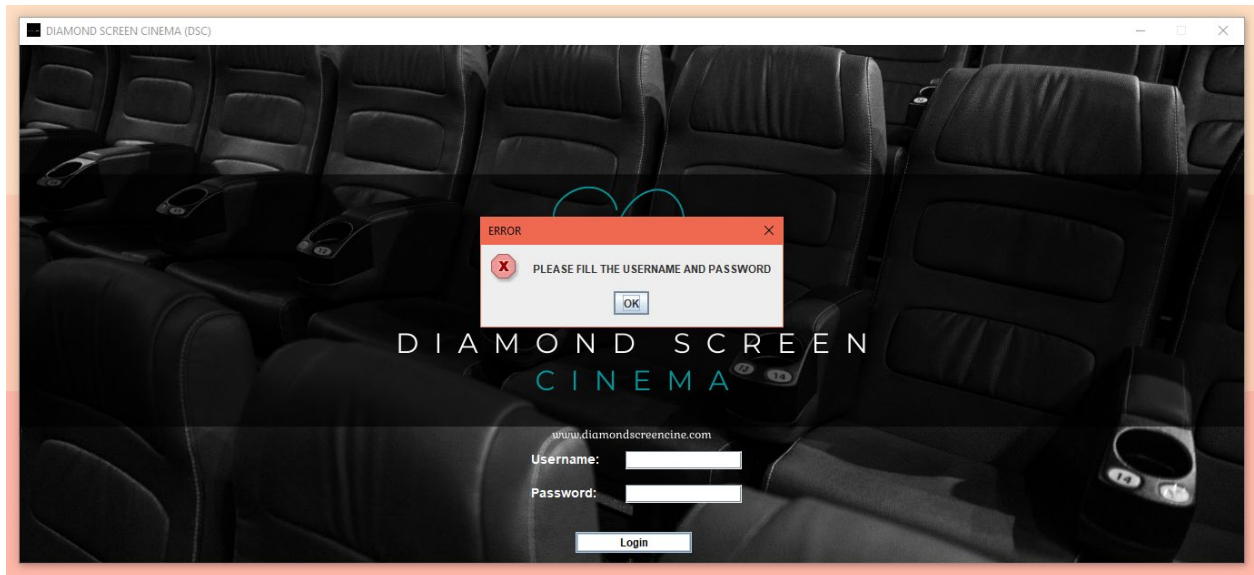
NAME:	ZAFRAN	ADULT:	x 3	RM90.00
CINEMA TYPE:	IMAX Cinema	CHILDREN:	x 1	RM28.00
MOVIE:	Top Gun Maverick	FOOD & BEVERAGES:	Nasi Kerabu x 1	RM10.00
DATE:	22/6/2022	FOOD & BEVERAGES:	Popcorn x 4	RM32.00
TIME:	01:30	FOOD & BEVERAGES:	Soda Drink x 4	RM16.00
HALL NUMBER:	Hall 4	MEMBERSHIP:	Yes (5% Discount)	- RM8.80
SEAT NUMBER:	H1, H2, H3, H4	PAYMENT OPTION:	Cryptocurrency	
TIME PURCHASE:	19/06/2022 01:53:00	TOTAL:		RM167.20

SCAN ME

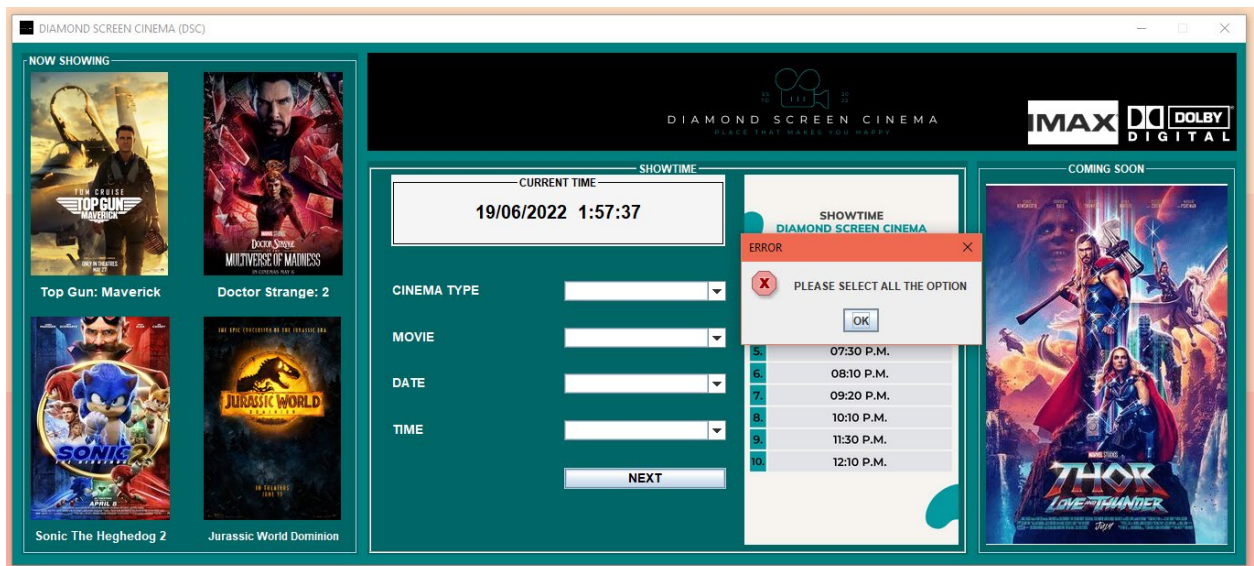
5. Receipt platform

- Save or screenshot the QR code and use it to enter the cinema hall.

5.2 Incorrect data



1. Opening Diamond Screen Cinema (DSC)
 - a) Output “PLEASE FILL THE USERNAME AND PASSWORD” will appeared if you do not insert Username and Password.



2. Movie selection platform
 - a) Output “PLEASE SELECT ALL THE OPTION” will appeared if you do not select either Cinema Type, Movie, Date or Time.

DIAMOND SCREEN CINEMA
PLACE THAT MAKES YOU HAPPY

MOVIE TICKET

Classic Adult	RM15.00
Classic Children	RM13.00
Dolby Adult	RM30.00
Dolby Children	RM28.00
MAX Adult	RM35.00
MAX Children	RM33.00
MAX Adult	RM45.00
MAX Children	RM43.00

FOOD AND BEVERAGES

Nasi Kerabu	RM10.00
Popcorn	RM8.00
Soda Drink	RM4.00
Hot Dog	RM6.00

ALL MEMBERS CAN GET 5% DISCOUNT FOR ALL THE PURCHASE

PLEASE FILL THE INFORMATION

HALL NUMBER:

SEAT NUMBER:

ADULT:

CHILDREN:

MEMBERSHIP: ☐ Membership ☐ Non-Membership

FOOD AND BEVERAGES:

TOTAL:

RESET
BACK
PROCEED

ERROR
PLEASE SELECT THE OPTION
OK

3. Information platform

- a) Output “PLEASE SELECT THE OPTION” will appeared if you do not fill all the option

DIAMOND SCREEN CINEMA
PLACE THAT MAKES YOU HAPPY

CONFIRM PAYMENT

NAME: ZAFRAN

CINEMA TYPE: Luxury

MOVIE: Top Gun Maverick

DATE: 20/6/2022

TIME: 11:00

HALL NUMBER: Hall 2

SEAT NUMBER: H1, H2, H3, H4

ADULT: 3

CHILDREN: 1

FOOD & BEVERAGES 1: Nasi Kerabu x 1

FOOD & BEVERAGES 2: Popcorn x 4

FOOD & BEVERAGES 3: Soda Drink x 4

MEMBERSHIP: Yes (5% Discount)

TOTAL: RM 224.20

Payment
Please Choose Your Payment Option

E-WALLET
PAY CASHLESS WITH E-WALLET

PAYMENT OPTION:

PAY
BACK

NOW SHOWING

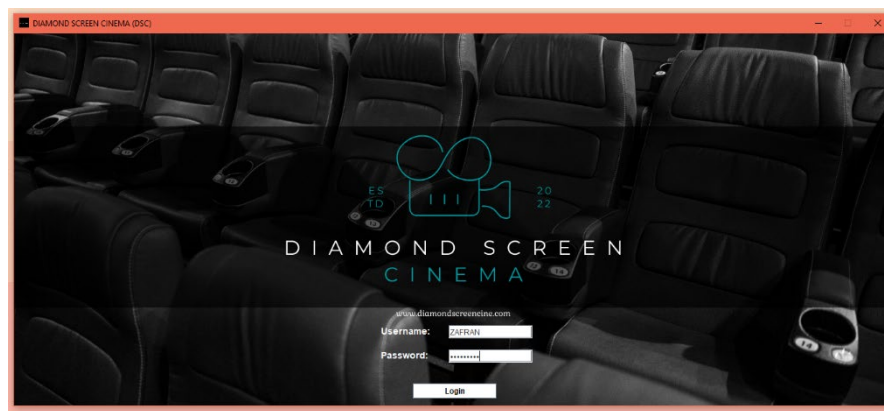
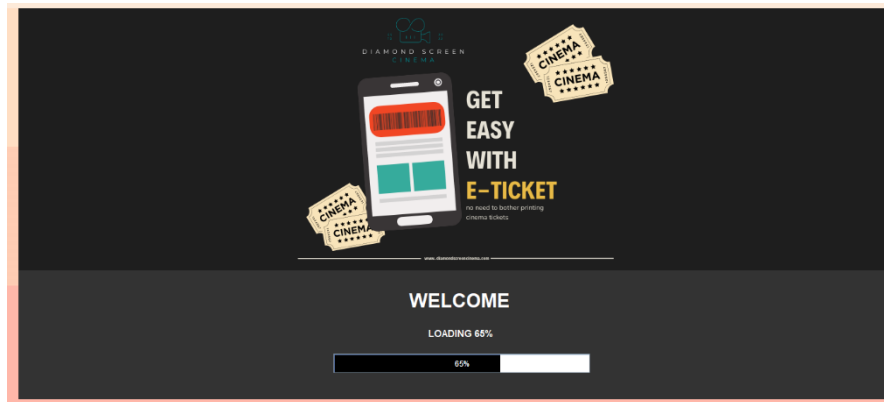
TOM CRUISE
TOP GUN MAVERICK
ONLY IN THEATRES
MAY 27

ERROR
PLEASE SELECT THE PAYMENT OPTION
OK

4. Payment platform

- a) Output “PLEASE SELECT THE PAYMENT OPTION” will appeared if you do not select your Payment Option.

6. User Manual



1. Opening Diamond Screen Cinema (DSC)
 - a) Loading screen appeared
 - b) Insert Username and Password

2. Movie selection platform

DIAMOND SCREEN CINEMA (DSC)

NOW SHOWING

Top Gun: Maverick

Doctor Strange: 2

Sonic The Hedgehog 2

Jurassic World Dominion

DIAMOND SCREEN CINEMA
PLACE THAT MAKES YOU HAPPY

IMAX DC DOLBY DIGITAL

CURRENT TIME
19/06/2022 2:5:4

CINEMA TYPE

MOVIE

DATE

TIME

NEXT

SHOWTIME
DIAMOND SCREEN CINEMA

1.	11:00 A.M.
2.	01:30 P.M.
3.	03:20 P.M.
4.	05:40 P.M.
5.	07:30 P.M.
6.	08:10 P.M.
7.	09:20 P.M.
8.	10:10 P.M.
9.	11:30 P.M.
10.	12:10 P.M.

COMING SOON

Lightyear

a) Choose type of cinema you want to watch in

DIAMOND SCREEN CINEMA (DSC)

NOW SHOWING

Top Gun: Maverick

Doctor Strange: 2

Sonic The Hedgehog 2

Jurassic World Dominion

DIAMOND SCREEN CINEMA
PLACE THAT MAKES YOU HAPPY

IMAX DC DOLBY DIGITAL

CURRENT TIME
19/06/2022 2:5:16

CINEMA TYPE
4. Deluxe

MOVIE

DATE

TIME

NEXT

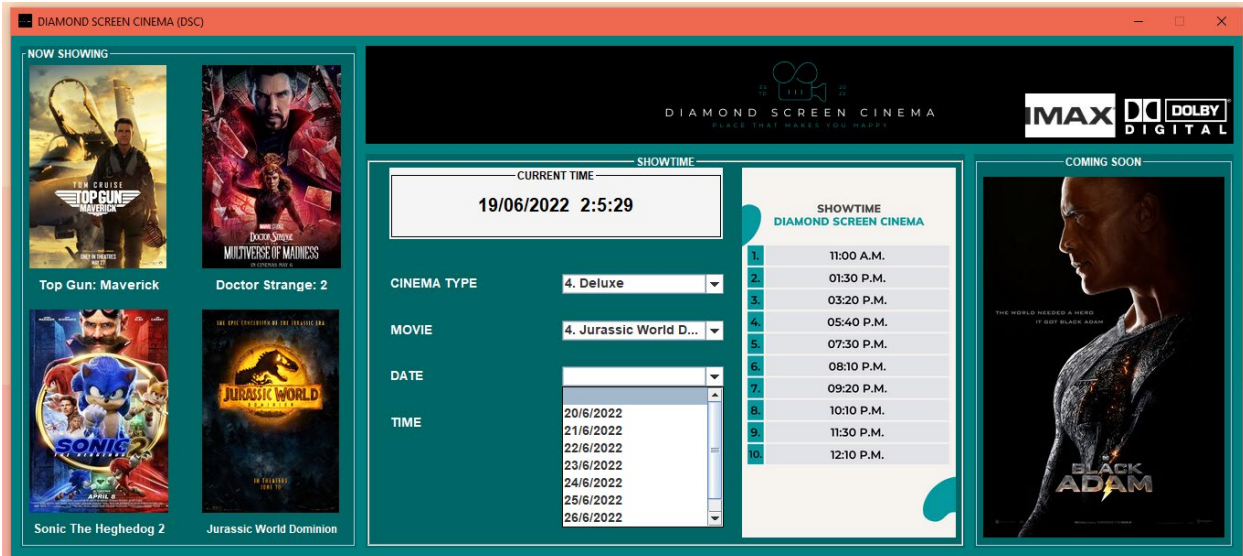
SHOWTIME
DIAMOND SCREEN CINEMA

1.	11:00 A.M.
2.	01:30 P.M.
3.	03:20 P.M.
4.	05:40 P.M.
5.	07:30 P.M.
6.	08:10 P.M.
7.	09:20 P.M.
8.	10:10 P.M.
9.	11:30 P.M.
10.	12:10 P.M.

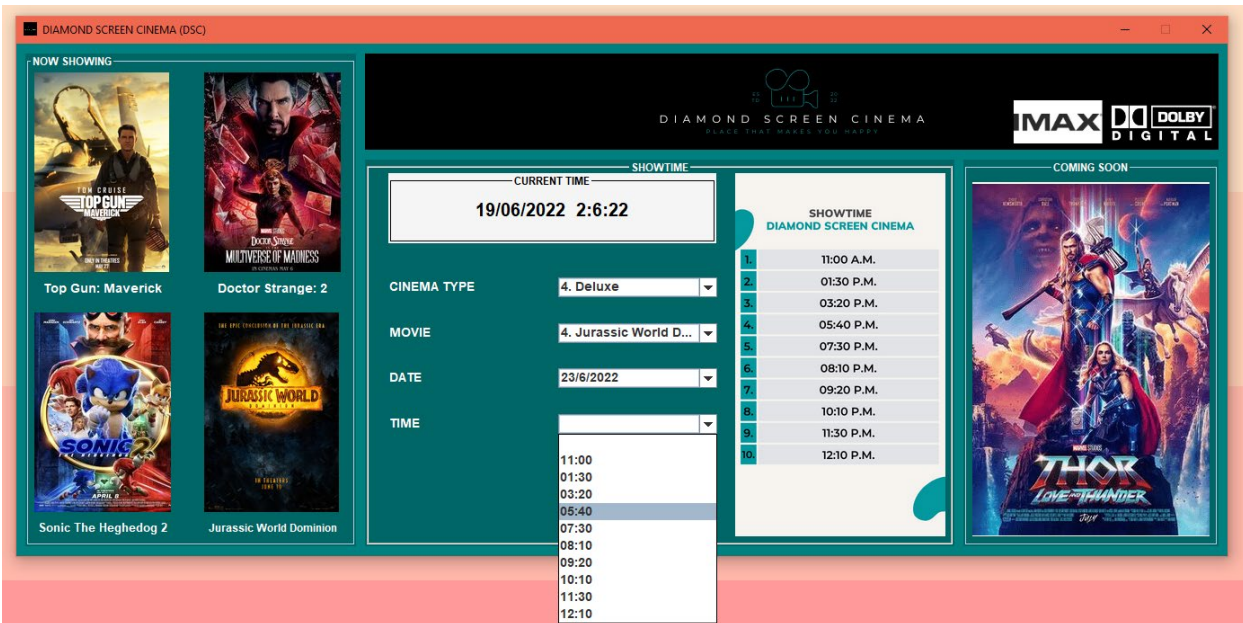
COMING SOON

Minions: The Rise of Gru

b) Choose Movie that you want to watch



c) Choose the Date you would watch



d) Choose Time for the movie to start

3. Information platform

DIAMOND SCREEN CINEMA (DSC)

ES TO 20 22

DIAMOND SCREEN CINEMA
PLACE THAT MAKES YOU HAPPY

MOVIE TICKET

Classic Adult	RM15.00
Classic Children	RM10.00
Dolby Adult	RM30.00
Dolby Children	RM20.00
IMAX Adult	RM30.00
IMAX Children	RM20.00
Deluxe Adult	RM35.00
Deluxe Children	RM33.00
Luxury Adult	RM45.00
Luxury Children	RM43.00

FOOD AND BEVERAGES

Nasi Kerabu	RM10.00
Popcorn	RM8.00
Soda Drink	RM4.00
Hot Dog	RM6.00

ALL MEMBERS CAN GET 5% DISCOUNT FOR ALL THE PURCHASE

PLEASE FILL THE INFORMATION

HALL NUMBER: Hall 3

SEAT NUMBER: H2, H3, H4

ADULT: 0

CHILDREN: 0

MEMBERSHIP: ☐ Membership ☐ Non-Membership

FOOD AND BEVERAGES:

TOTAL:

RESET BACK PROCEED

PLEASE FILL THE INFORMATION

HALL NUMBER: Hall 3

SEAT NUMBER: H2, H3, H4

ADULT: 2

CHILDREN: 1

MEMBERSHIP: ☒ Membership ☐ Non-Membership

FOOD AND BEVERAGES: 1. Nasi Kerabu 1 2. Popcorn 3 3. Soda Drink 3

TOTAL:

RESET BACK PROCEED

- Choose which hall you want
- Pick your Seat Number according to the list of seats.
- Choose how many Adults and Children you want to buy tickets
- Tick whether you are a member or not and get 5% discount
- Pick your choice of Food and Beverage if you want
- Click "RESET" to reset all the option.
- Click "BACK" to go back to the previous page.
- Click "TOTAL" and the total of your purchase will appear in the box
- Click "PROCEED" to go to the next page.

4. Payment platform

DIAMOND SCREEN CINEMA (DSC)

DIAMOND SCREEN CINEMA
PLACE THAT MAKES YOU HAPPY

CONFIRM PAYMENT

NAME: ZAFRAN
CINEMA TYPE: Deluxe
MOVIE: Jurassic World Dominion
DATE: 23/6/2022
TIME: 03:20
HALL NUMBER: Hall 3
SEAT NUMBER: H2, H3, H4

ADULT: 2
CHILDREN: 1
FOOD & BEVERAGES 1: Nasi Kerabu x 1
FOOD & BEVERAGES 2: Popcorn x 3
FOOD & BEVERAGES 3: Soda Drink x 3
MEMBERSHIP: Yes (5% Discount)
TOTAL: RM 141.55

Payment
Please Choose Your Payment Option

Online Banking
E-Wallet
Credit or Debit Card
Paypal
Cryptocurrency

PAYMENT OPTION:

PAY
BACK

NOW SHOWING
SONIC 2
THE HEAVENLY CREW
APRIL 6

Payment
Please Choose Your Payment Option

Cryptocurrency

Online Banking
E-Wallet
Credit or Debit Card
Paypal
Cryptocurrency

PAYMENT OPTION: Cryptocurrency

PAY
BACK

- Double check your order and proceed to payment
- Choose your type of payment either Online Banking, E-Wallet, Credit or Debit Card or Cryptocurrency
- After choosing your type of payment, click on "PAY" to pay or back to go back to previous page

5. Receipt platform

DIAMOND SCREEN CINEMA (DSC)

DIAMOND SCREEN
CINEMA

Thank You

FOR YOUR PURCHASE

RECEIPT

NAME:	ZAFRAN
CINEMA TYPE:	Deluxe
MOVIE:	Jurassic World Dominion
DATE:	23/6/2022
TIME:	03:20
HALL NUMBER:	Hall 3
SEAT NUMBER:	H2, H3, H4
TIME PURCHASE:	19/06/2022 02:09:04

ADULT:	x 2	RM70.00
CHILDREN:	x 1	RM33.00
FOOD & BEVERAGES:	Nasi Kerabu x 1	RM10.00
FOOD & BEVERAGES:	Popcorn x 3	RM24.00
FOOD & BEVERAGES:	Soda Drink x 3	RM12.00
MEMBERSHIP:	Yes (5% Discount)	- RM7.45
PAYMENT OPTION:	Cryptocurrency	
TOTAL:		RM141.55



SCAN ME

- After done payment, receipt and QR code for you to scan before entering the cinema will appeared
- Make sure to save or screenshot the QR code
- You are good to enjoy your choice of movie
- Enjoy

7. Lessons Learnt

MUHAMMAD REDZWAN BIN MD TAUFEK (Coding):

I faced so many things while doing this project. I felt happy and stress at the same time when working on the project. I use all the knowledge from what I learned in class and on the internet.

I faced so many errors in my code and sometimes I don't know how to solve it. I use the internet to find the solutions and also some help from my friends. I also refer to the notes and exercises from the lecture.

I learnt so many things while working on this project. I learnt how to solve the problems and write the proper code. I also learned how to make a proper GUI program. For me, it's a little bit challenging to finish this project but we able to finish it.

MUHAMMAD ZAFRAN BIN ZAILAN (Coding):

From this group project I learn how important to always stay focus on classes because coding is not an easy subject. Once you lose focus it will be hard to understand how certain code works. I also learn the importance of teamwork. In this group project we do not use only one frame, but we use a lot of frames to make it look nice so sometimes there whenever one of our group members ask us how to connect one frame to the other frame we always be there to help then and guide so that they didn't do anything wrong.

MUHAMMAD SHAFIQ RASHDI BIN MOHD SAZELI (Report and Presentation):

Base on the assignment I learnt a few valuable lessons like teamwork makes the dreams work. Giving each other parts and time limit to do is challenging but in the end we able to do it. I also learned to be on time because if one person late it will affect others member. For example, if you late on your work it will be dragged to the others and make the assignment finished off time or late.

WAN AHMAD DANIAL BIN ZAKARIA (Report and Presentation):

The lesson that I learned is I get to know how to use eclipse and how to create a design. I can also know how to make a report about the program I make.

I also know how to solve problems efficiently and working as a group allows me to work calmly and not in a hurry because my teammates always help me if there is a problem. Lastly, I also learned how to work with a group by dividing the work equally with group members and completing work on time.

8. Conclusion

The journey of making this system is full of our blood, sweat and tears. When making this system for the first time, there were many setbacks, and it has pushed us to our limit. Nevertheless, through sheer willpower and a lot of recoding the system, we have finally made a system that is both efficient and simple to use.

As an overall conclusion we would say that we are very surprised that such a system can be made and fully function at the same time. Being able to develop a system that could help people to have a more efficient and simple way to buy tickets is a moment that is breathtaking moment. After looking back at all the time and hard work and seeing what we have now are paid, this does put smile on our faces.

9. SWC2053 - PROJECT EVALUATION

NAME:

- MUHAMMAD REDZWAN BIN MD TAUFEEK (AM2111010466)
- MUHAMMAD ZAFRAN BIN ZAILAN (AM2111010472)
- MUHAMMAD SHAFIQ RASHDI BIN MOHD SAZELI (AM2111010467)
- WAN AHMAD DANIAL BIN ZAKARIA (AM2111010510)

PRESENTATION (40 MARKS)

NO	CONTENT	MARK	fulfill (100% mrk)	Less fulfill (≤80% mrk)
1	Have welcome page (at least 1)	2		
2	Have image(at least 1)	2		
3	Have frame(at least 4 connected frames)	4		
4	Have labels	2		
5	Have textfields	2		
6	Have checkbox/combobox	2		
7	Have lists/ textarea	2		
8	Have radiobuttons	2		
9	Have receipt	2		
10	Exception handling	2		
11	Functioning	5		
12	Understanding of coding implementation	5		
13	Creativity – beautiful screen, additional features	5		
13	Q&A (can answer all questions)	3		
TOTAL		40		

REPORT AND END PRODUCT (60 MARKS)

NO	CONTENT	MARK	>=50% Complete (>= 50% mrk)	<50% complete (<50% mrk)
1	Table of contents (has content, page number and structured)	2		
2	Project Background (clear explanation of what the project is related to)	4		
3	Problem Statements (>2 problems)	4		
4	Project Objectives (related to solve the specified problems)	4		
5	Coding (softcopy provided)	8		
	Program- structured, has comments, appropriate names	5		
6	Sample Output (sequence of output with correct and incorrect data)	10		
7	User Manual (easy to follow)	10		
8	Lessons learnt (complete with experience and problem solving)	8		
9	Conclusion	5		
TOTAL		60		

----- End of project guidelines -----