



**UUM**  
**Universiti Utara Malaysia**

**STIA1123 PROGRAMMING 2**

**SESI 2020/2021 (SESSION A202)**

**GROUP C**

**PROJECT REPORT**

**SPORT BUSINESS / EVENT**

**PREPARED FOR:**

**Prof. Madya Dr. Azman B Yasin**

**PREPARED BY:**

<b>NAME</b>	<b>MATIC NO.</b>
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Muhammad Hidayat Bin Ibrahim	279395
Pee Foo Ye	278632
Muhammad Syarif Bin Dollah	279271

**DATE SUBMISSION:**

**2021**

## **Company Background**

### **Background of the Project**

Our main project is based on the sport business event. There are various types of sport in Malaysia and not just a physical sport, indoor sport and e-sport for the person who not active in physical activities provided. Our group are managing bowling centre business, futsal centre business, gaming centre business and also racing car business. Each person from our group are assigned to a different sport and also a different location to make sure each place in our country have sport facilities. The main reason our group starting this business is to build a society that not just focus on academic but also focus on their health whether it is mental or physical health. Each of the sport have different types of rules and also different way of playing. We divide each of the sport in a different centre to make it easier to participant to choose the sport that they like and want to participate. Each of the sport centre have their own purpose for developing this system.

#### **1. Futsal Centre (Muhamad Hazman Bin Haris 278632)**

Our company is called Megah Futsal, established on August 2, 2017. Our company location is in Pekan Jitra 2, 06000, Jitra, Kedah. The location of our company also has some areas that are the focus of the public around our company such as Tesco supermarket and Jitra market.

Currently, our company has 5 employees who are able to manage futsal competitions well. The purpose of the establishment of our company is to run a great futsal competition, the winning prizes offered are also very lucrative and can attract the attention of customers. In addition, we also want to provide a place for futsal players to showcase their talents. Of course, our target customers are people who are interested in playing futsal competitively. Coinciding with our company slogan which is “Your TOP choice futsal tournament management”, therefore we warmly welcome you to participate in futsal competitions organized by our company.

For more information about our company or the competition, you can contact us by email at megahfutsal07@gmail.com, or call 04 - 0208007. You can also visit our website,

[www.MegahFutsalEventManager.com](http://www.MegahFutsalEventManager.com) to see the activities that our company runs such as futsal competitions that we have done before.

## **2. Car Racing (Pee Foo Ye 278632)**

Pro MotorSport Enterprise is a company which conducts car racing business. The company has been setup since 20 May 2019, the location is at 1760 Permatang, Simpang Ampat, 30300 Kedah and the business hour on Mondays to Friday are from 10.00 A.M. – 9.00 P.M. and the company will be closed at weekend. Every customer who wants to be contestant have to fulfill these requirements which are possess a Nation Competition License and good health situation. There are 4 types of racing will be held in the company which are Formula racing, Sports car racing, Stock car racing, and Drag car racing. Besides that, Pro MotorSport Enterprise will also provide several types of vehicles for each racing type. For Formula Racing, the company will provide "Alfa Romeo Ferrari C39", "Renault RS20 ", "Racing Point BWT Mercedes RP20" + "Williams Mercedes FW43". Next, the cars that provided by the company for the Sport car racing are "Mazda MX-5", "Porsche 911", "Alpine A110", "Porsche 718 Boxster/Cayman", "McLaren 570S", "Mercedes-AMG C 63 S". For "Declasse Burger Shot Stallion", "Bravado Redwood Gauntlet", "Vapid Pisswasser Dominator", "Bravado Sprunk Buffalo" are provided for Stock car racing. There are also several drag cars are provided, which are "Chevrolet Camaro ZL1", "Buick Grand National GNX", "Chevrolet Corvette C7 Z06", "Mustang GT500", "Chevrolet Nova". The company currently have 7 employees which consist of 1 manager, 1 assistant, 1 admin, 1 line Stiper, 1 vehicle paint sprayer, 1 security, 1 maintenance manager.

## **3. Gaming (Muhammad Hidayat Bin Ibrahim 279395)**

E-sports (also known as electronic sports, e-sports, or eSports) is a form of competition using video games. E-sports often takes the form of organized, multiplayer video game competitions, particularly between professional players, individually or as teams. Although organized competitions have long been a part of video game culture, these were largely between amateurs until the late 2000s, when participation by professional gamers and spectatorship in these events through live streaming saw a large surge in popularity. By the 2010s, e-sports was a significant factor in the video game industry, with many game developers actively designing and providing funding for tournaments and other events. Following the trend of the E-sports, Melio Enterprise was founded by

Hidayat. Our company provides customers the chance for them to compete with each other with E-sports to win the glory and prize.

The company is located at Lot G-10, Menara Amanah Ikhtiar, Jalan Cempaka SD 12/1A, Bandar Sri Damansara, PJU 9, 52200 Kuala Lumpur . There are quite a few departments of employees in this company for example the manager, event host, technician, admin and more. And Melio Enterprise are currently still recruiting. For those who interested in participating the events or working as our partner, please kindly contact 03-46654432(Compony) or E-mail to [melio@gmail.com](mailto:melio@gmail.com) for any inquiries.

Furthermore, the participants can kindly use the sport event business system to register themselves to participate the events organised by Melio Enterprise or surf the information about the recent events using the system. Meanwhile, the admin of Melio Enterprise can use the system to update the information about the events and employee. The admin can also use the system to update the finance details of the company and then calculate the cost and net profit of each event

#### **4. Gaming (Muhammad Syarif Bin Dollah 279271)**

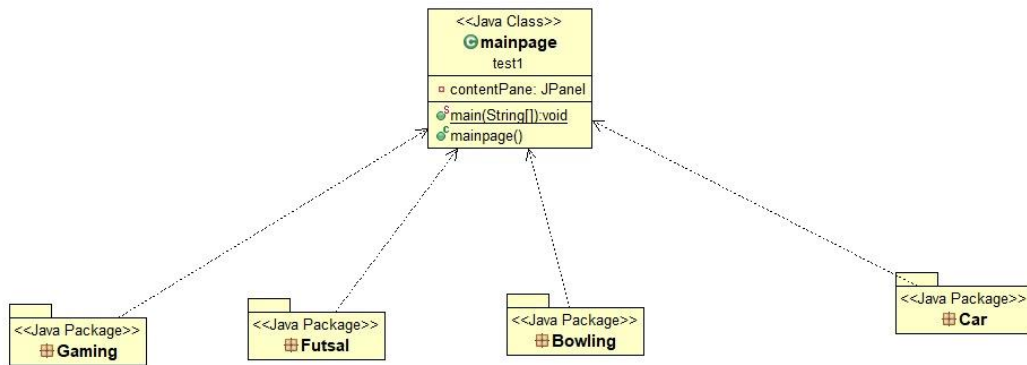
Bowling is a Team Sport Although bowling is usually seen on television as an individual sport, it is more common for bowling to be enjoyed as a team sport. Most bowling alleys have league competitions for teams every night of the week and leagues for children on the weekend. While individual bowlers compare their scores against other individuals, bowling teams simply add their scores together and compare that against the other teams cumulative score.

For this project, I make a system to develop bowling sport business. This bowling business is “Hunter Bowling Center” have been in business area for 3 years. Our sport center is more committed than ever to providing you with the best bowling experience possible. We hope our customer will enjoy everything with our facility and we look forward to helping our customer have a great time in future.

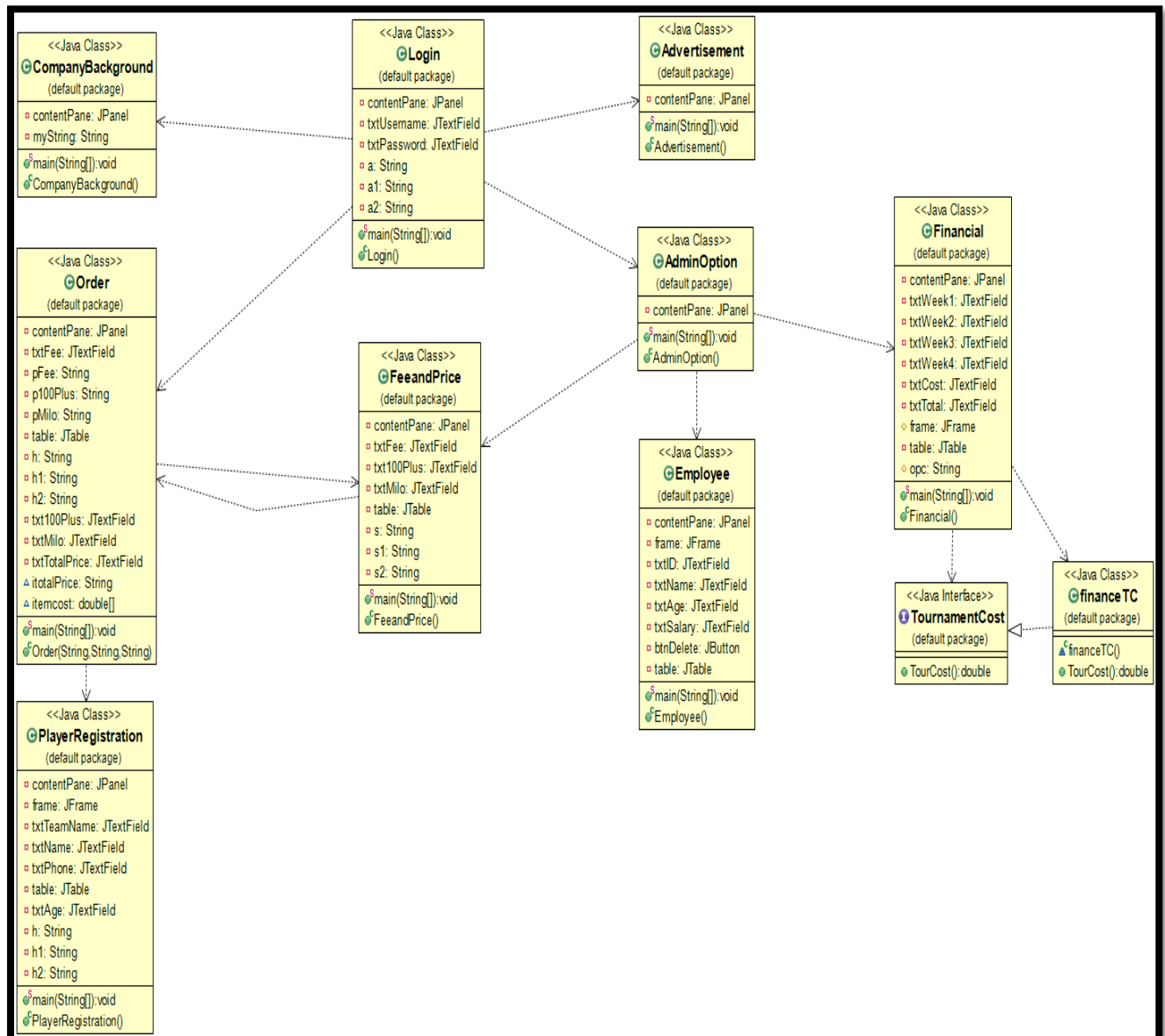
## UML Diagram

### Sports Event / Business

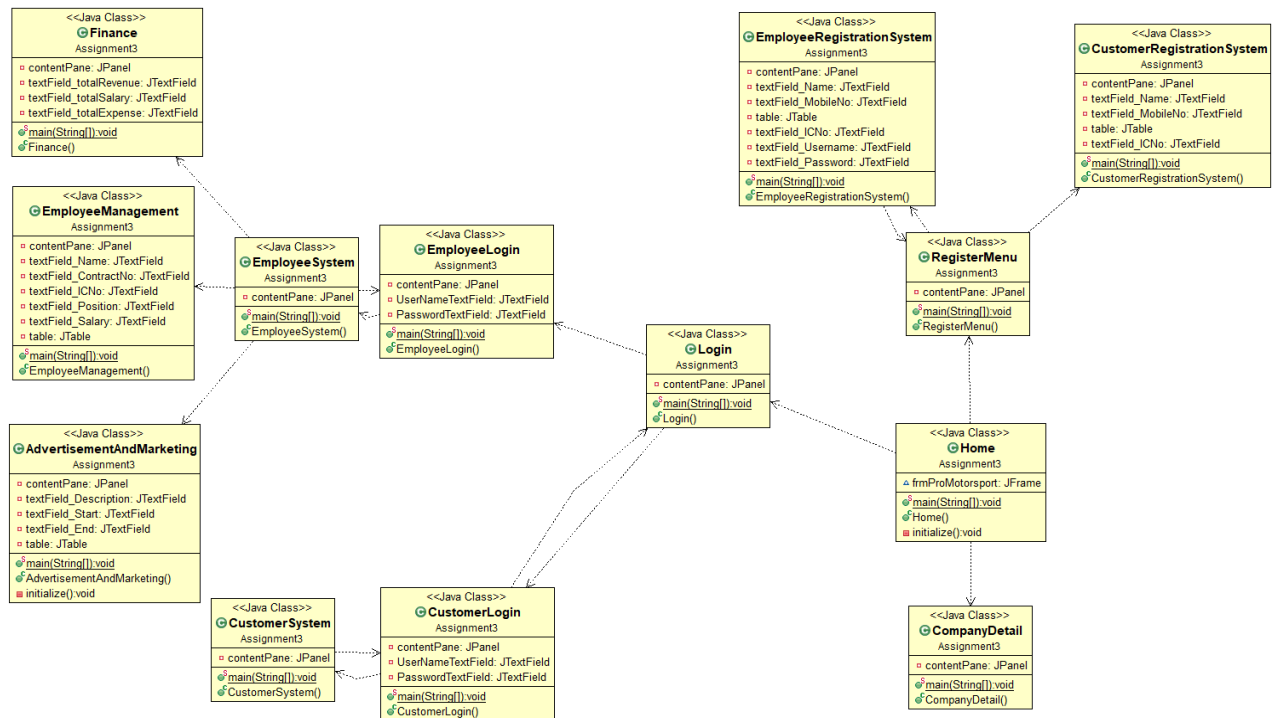
#### Main Page



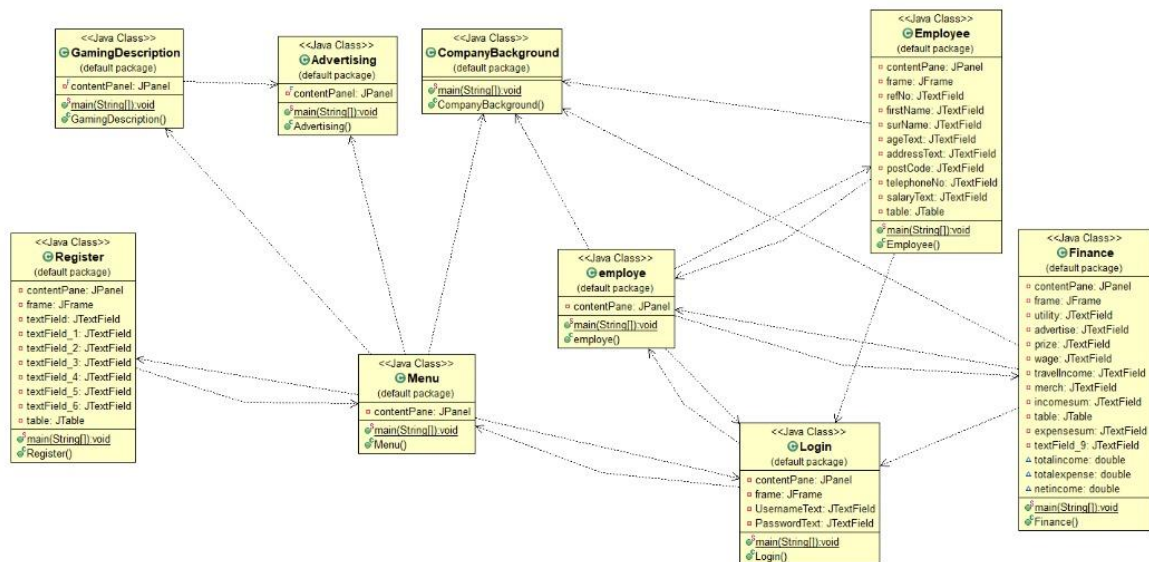
# 1. Futsal Centre (Muhamad Hazman Bin Haris 278632)



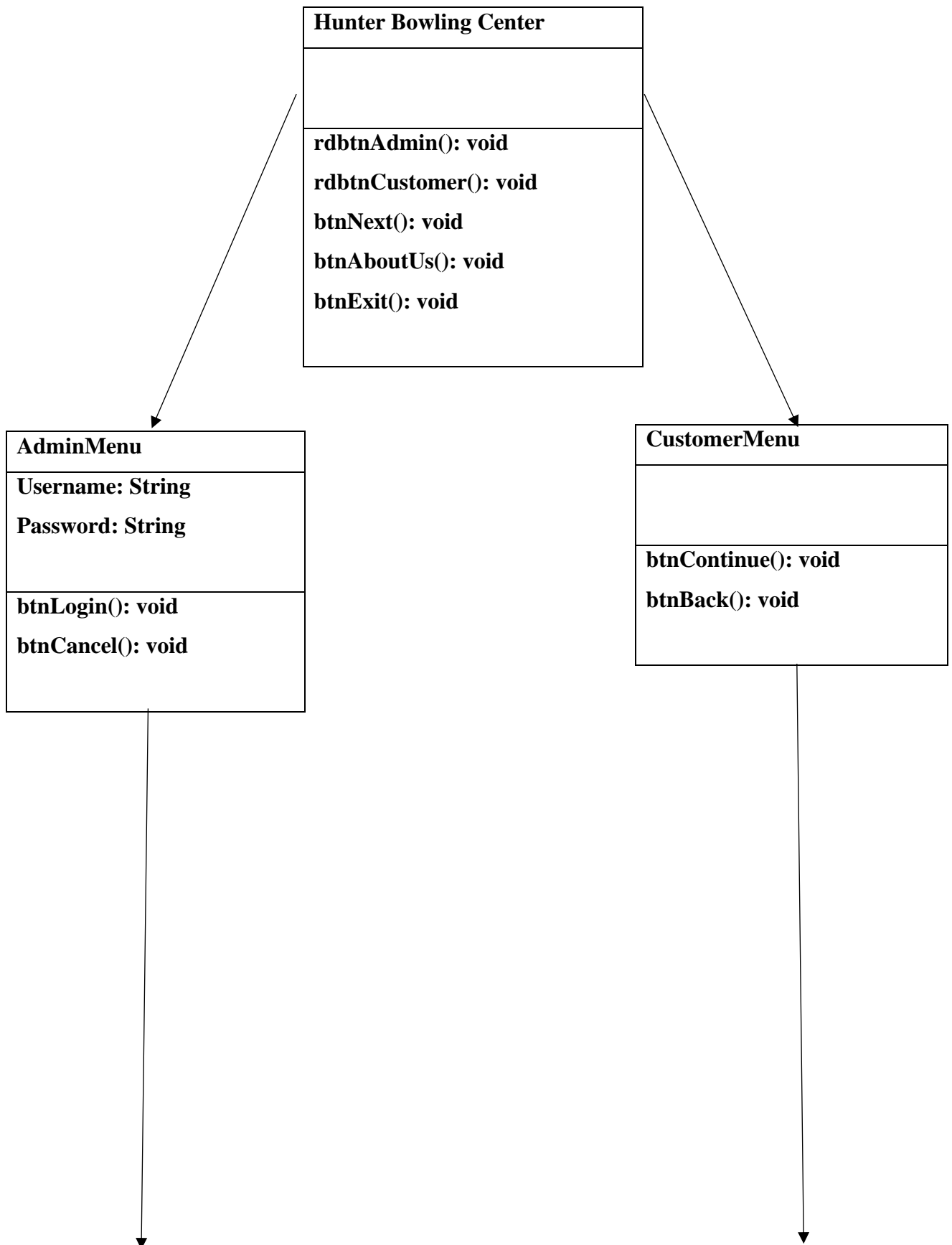
## 2. Car Racing (Pee Foo Ye 278632)



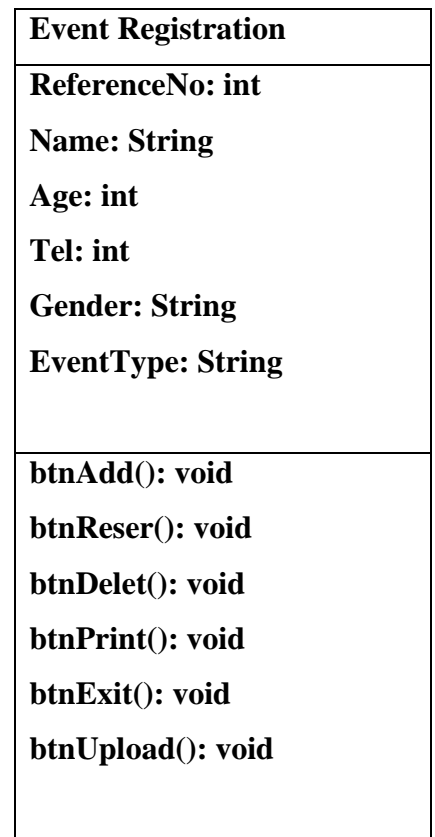
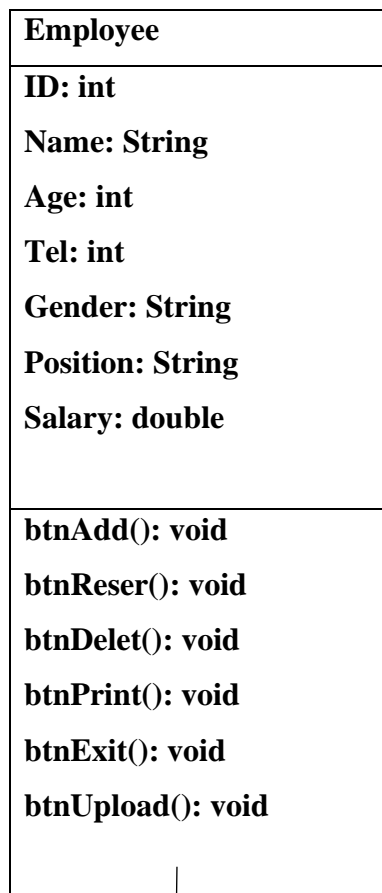
## 3. Gaming (Muhammad Hidayat Bin Ibrahim 279395)

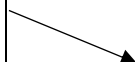
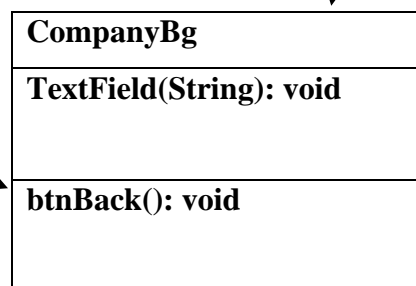
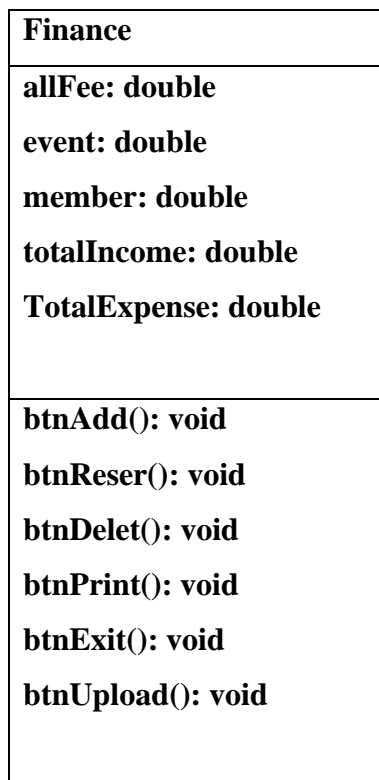
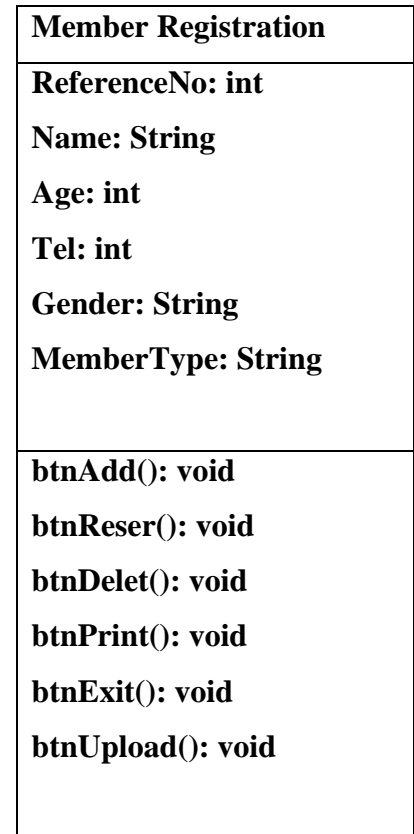
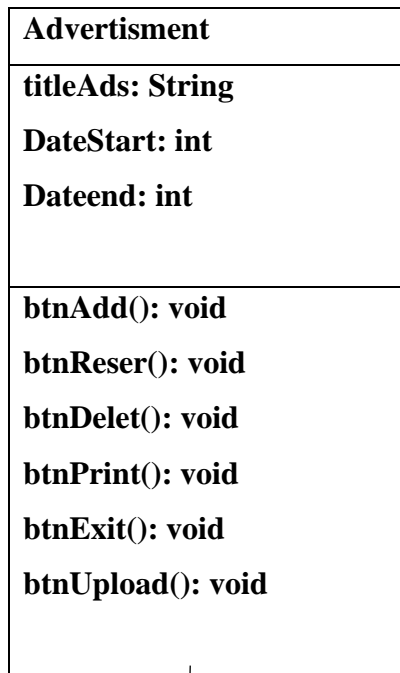


#### 4. Gaming (Muhammad Syarif Bin Dollah 279271)







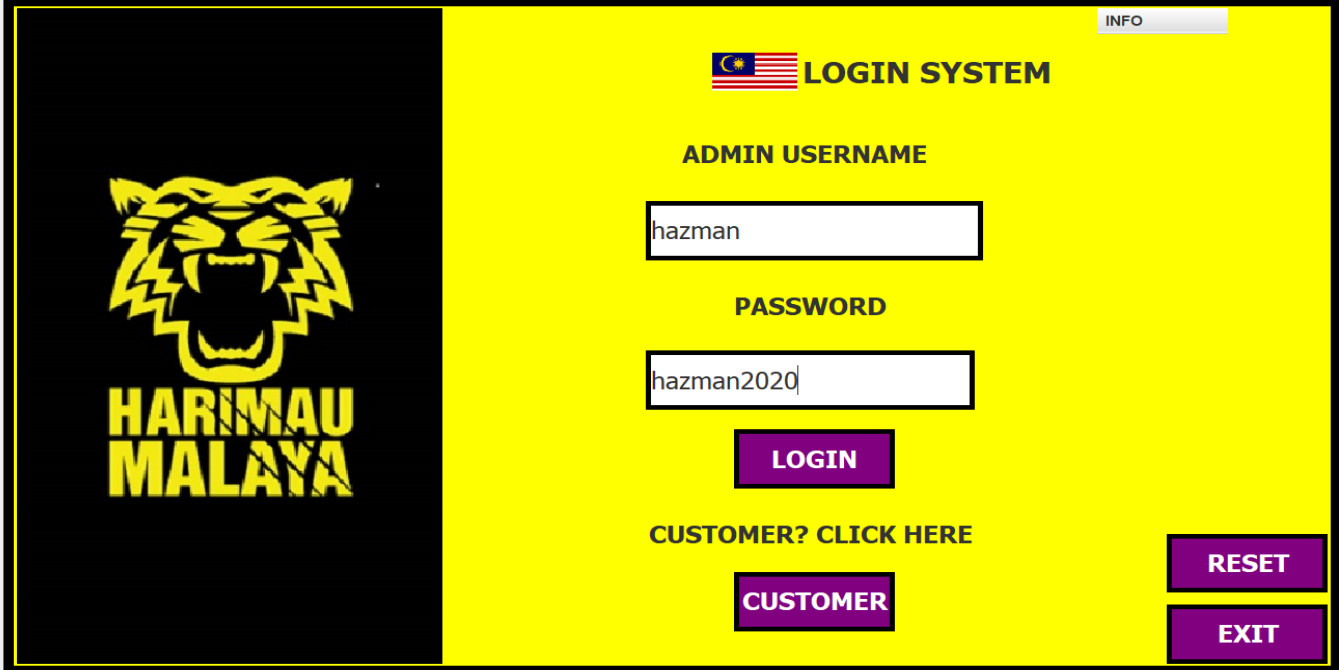


## Program Description

### 1. Futsal Centre (Muhamad Hazman Bin Haris 278632)

#### 3.1 ADMIN

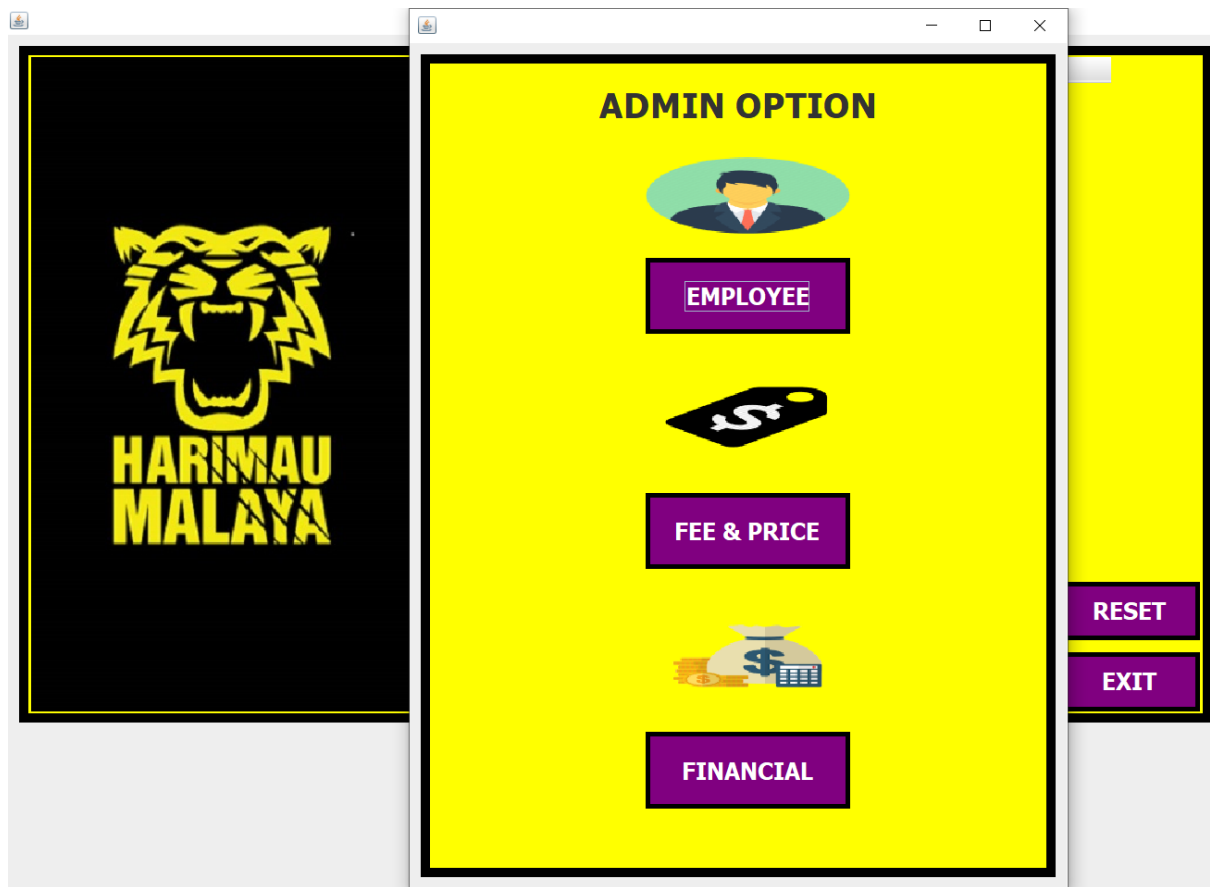
##### 3.1.1 LOGIN



The screenshot displays a web application titled "LOGIN SYSTEM" with a Malaysian flag icon. The interface is split into a black left sidebar and a yellow main content area. The sidebar features a yellow tiger logo and the text "HARIMAU MALAYA". The main area contains an "ADMIN USERNAME" field with the value "hazman", a "PASSWORD" field with the value "hazman2020", and a "LOGIN" button. Below these is a link "CUSTOMER? CLICK HERE" and a "CUSTOMER" button. On the right side of the main area, there are "RESET" and "EXIT" buttons. An "INFO" tab is visible in the top right corner.

1. For employee who works as company admins, to access the admin section, you first need to enter a username and password.

### 3.1.2 ADMIN OPTION



1. After successfully entering the username and password, the admin will be taken to the admin options section.
2. In this section, you can select the section you want to enter. For example, there are three options, which is employee, fee and price, and financial.

### 3.1.3 EMPLOYEE

ID NUMBER	NAME	AGE	POSITION	SALARY (RM)
HH020800	HAZMAN	25	Event Manager	3500
BP045726	DZUL	25	Assisstant Manag.	2800
AO270541	LUQMAN	23	Logistic Manager	2400
TW057280	AMMAR	22	Marketing Coordi...	2000
KD770268	SYED	20	Game Day Staff	1500

1. On the employee section, the admin can enter the employee's name, age, position, and salary.
2. Then, you (admin) can press the add button to add the details to the table provided.
3. If there is other employee information that needs to be added, you can repeat the same steps.
4. After entering and adding all the employee details, you can upload the information into a text document by pressing the upload button.

### 3.1.3 FINANCIAL

**FINANCIAL**

**INCOME (RM)**

WEEK 1

WEEK 2

WEEK 3

WEEK 4

**TOURNAMENT COST**

**TOTAL**

**RESET**

WEEK 1	WEEK 2	WEEK 3	WEEK 4	TOUR. COST	TOTAL
2500	5000	4500	7000	RM 7000.00	12000.0

**ADD** **UPLOAD** **EXIT**

1. On the financial section, the admin can enter the income on a weekly basis for the month.
2. For example, income for week 1, week 2, week 3, and week 4. Next, the operating cost for running a futsal event can also be included by the admin.
3. It will help to calculate the total income for the month by adding the income on a weekly basis and subtracting the costs used to run the contest.

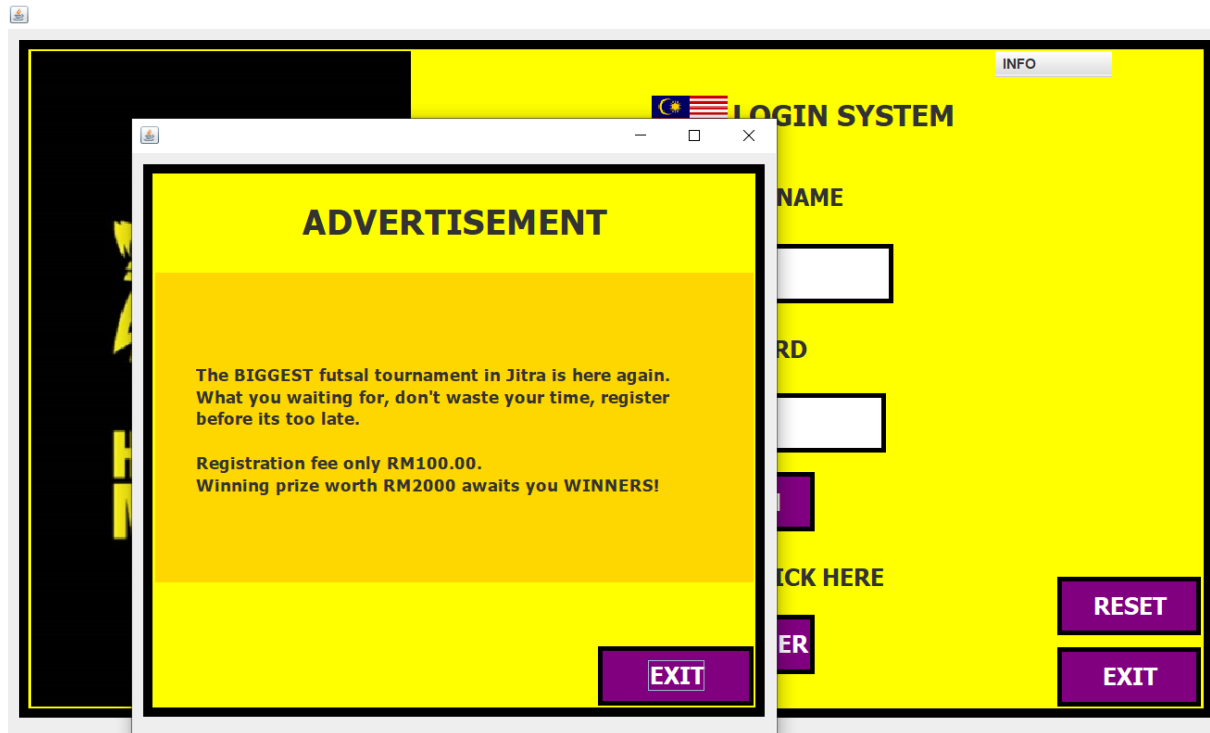
### 3.1.5 FEE AND PRICE

FEE	100 PLUS	MILO CHOCO BAR
100	3.50	1

1. In the fee and price section, the admin can set the price. The fee for the registration of futsal competitions can be entered by the admin in the space provided.
2. This is to set the fees to be paid by the customer which is the participant. In addition, the admin can also set prices for drink and food sold such as 100 Plus and Milo Choco Bar.
3. The price entered is also intended to set the selling price of the item. This will be able to prevent the occurrence of mistakes or dissatisfaction among customers because the price for the registration fee and the price of goods for sale have been set.

## 3.2 USER

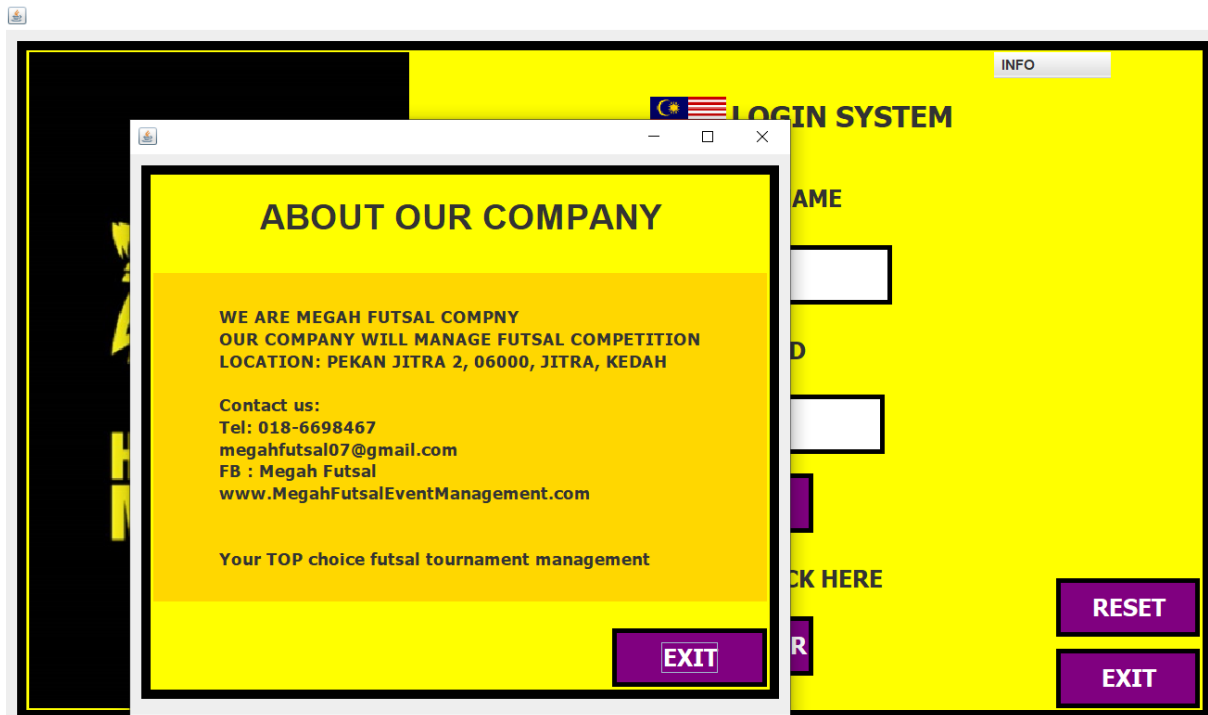
### 3.2.1 ADVERTISEMENT



1. To find out more about the competition, customers can access the advertisement section on the login section.
2. Customers can press the info button located at the top of the login section.
3. Then, customers can click on the advertisement to find out information about the contest being conducted.
4. The relevant information will be displayed.



### 3.2.2 COMPANY BACKGROUND



1. To find out information about the company's background, customers can access it on the login section.
2. Customers can press the info button located on the top of the login section. Then the customer can select the company background.
3. The relevant information will be displayed.

### 3.2.3 REGISTRATION FEE AND ORDER

**REGISTRATION FEE & ORDER**

**Registration Fee**

100

☒ 100 PLUS 12

☒ MILO CHOCO BAR 12

**TOTAL** RM 154.00

FEE	100 PLUS	PRICE	MILO	PRICE	TOTAL
100	100 PLUS	42.0	MILO CHOCO BAR	12.0	RM 154.00

**ORDER** **DELETE** **RESET** **UPLOAD** **NEXT** **EXIT**

1. On the registration and ordering fee section, customers can pay a fee and choose to purchase food and beverages sold or not.
2. The food sold is Milo Choco Bar, while the drinks sold are 100 Plus.
3. If you want to buy food or drink, you can click on the box to the left of the name of the drink or food.
4. Then, you can enter the quantity you want to buy.
5. Once you have finished entering the quantity, you need to press the Total button to get the total price.
6. You can press the delete button to discard the order, or press the reset button to refill from scratch about your order.
7. Finally, if you are satisfied with your order, you can press the order button so that the order information is entered in the table provided.

### 3.2.4 PLAYER REGISTRATION

PLAYER REGISTRATION

TEAM NAMEJUARA

NAMEFARHAN

AGE20

HP NO.0197752521

CATEGORYMale

TEAM NAME	NAME	AGE	HP NO.	CATEGORY
JUARA	HAZMAN	20	0186698467	Male
JUARA	DZULHUSNI	20	0174652154	Male
JUARA	LUQMAN	20	0135572682	Male
JUARA	FAIZ	20	0124657820	Male
JUARA	AIMAN	20	0118227497	Male
JUARA	SALIM	20	0198762018	Male
JUARA	SYED	20	0172100985	Male
JUARA	HAZIM	20	0143189472	Male
JUARA	MUKHLIS	20	0153278294	Male
JUARA	SOLEH	20	0162879022	Male
JUARA	AQIL	20	0176625029	Male
JUARA	FARHAN	20	0197752521	Male

ADD RECORD

RESET

UPLOAD

DELETE

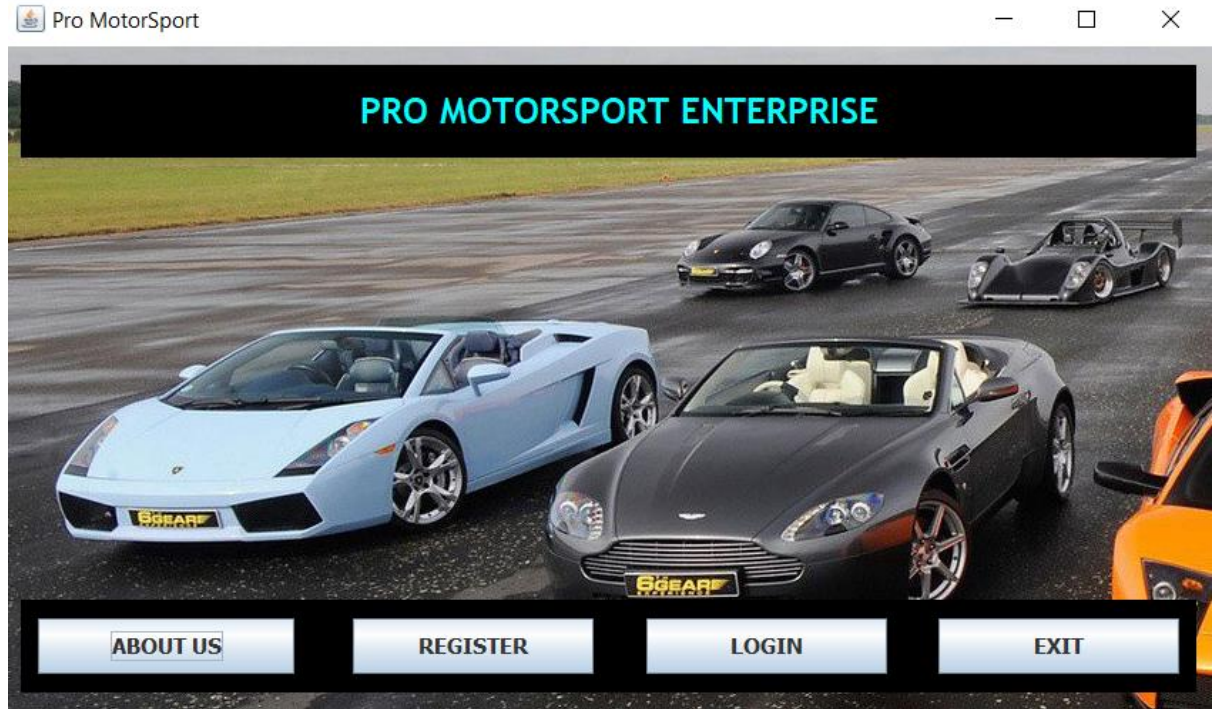
EXIT

1. In the player registration section, customers can register the names of group members who will participate in futsal competitions.
2. You are required to fill in the team's name, player name, player age, phone number, and category to be joined.
3. Once completed, you can press the ADD button to add the player information that has been filled into the table provided.
4. Then you can use the RESET button to make it easier for you to delete the details of the previous player in the details box and fill in the details of the next player.
5. If there is an error in the information when you add it to the table, you can select the row of the table that has the incorrect information and press the DELETE button to delete it.

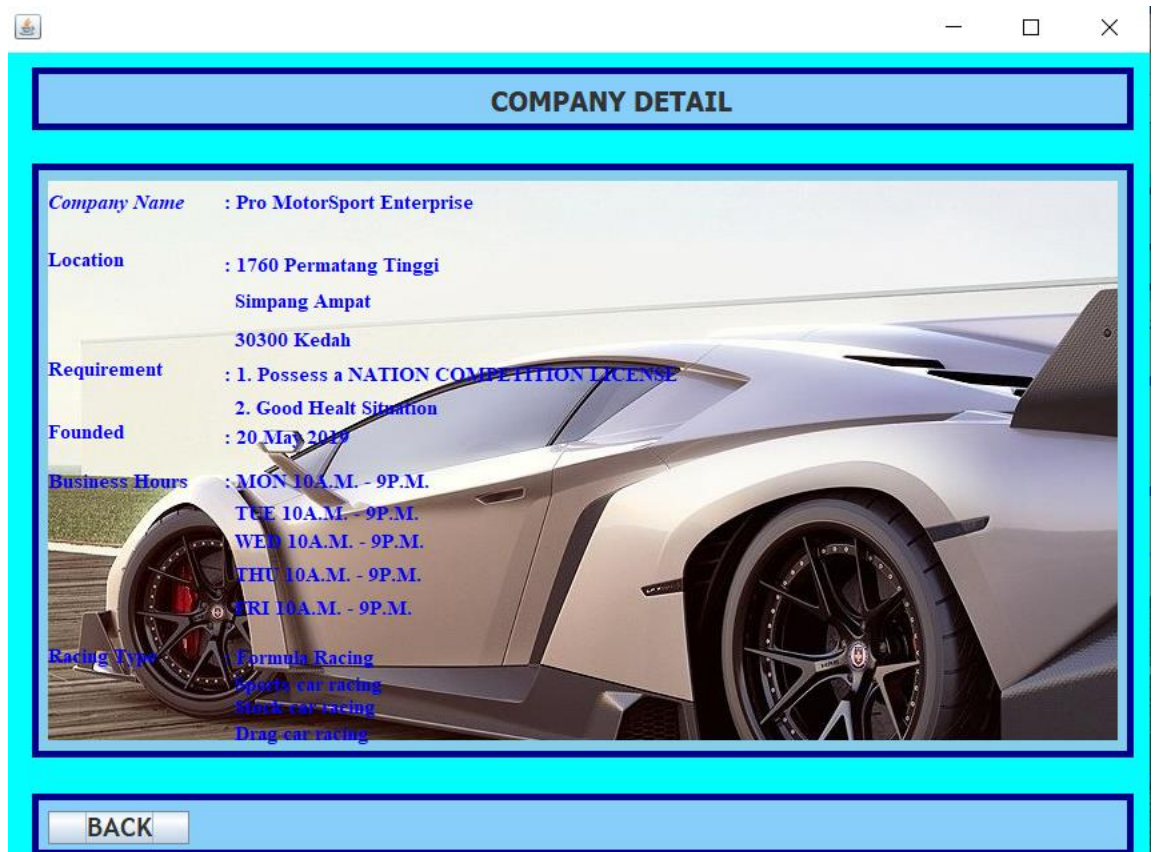
## 2. Car Racing (Pee Foo Ye 278632)

### 1. Home Page

The user may choose “ABOUT US”, “REGISTER”, “LOGIN” or “EXIT”.



2. If the user clicks on “ABOUT US”, then the company detail will be displayed.



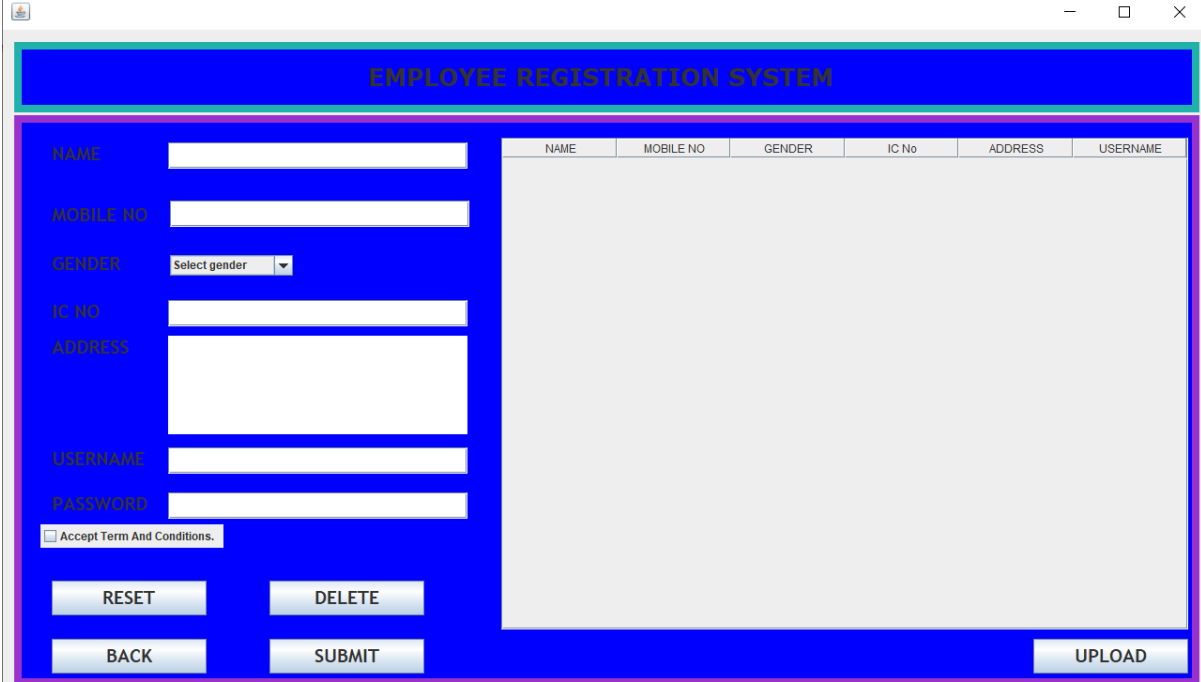
The user may click on “BACK” then the system will back to the home page.

### 3. Register

The user may clicks on “Register”. The system will ask for select your role whether you are employee or customer.

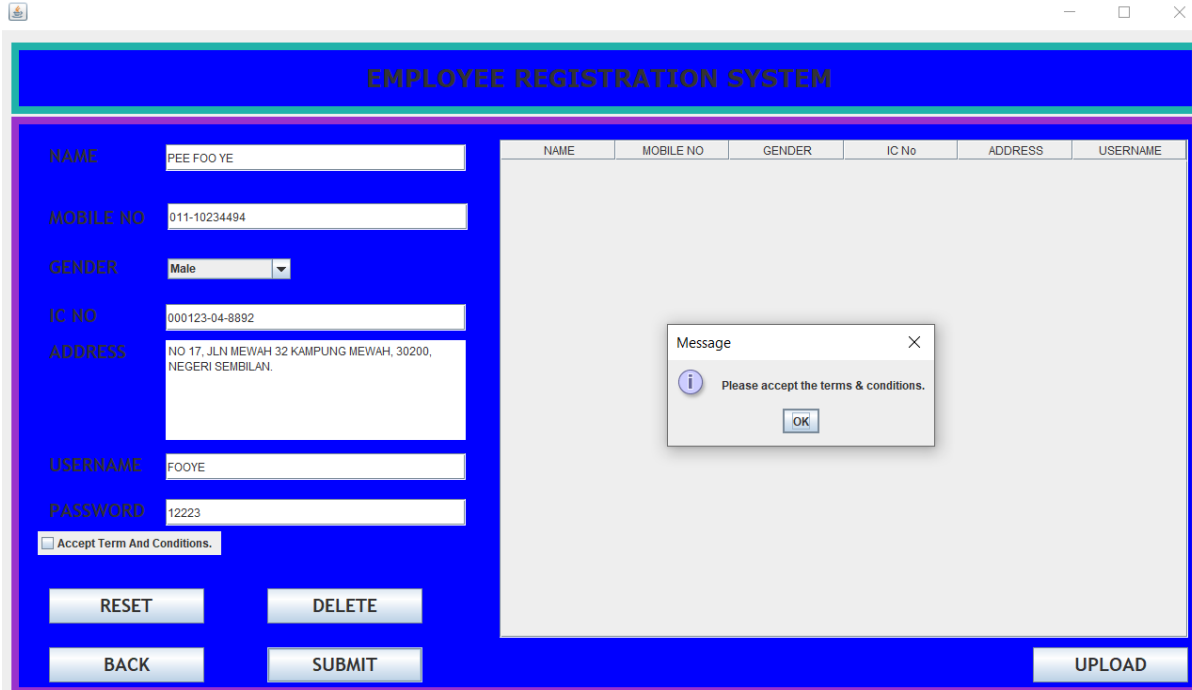


If the user choose “EMPLOYEE”, then the Employee Registration System will be shown out as below:



The screenshot shows a web application window titled "EMPLOYEE REGISTRATION SYSTEM". On the left, there is a registration form with the following fields: NAME, MOBILE NO, GENDER (with a dropdown menu showing "Select gender"), IC NO, ADDRESS, USERNAME, and PASSWORD. Below these fields is a checkbox labeled "Accept Term And Conditions.". At the bottom of the form are four buttons: RESET, DELETE, BACK, and SUBMIT. On the right side of the window is a table with the following headers: NAME, MOBILE NO, GENDER, IC No, ADDRESS, and USERNAME. The table is currently empty. At the bottom right of the window is an "UPLOAD" button.

The user may fill in the name, mobile no, gender, identity card no, address, username and password. Then the user must select the “Accept Terms and Conditions” before submit. If the user failed to select, the system will remind the user.



This screenshot shows the same "EMPLOYEE REGISTRATION SYSTEM" interface, but with the registration form filled out. The fields contain the following data: NAME: PEE FOO YE, MOBILE NO: 011-10234494, GENDER: Male, IC NO: 000123-04-8892, ADDRESS: NO 17, JLN MEWAH 32 KAMPUNG MEWAH, 30200, NEGERI SEMBILAN, USERNAME: FOOYE, and PASSWORD: 12223. The "Accept Term And Conditions." checkbox is still unchecked. A message dialog box is displayed in the center of the window with the text "Please accept the terms & conditions." and an "OK" button. The table on the right remains empty, and the "UPLOAD" button is still present at the bottom right.

The user may click on “RESET” button, then the text field will be reset to empty.

The screenshot shows the 'EMPLOYEE REGISTRATION SYSTEM' window. On the left is a registration form with fields for NAME, MOBILE NO, GENDER (a dropdown menu), IC NO, ADDRESS, USERNAME, and PASSWORD. Below these fields is a checkbox for 'Accept Term And Conditions.' and four buttons: RESET, DELETE, BACK, and SUBMIT. On the right is a table with the following data:

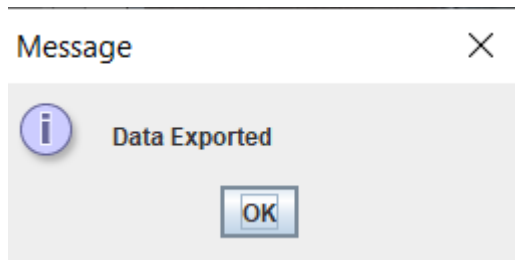
NAME	MOBILE NO	GENDER	IC No	ADDRESS	USERNAME
PEE FOO YE	011-10234494	000123-04-8892	Male	NO 17, JLN MEWAH...	FOOYE
PEE FOO YE	011-10234494	000123-04-8892	Male	NO 17, JLN MEWAH...	FOOYE
PEE FOO YE	011-10234494	000123-04-8892	Male	NO 17, JLN MEWAH...	FOOYE

An 'UPLOAD' button is located at the bottom right of the window.

To delete data, the user may click on the data on the list and click on “DELETE”. Then the data will be deleted.

This screenshot shows the same 'EMPLOYEE REGISTRATION SYSTEM' window as before, but with a message box overlaid in the center. The message box is titled 'Message' and contains the text 'Deleted successfully' with an 'OK' button. The registration form and table on the right remain visible in the background.

If the user clicks on “UPLOAD” button, the data will be export to the text file.



Employee - Notepad

File	Edit	Format	View	Help			
PEE	FOO	YE	011-10234494	000123-04-8892	Male	NO 17, JLN MEWAH 32 KAMPUNG MEWAH, 30200, NEGERI SEMBILAN.	FOOYE
PEE	FOO	YE	011-10234494	000123-04-8892	Male	NO 17, JLN MEWAH 32 KAMPUNG MEWAH, 30200, NEGERI SEMBILAN.	FOOYE

If the user is a customer, then he/she may clicks on “CUSTOMER” to enter the Customer Registration System.



**Customer Registration System**

Name:

MOBILE NO:

GENDER:

IC No:

ADDRESS:

RACING TYPE:

CAR PROVIDED:

FEE(RM):

☐ Accept Term And Conditions.

RESET REFUND

BACK SUBMIT

APPLY

NAME	MOBILE NO	GENDER	IC NO	ADDRESS	FEE
------	-----------	--------	-------	---------	-----

Then, the user has to fill in all the information and accept the term and conditions, then click on “SUBMIT” and the data will be displayed in the table. (Every racing type have different car provided)

**Customer Registration System**

Name:

MOBILE NO:

GENDER:

IC No:

ADDRESS:

RACING TYPE:

CAR PROVIDED:

FEE(RM):

☒ Accept Term And Conditions.

RESET REFUND

BACK SUBMIT

APPLY

NAME	MOBILE NO	GENDER	IC NO	ADDRESS	FEE
Rock	013-7772748	Male	961123-05-4453	No 20, Jalan Bangsa...	250000
Cindy	012-413123321	Female	940332-05-3392	No 22, Jalan Bangsa...	430000

If the user want to refund, then click on “REFUND”, the data will be deleted.

NAME	MOBILE NO	GENDER	IC NO	ADDRESS	FEE
Cindy	012-413123321	Female	940332-05-3392	No 22, Jalan Bangs...	430000

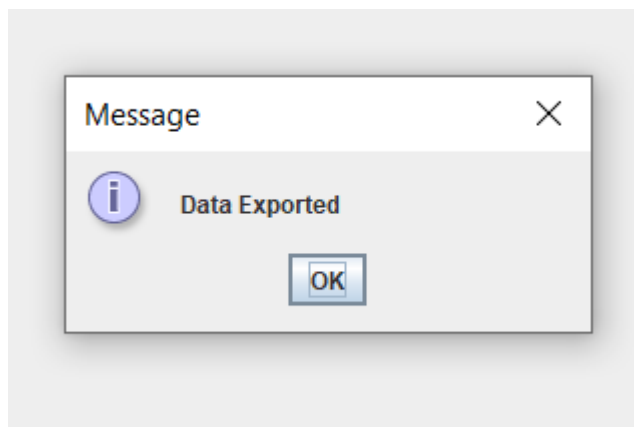
Message

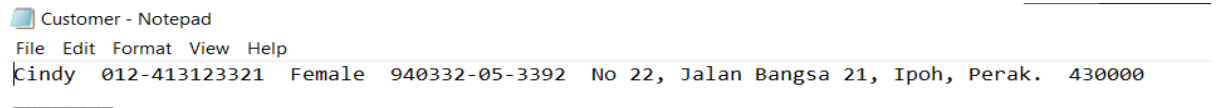
i

Refund successfully

OK

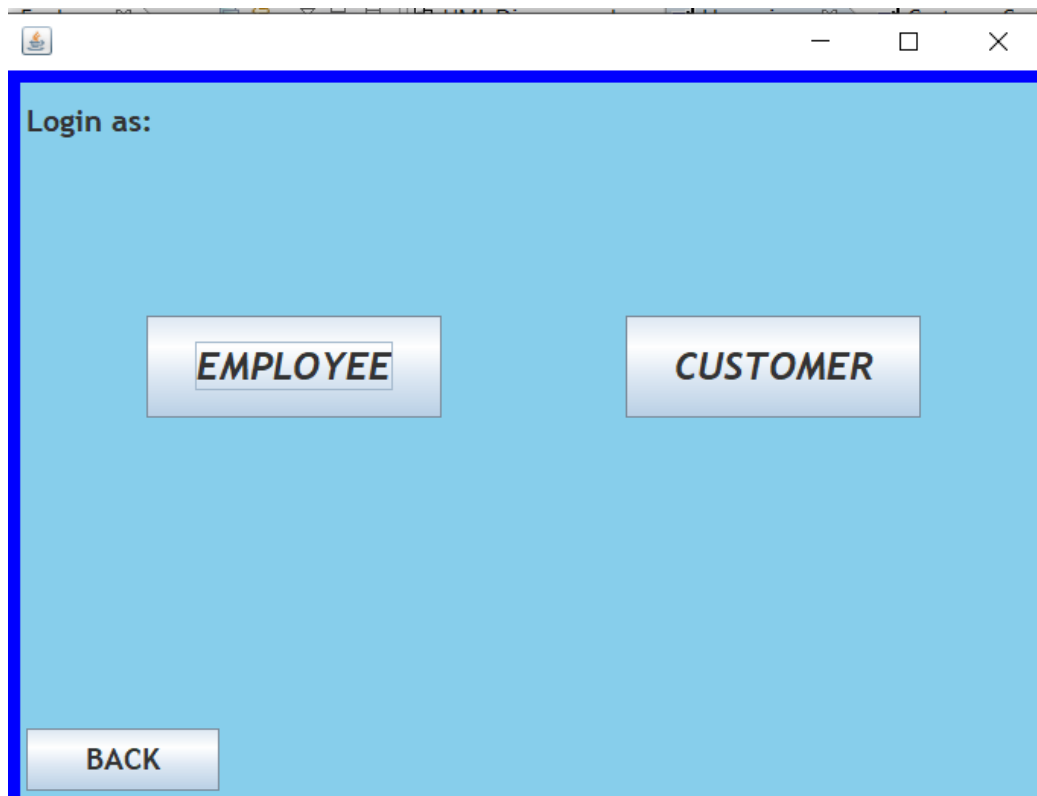
If the user click on “APPLY”, then the data will be exported to the text file.



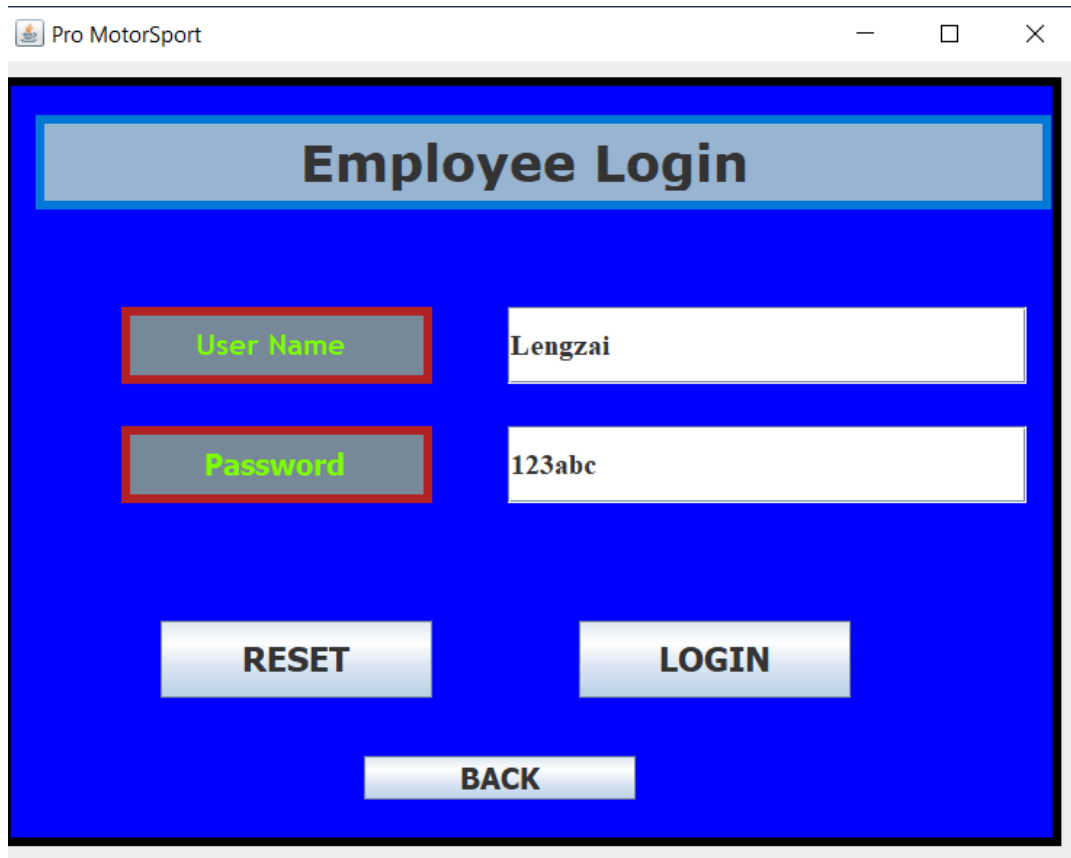


#### 4. Login

The user may click on “LOGIN” button in the home page to enter the Login menu, then the user may choose to login as employee or customer.



If the user click on “EMPLOYEE” button, the login page will be displayed. After that, the user can type in the username and the password, then click on “LOGIN”.



The screenshot shows a web browser window titled "Pro MotorSport". The main content area has a blue background and is titled "Employee Login" in a light blue header. Below the header, there are two input fields: "User Name" with the value "Lengzai" and "Password" with the value "123abc". Both labels are highlighted with red boxes. Below the input fields, there are three buttons: "RESET", "LOGIN", and "BACK".

Employee Login	
User Name	Lengzai
Password	123abc
RESET	LOGIN
BACK	

Then the employee information will be displayed. The user may choose Employee Management, Finance, Advertisement or Logout.



The screenshot shows a web browser window titled "Pro MotorSport". The main content area has a dark blue background and is titled "Employee Information" in a light blue header. Below the header, there is a table displaying employee information. At the bottom, there are four buttons: "Employee Management", "Finance", "Advertisement", and "Log out".

Employee Information	
NAME	Lengzai
CONTRACT NO	011-1233123123
IC NO	001223-04-2313
POSITION	Clerk
SALARY (RM)	2000.00

Employee Management Finance Advertisement Log out

In the employee management system, if the user want to add employee, then the user may key in the information then press “ADD”.

Employee Management

NAME

CONTRACT NO

IC NO

POSITION

SALARY (RM)

ADD

RESET

DELETE

PRINT

BACK

Name	Contract No	IC No	Position	Salary (RM)
Raymond	011-132213122	000123-12-1233	Manager	10000.00
Ali	012-14235132	000321-32-3212	Assistant	2000.00
Terence	013-4457890	98231-23-4231	Admin	4000.00
Bi	011-11231412	971231-12-32123	Line Stiper	5000.00
Raygor	019-7708877	920415-01-3210	Vehicle Paint Sprayer	7000.00
Jay	017-7730121	900123-04-3222	Security	4000.00
Lawrance	011-204321244	921101-04-0221	Maintanance manager	10000.00

If the user wants to print the data. Then press “PRINT” button. Then the printer system will be shown as below.

	017-7730121	900123-04-3222	Security	4000.00
ance	011-204321244	921101-04-0221	Maintanance manager	10000.00

Print

General

Page Setup

Appearance

Print Service

Name: Canon MP230 series

Properties...

Status: Accepting jobs

Type:

Info: ☐ Print To File

Print Range

☒ All

☐ Pages 1 To 1

Copies

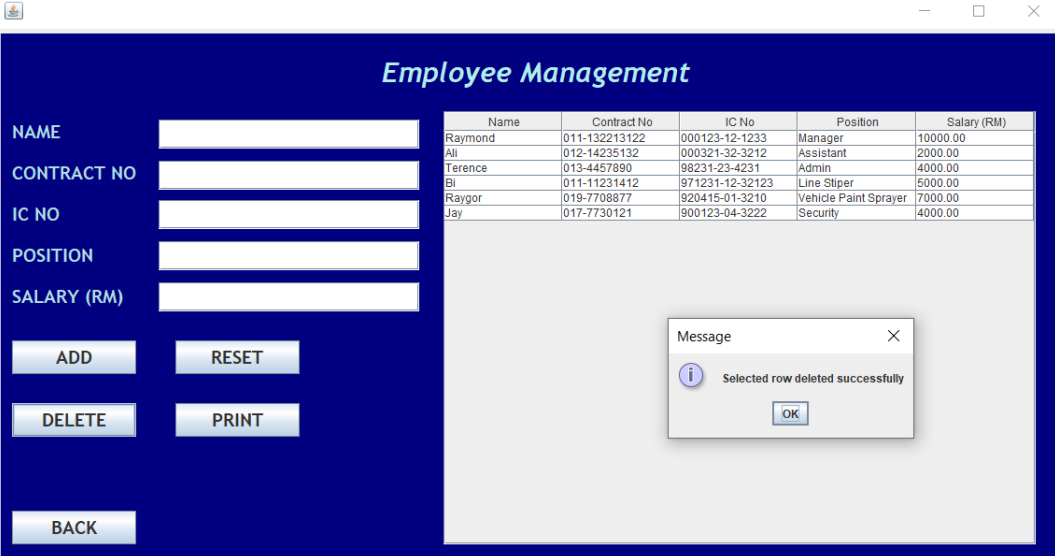
Number of copies: 1

☒ Collate

Print

Cancel

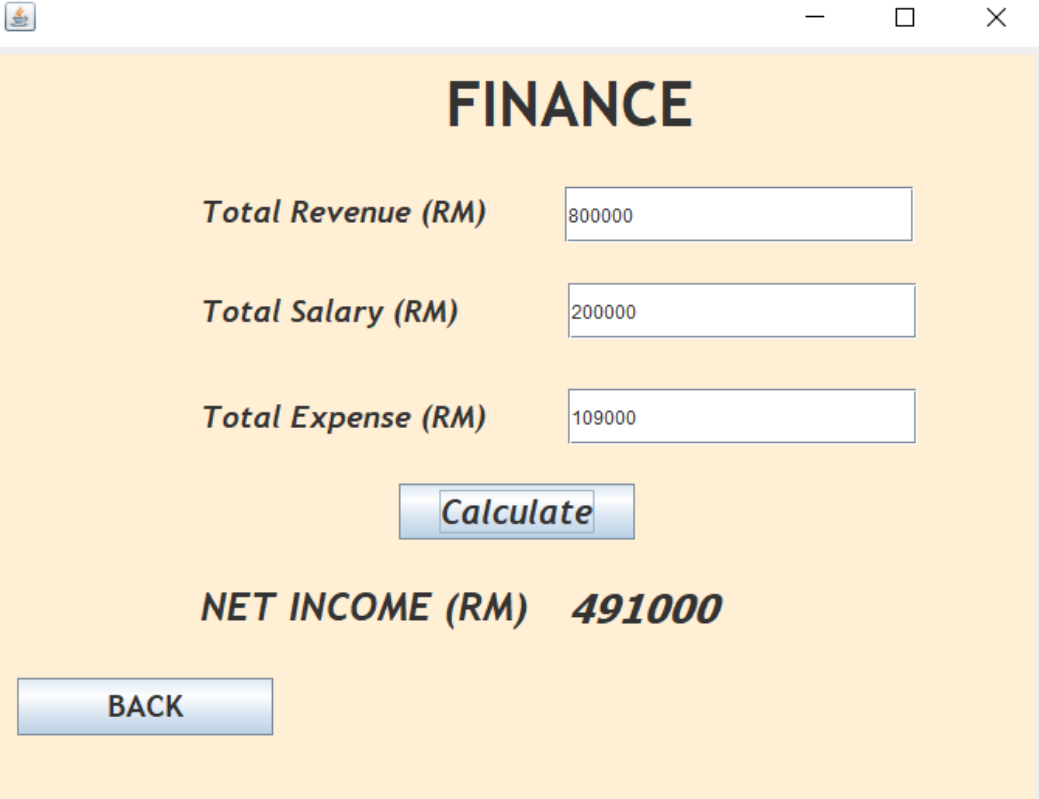
The user also can delete the button by select the row in the table, then click on “DELETE”.



The screenshot shows the 'Employee Management' window. On the left, there are input fields for NAME, CONTRACT NO, IC NO, POSITION, and SALARY (RM), along with buttons for ADD, RESET, DELETE, PRINT, and BACK. On the right, there is a table of employees. A message box is displayed in the center, stating 'Selected row deleted successfully'.

Name	Contract No	IC No	Position	Salary (RM)
Raymond	011-132213122	000123-12-1233	Manager	10000.00
Aji	012-14235132	000321-32-3212	Assistant	2000.00
Terence	013-4457890	98231-23-4231	Admin	4000.00
Bi	011-11231412	971231-12-32123	Line Stiper	5000.00
Raygor	019-7708877	920415-01-3210	Vehicle Paint Sprayer	7000.00
Jay	017-7730121	900123-04-3222	Security	4000.00

The user can click “BACK” to go back to the employee system page, then press “FINANCE”. Then key in the total revenue, total salary and total expenses, then press “Calculate”. After that the total net income will be shown.



The screenshot shows the 'FINANCE' window. It has input fields for 'Total Revenue (RM)', 'Total Salary (RM)', and 'Total Expense (RM)'. Below these is a 'Calculate' button. At the bottom, it displays the 'NET INCOME (RM)' as 491000. A 'BACK' button is located at the bottom left.

**FINANCE**

*Total Revenue (RM)* 800000

*Total Salary (RM)* 200000

*Total Expense (RM)* 109000

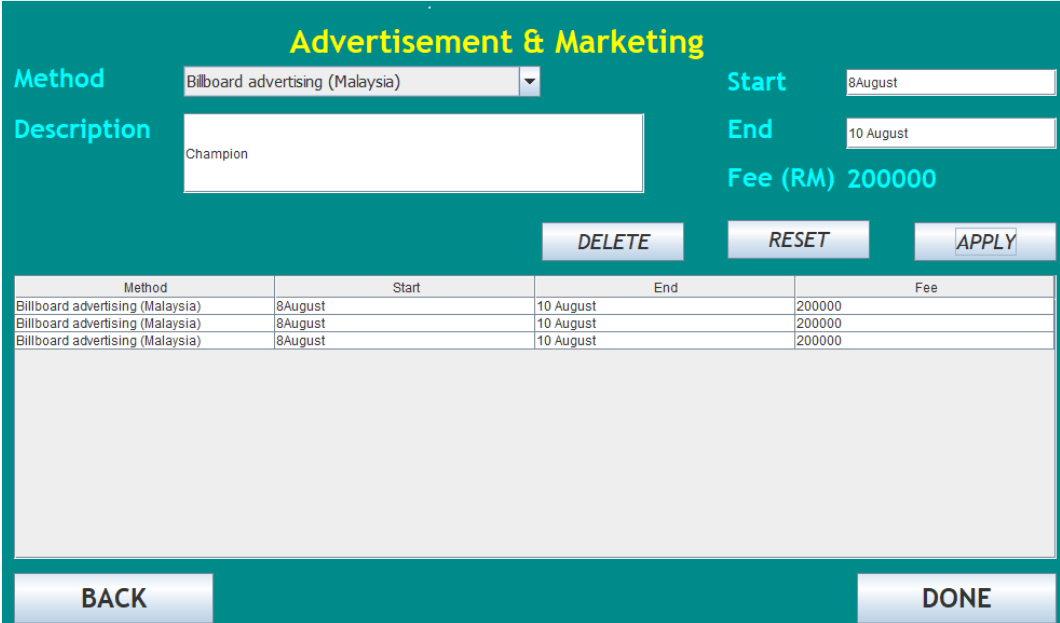
**Calculate**

**NET INCOME (RM) 491000**

**BACK**

After that, click on “BACK” and select “ADVERTISEMENT” to enter the advertisement and marketing system.

Then the user may choose the advertisement and marketing method, type in the description, start date, end date. The fee will be auto generated. Click on “APPLY”, the information will be displayed in the table.



**Advertisement & Marketing**

**Method** Billboard advertising (Malaysia) **Start** 8August

**Description** Champion **End** 10 August

**Fee (RM)** 200000

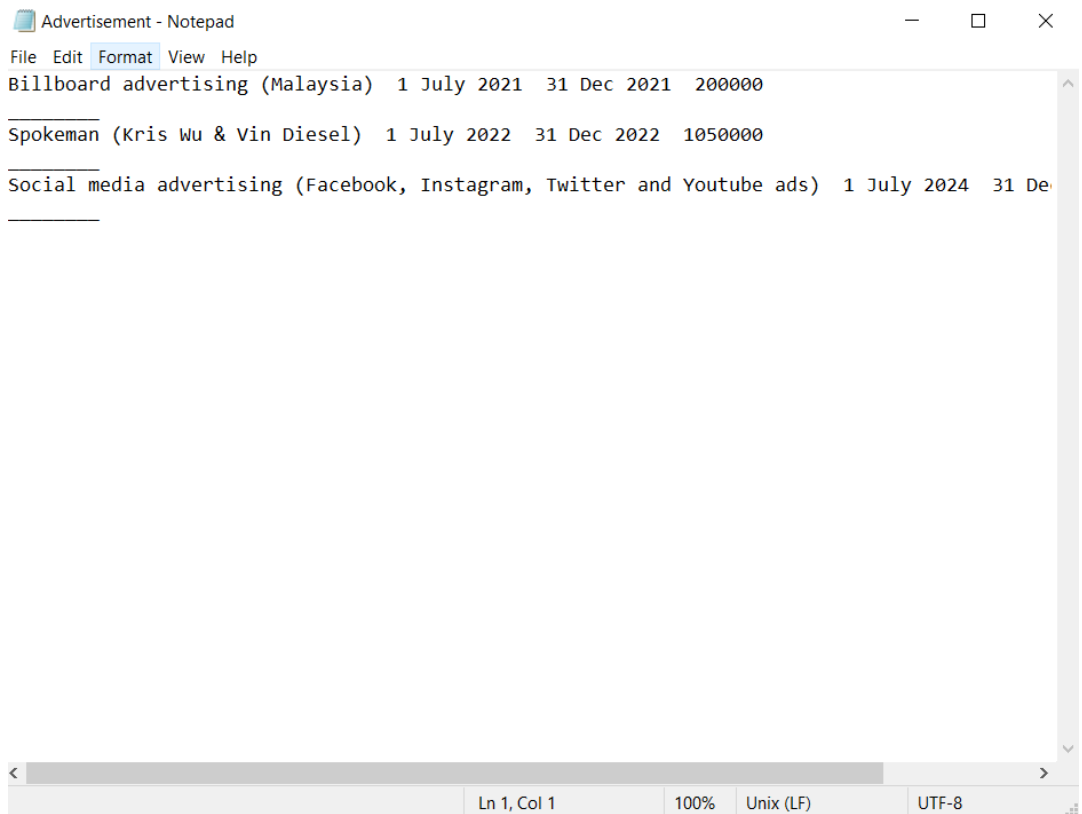
**DELETE** **RESET** **APPLY**

Method	Start	End	Fee
Billboard advertising (Malaysia)	8August	10 August	200000
Billboard advertising (Malaysia)	8August	10 August	200000
Billboard advertising (Malaysia)	8August	10 August	200000

**BACK** **DONE**

The user also can delete the data or reset by clicking the button.

After that, click on “DONE” and the data will be exported in the text file.



```
Advertisement - Notepad
File Edit Format View Help
Billboard advertising (Malaysia) 1 July 2021 31 Dec 2021 200000
Spokeman (Kris Wu & Vin Diesel) 1 July 2022 31 Dec 2022 1050000
Social media advertising (Facebook, Instagram, Twitter and Youtube ads) 1 July 2024 31 Dec 2024 1000000
Ln 1, Col 1 100% Unix (LF) UTF-8
```

Then the user can click on “BACK” and Press “LOG OUT” to log out and Click on “Back” to the login menu.

If the user wants to login as a customer, then select “CUSTOMER” to enter the customer login system.

After that, enter the username and password, then login.



Pro MotorSport

## Customer Login

User Name	ShuaiGe
Password	123abc

**RESET** **LOGIN**

**BACK**

Then the customer information will be shown. In the system, the user can click on “REGISTER” to enter the customer registration system, or log out.

Customer Information

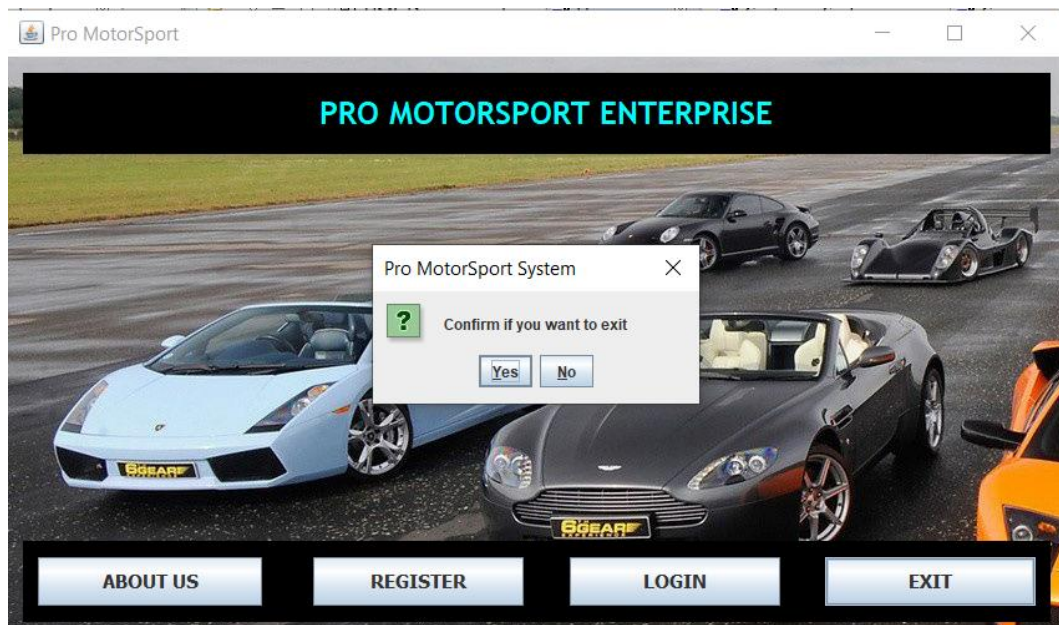
NAME	ShuaiGe
CONTRACT NO	012-11221114
IC NO	000412-02-0494
GENDER	MALE
RACING	SPORT CAR RACING
SITUATION	GOOD

**REGISTER** **Log out**

NAME	MOBILE NO	GENDER	IC NO	ADDRESS	FEE
------	-----------	--------	-------	---------	-----

## 5. Exit

The user may click on “EXIT” and click on “Yes” if the user confirms to exit the system.

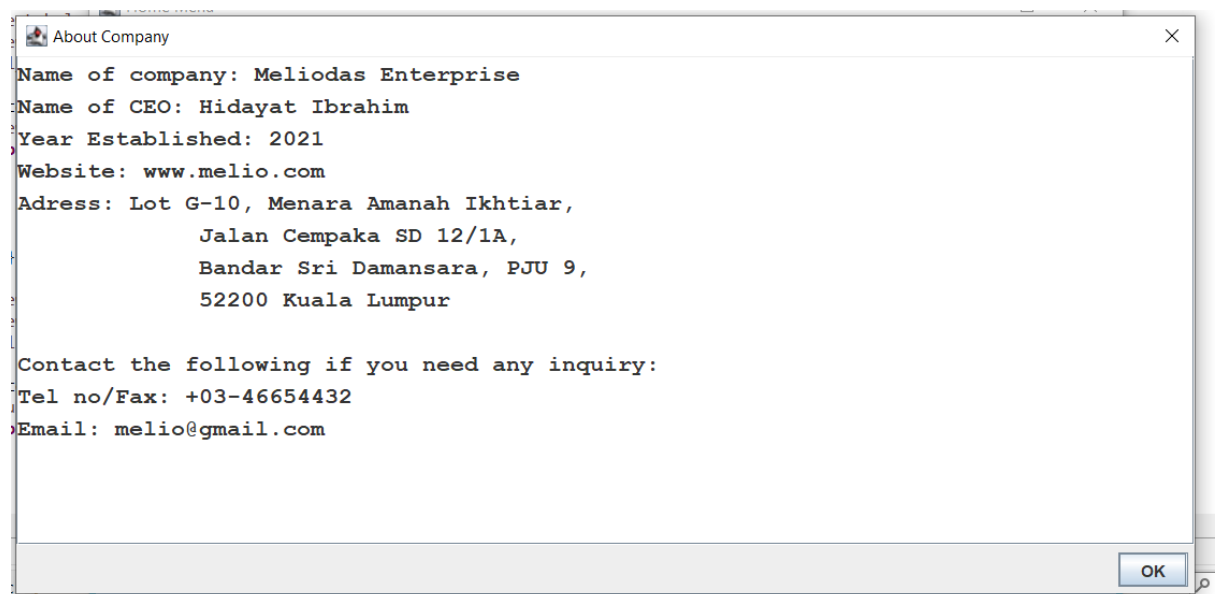


### 3. Gaming (Muhammad Hidayat Bin Ibrahim 279395)

Step 1: first page of the system is the home page of the system of Melio Enterprise. User can click the “Employee” button or “Customer” to go a specific page of the system. There is a menu bar on the top-left corner for users to go to a specific page of the system. In the menu, user can choose whether home which contain button “Exit” or “About Compony” at home or use can click “advertisement” or “Gaming Description” at product button.



Step 2: if the user click home and choose “about compny”, the program will bring to specific page. Then user just click ok to turn to menu page.



Step 3: if the user click product and choose “gaming decription”, the program will bring to specific page.Then user just click ok to turn to menu page.



Step 4: if the user click product and choose “Advertisement”, the program will bring to specific page. Then user just click ok to turn to menu page.



Step 5: If you want to register to this competition, you can just click to customer button for the registration. Then the program will bring user to Registration system. In this page, user can choose whether to click “Add Record” to add name, “Reset” to enter new name, “Delete” if the user wants to delete name, “Print” if user wants the hardcopy, “Upload” for save data in soft copy and “Home” to return in home page.

## Registration System

Ref Num

First Name

Surname

Address

Postcode

Telephone

Ic No.

Prove ID

Ref Num	First Name	Surname	Address	Postcode	Telephone	Date_Reg	Prove ID
1	dayat	d	lot	45800	0101010101	111212121	IC Number
2	ali	baba	lala	45900	123345	132131231...	IC Number
3	aba	sala	ddsa	91123	01023132	0132321	IC Number

UPLOAD

ADD RECORD

RESET

PRINT

DELETE

HOME

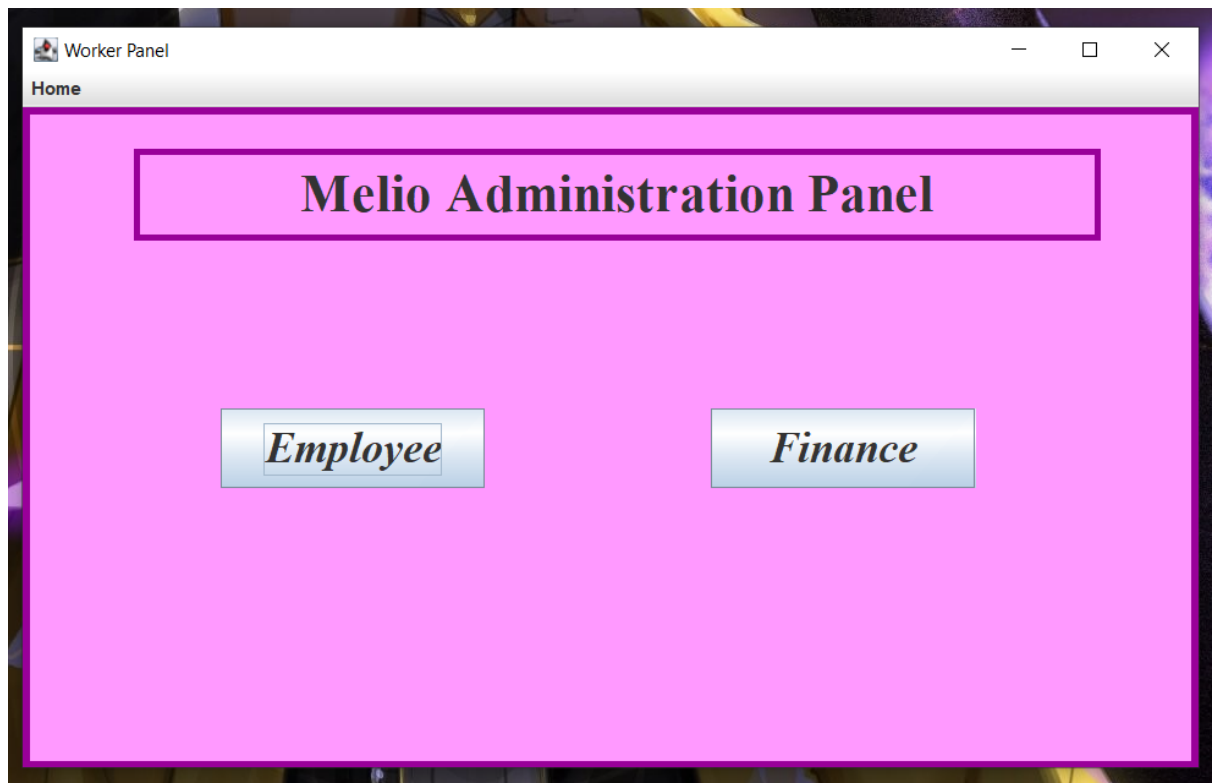
Step 6: If you are a worker for melio enterprise, you can just click to wmployee button for the enter to compony program Then the program will bring user to login to make sure you are employee of melio enterprise. This page contains 3 buttons, which first button “Login” if you enter the password correct you can go to the nect page, if you enter wrong password, you can click “Reset”, And if you want go to main page, just click “Home”



The screenshot shows a web browser window with the title "Login". The main content area has a light green background. At the top, there is a dark green rectangular box containing the text *Melio's Worker Login* in a white, italicized serif font. Below this, there are two rows of input fields. The first row has a label *Username* in a green box followed by a white text input field. The second row has a label *Password* in a green box followed by a white text input field. At the bottom of the form, there are three blue buttons with white text: "Login", "Reset", and "Home".



Step 7: If you enter correct password you can go to next page which employee page



Step 8: In this page, you can choose whether to choose employee or finance. And at the left corner, it has home button for return to login page if the user settle their work. If user click employee button, it will display employee management. In this page, user can choose whether to click “Add Record” to add name, “Reset” to enter new name, “Delete” if the user want to delete name, “Print” if user want the hardcopy, “Upload” for save data in soft copy and “Home” to return in home page.

The screenshot shows a web application window titled "Employee" with a navigation bar containing "Home" and "Product". The main content area is titled "Employee Management" and features a form on the left for adding or editing employee records, a table in the center displaying existing records, and a row of action buttons at the bottom.

**Form Fields:**

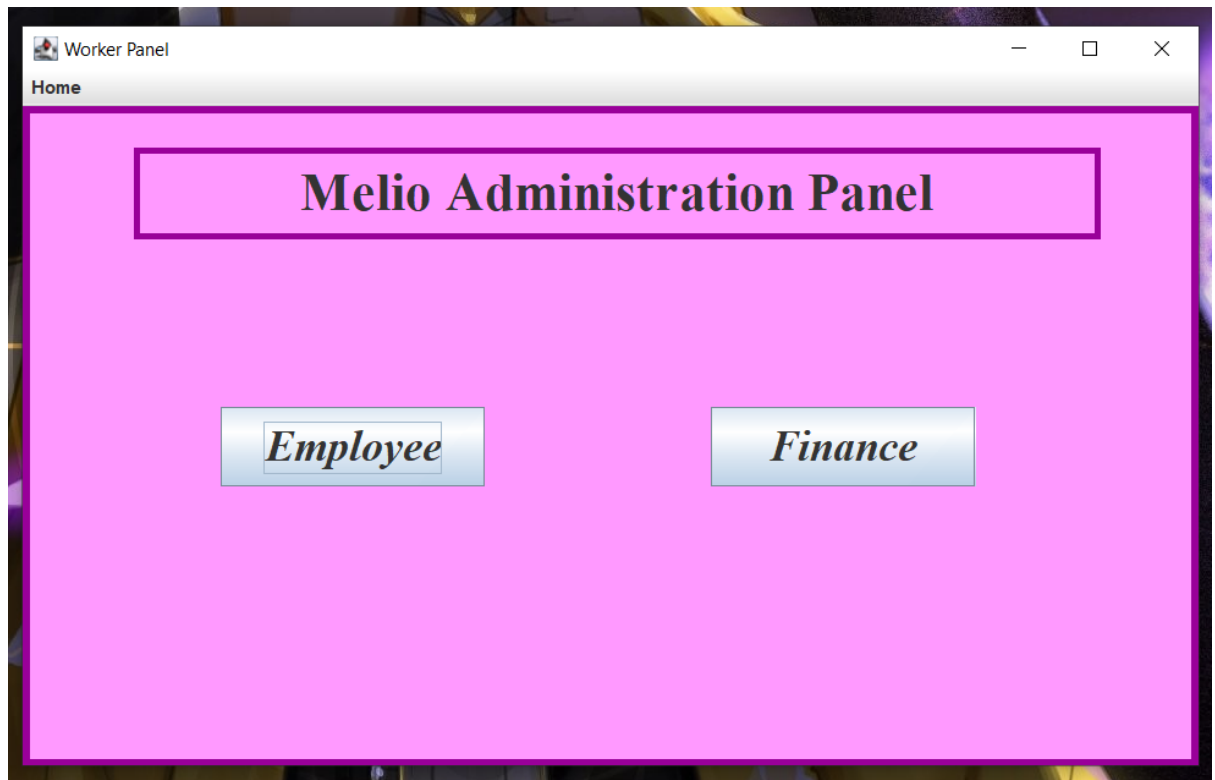
- Ref Num: 23
- First Name: baba
- Surname: lili
- Age: 54
- Address: ladsew
- Postcode: 10232
- Telephone: 010234234
- Salary(RM): 50
- Position: Cleaner (dropdown menu)

**Table:**

RefNo	First Name	Surname	Age	Address	Postcode	Tel No	Income(RM)	Position
1	da	da	21	da	1900	21323	122	Manager
2	lala	lili	20	dasd	10092	01023134	200	Cosultant
23	baba	lili	54	ladsew	10232	010234234	50	Cleaner

**Action Buttons:** ADD RECORD, CLEAR, PRINT, DELETE, BACK, and an UPLOAD button located above the bottom row.

Step 9; from melio administration you can choose finance to check finance for this company.



Step 10; In this page, user can choose wheter to click “Add Record” to add name, “Reset” to enter new name, “Delete” if the user want to delete name, “Print” if user want the hardcopy, “Upload” for save data in soft copy and “Home” to return in home page.

The screenshot shows a web application window titled "Finance" with "Home" and "Product" tabs. The main content area has a green background and a large green-bordered box containing the text "Finance". Below this, there is a form for adding records and a table of monthly expenses.

**Form Fields:**

- Month: Apr (dropdown)
- Utility Fee: 25
- Ads Fee: 25
- Prize Budget: 25
- Wages: 400
- Registration ...: 600
- Merch sale: 60
- total Income: 660.0
- total Expense: 475.0

**Table:**

Month	Utility	Ads	PrizeBudget	Wages	Registration L...	Merch Sales	Total Income	Total Expense
Jan	10	10	10	400	600	60	660.0	430.0
Feb	20	20	20	400	600	60	660.0	460.0
Mar	25	20	25	400	600	60	660.0	470.0
Apr	25	25	25	400	600	60	660.0	475.0

**Buttons:**

- ADD RECORD
- CLEAR
- PRINT
- DELETE
- BACK

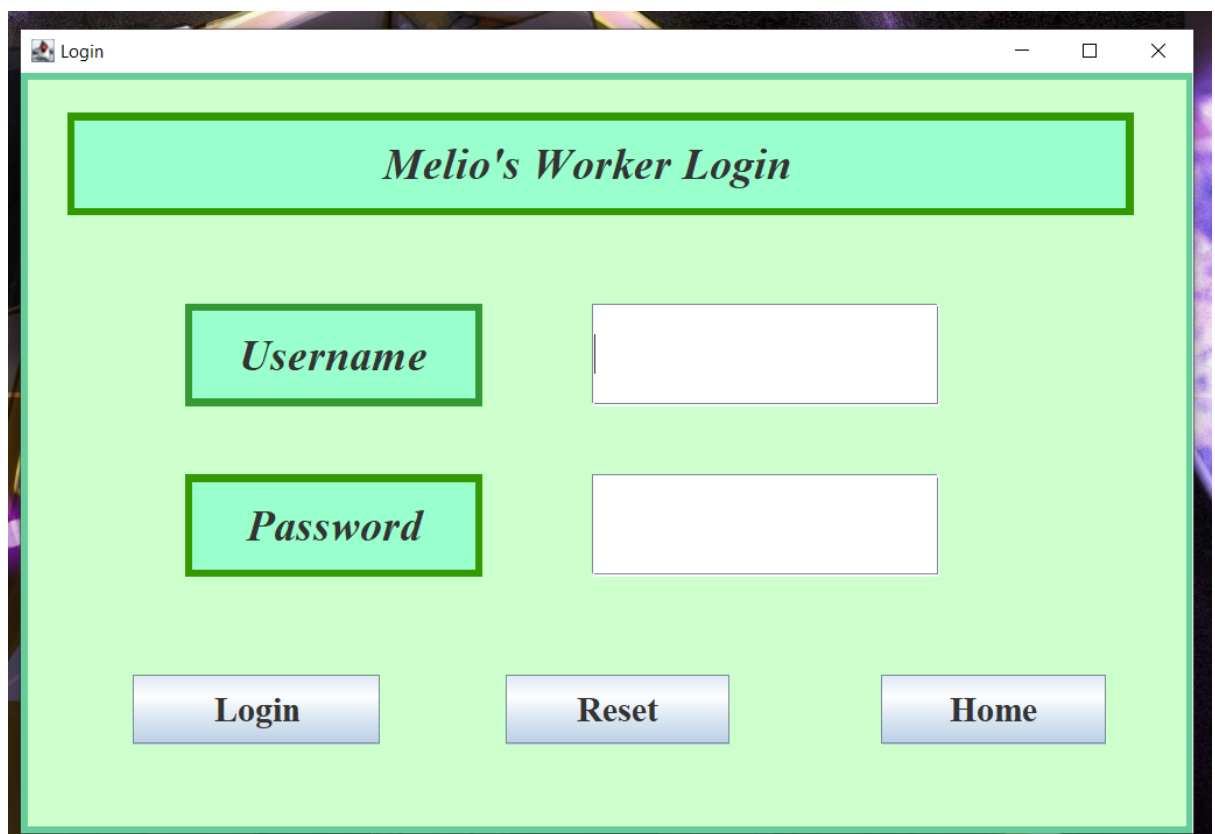
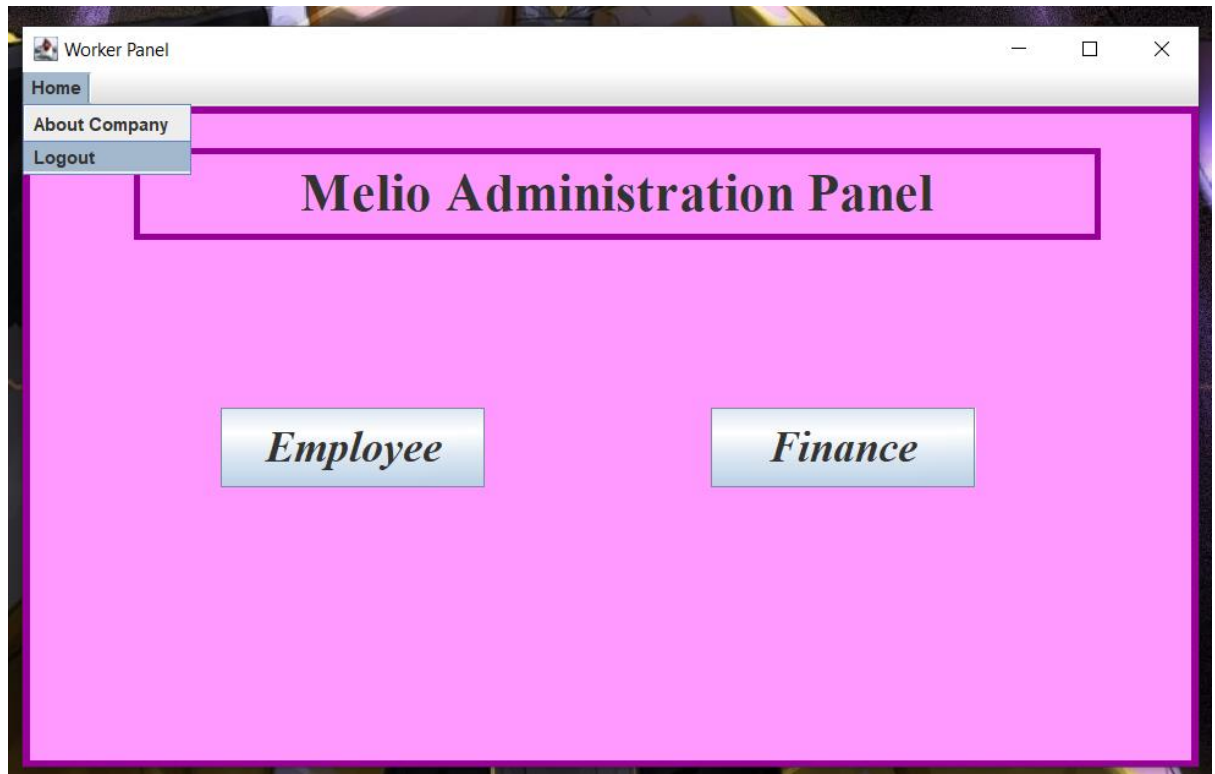
**Summary:**

NetIncome: 805.0

Cal Net

UPLOAD

Step 11; If user finish with their work, they can click button home and choose logout to back to login page. So it will bring you to login page.



Step 12; User just need to click Home button to go main page.



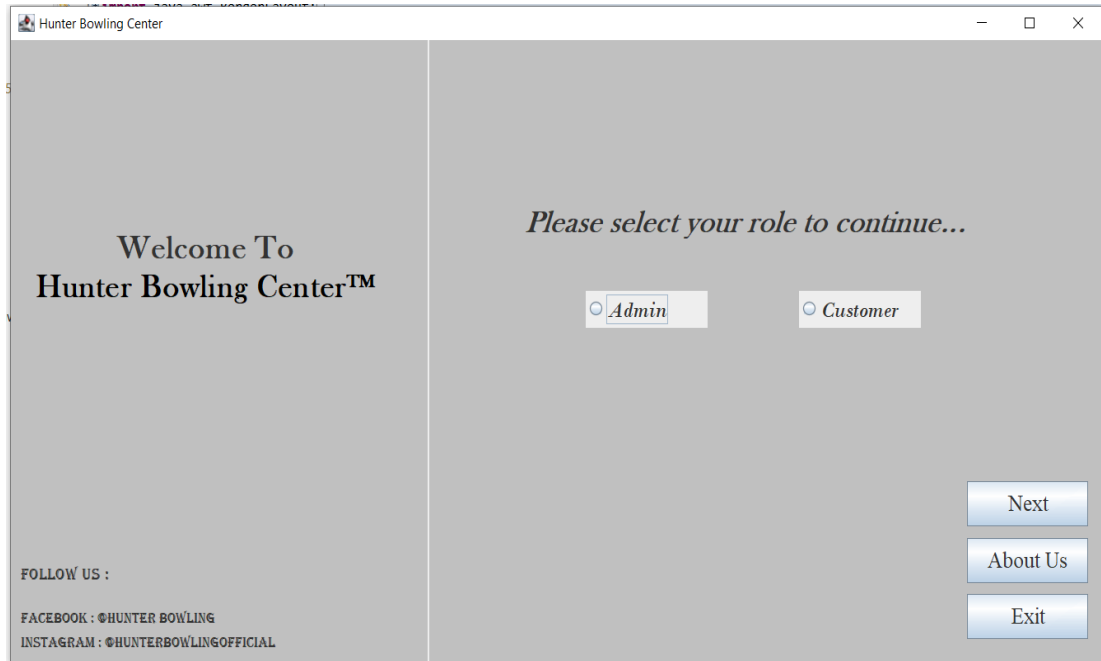
Step 13: If user want to exit from this program just click Home at menu bar and just click exit to close this program.



#### 4. Gaming (Muhammad Syarif Bin Dollah 279271)

### GUI PROGRAM EXECUTION

#### 1. Login page




## 2. AdminMenu page



The Admin Menu window has a title bar with a small icon and the text "Admin Menu". The main content area has a grey background and contains the following elements:

- Welcome To Hunter Bowling Center** (Large bold text)
- Please Enter Admin Username and Password** (Medium bold text)
- Username** label next to a text input field.
- Password** label next to a text input field.
- Login** button (blue with white text).
- Cancel** button (blue with white text).

## 3. Employee page



The Employee Management window has a title bar with a small icon and standard window controls. It features a sidebar on the left with navigation buttons: *Home*, *Financial*, *Employee* (highlighted), and *Advertisement*. The main content area has a grey background and contains:

- Employee Management** (Large bold text)
- Employee Registration** (Section header)
- Registration form with fields: Employee ID (Enter ID), Name (Enter Name), Age (Enter Age), Tel (Enter Tel), Gender (Select Gender), Position (Select Position), and Salary (Salary).
- UPLOAD** button (blue with white text).
- Bottom navigation bar with buttons: **ADD**, **RESET**, **DELETE**, **PRINT**, and **EXIT**.
- Table with columns: Employee ID, Name, Age, Tel, Gender, Position, Salary.

4. Finance

Financial System

Home

Financial

Employee

Advertisement

Finance

Month 

Select Month

All Fee

Event

Member

Total Income

Total Expense

Month

All Fee

Event

Member

Total Income

Total Expense

ADD

RESET

UPLOAD

DELETE

PRINT

EXIT

5. Advertisement

Advertisement

Home

Financial

Employee

Advertisement

Advertisment and Marketing

Title Ads

Enter Title Ads

Date Start

Enter Date Start

Date End

Enter Date End

ADD

RESET

Title Ads

Date Start

Date End

UPLOAD

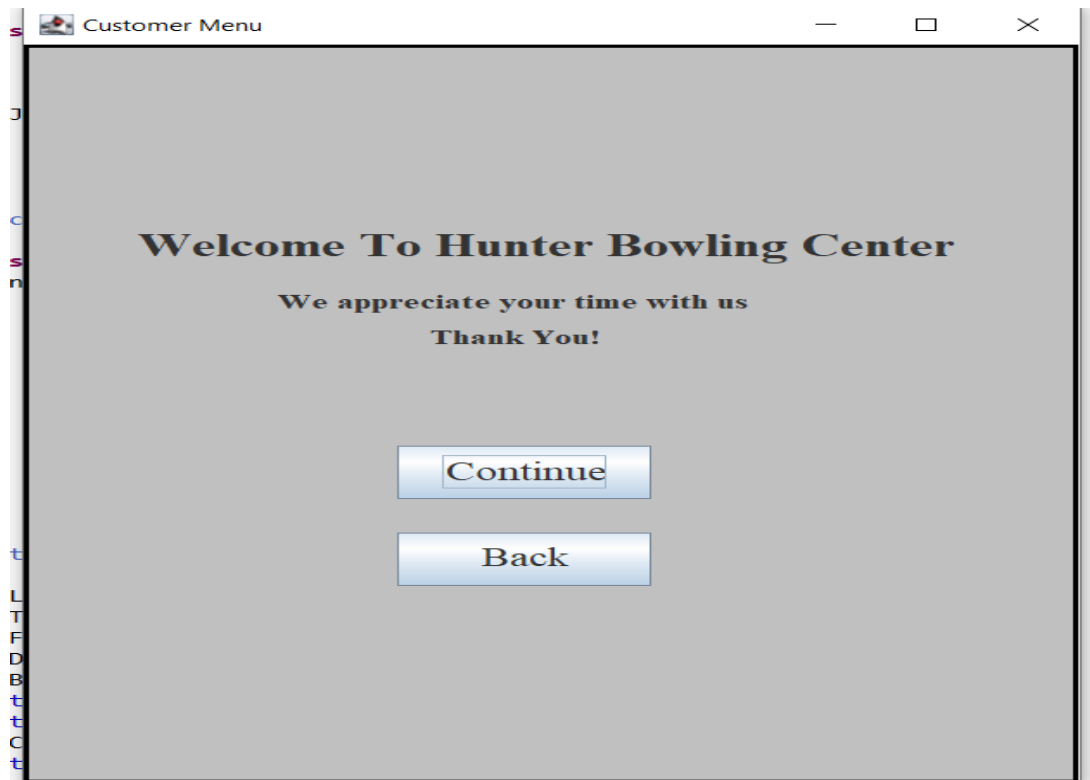
DELETE

PRINT

EXIT



## 6. CustomerMenu page



## 7. Event Registration page

The screenshot shows a window titled "Event Registration". The page has a light blue header and a white body. On the left, there is a vertical navigation menu with three items: "Home", "Event Registration", and "Member Registration". The main content area is titled "Event Registration" and contains a form for entering event information.

**Event Info**

Reference No.

Name

Age

Tel.

Gender

Event Type

Below the form are five buttons: "ADD", "RESET", "UPLOAD", "DELETE", and "PRINT". At the bottom right is a red button labeled "EXIT".

Reference No	Name	Age	Tel	Gender	Event Type
--------------	------	-----	-----	--------	------------

## 8. Member Registration page

**Member Registration System**

**Member Registration**

**Member Info**

Reference No.

Name

Age

Tel.

Gender

Member Type

Reference No.	Name	Age	Tel.	Gender	Member Type
---------------	------	-----	------	--------	-------------

**ADD** **RESET** **UPLOAD** **DELETE** **PRINT** **EXIT**

## 9. About us page

**About Us**

**WHO WE ARE**

We are Hunter Bowling Center™, and we have been in business area for 3 years. Our sport center is more committed than ever to providing you with the best bowling experience possible. we hope you enjoy everything our facility has to offer and look forward to helping you have great time in the future!

**More Information About Us**

**HUNTER BOWLING CENTER™**

2, Jalan Dedap 3, Taman Johor Jaya 81100  
Johor Bahru Johore

ContactUs@HunterBowlingCenter.com  
017-7254144 or 012-7464744

**BUSINESS HOURS**

Sunday : 9.30 AM - 11.30 PM  
Monday : 9.30 AM - 11.30 PM  
Tuesday : 9.30 AM - 11.30 PM  
Wednesday : 9.30 AM - 11.30 PM  
Thursday : 9.30 AM - 11.30 PM  
Friday : Close  
Saturday : 9.30 AM - 11.30 PM

**Back**

## Screenshots of the application's running

### 1. Futsal Centre (Muhamad Hazman Bin Haris 278632)

#### CONSTRUCTOR

```
49 public Login() { //constructor
50     setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
51     setBounds(100, 100, 1065, 642);
52     contentPane = new JPanel();
53     contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
54     setContentPane(contentPane);
55     contentPane.setLayout(null);
56
64 public Employee() {
65     setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
66     setBounds(100, 100, 1000, 636);
67     contentPane = new JPanel();
68     contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
69     setContentPane(contentPane);
70     contentPane.setLayout(null);
71 }
```

#### ENCAPSULATION

```
--
36 public class PlayerRegistration extends JFrame {
37
38     private JPanel contentPane;
39     private JFrame frame;
40     private JTextField txtTeamName;
41     private JTextField txtName;
42     private JTextField txtPhone;
43     private JTable table;
44     private JTextField txtAge;
45 }
```

#### Getter

```
170
171 JButton addButton = new JButton("ADD RECORD");
172 addButton.addActionListener(new ActionListener() {
173     public void actionPerformed(ActionEvent e) {
174         DefaultTableModel model = (DefaultTableModel) table.getModel();
175
176         model.addRow(new Object[]{
177             txtTeamName.getText(),
178             txtName.getText(),
179             txtAge.getText(),
180             txtPhone.getText(),
181             Categorycombobox.getSelectedItem(),
182
183         });
184
185     }
```

## Setter

```
201
202 JButton resetButton = new JButton("RESET");
203 resetButton.addActionListener(new ActionListener() {
204     public void actionPerformed(ActionEvent e) {
205         txtTeamName.setText("");
206         txtName.setText("");
207         txtAge.setText("");
208         txtPhone.setText("");
209         Categorycombobox.setSelectedItem("Make a selection");
210
211
212
213     }
214 });
```

## FILE I/O

```
290 JButton btnUpload = new JButton("UPLOAD");
291 btnUpload.addActionListener(new ActionListener() {
292     public void actionPerformed(ActionEvent e) {
293
294         try {
295             File file = new File("C:\\Users\\user\\Desktop\\Semester 2\\Programming 2\\Assignment 3 Text File\\Employee.txt");
296             if(!file.exists()) {
297                 file.createNewFile();
298             }
299             FileWriter fw = new FileWriter(file.getAbsolutePath());
300             BufferedWriter bw = new BufferedWriter(fw);
301
302             for (int i=0; i<table.getRowCount(); i++) {
303                 for (int j=0; j<table.getColumnCount(); j++) {
304                     bw.write(table.getModel().getValueAt(i, j) + " ");
305                 }
306                 bw.write("\n");
307             }
308             bw.close();
309             fw.close();
310             JOptionPane.showMessageDialog(null, "Data Exported");
311         }
312         catch(Exception ex) {
313             ex.printStackTrace();
314         }
315     }
316 });
317 btnUpload.setForeground(Color.WHITE);
318 btnUpload.setFont(new Font("Tahoma", Font.BOLD, 20));
319 btnUpload.setBorder(new LineBorder(new Color(0, 0, 0), 4));
320 btnUpload.setBackground(new Color(128, 0, 128));
321 btnUpload.setBounds(197, 215, 136, 68);
322 panel_2.add(btnUpload);
323 }
324 }
325
```

## EXCEPTION HANDLING

```
236 JButton btnPrint = new JButton("PRINT");
237 btnPrint.setForeground(Color.WHITE);
238 btnPrint.setBackground(new Color(128, 0, 128));
239 btnPrint.addActionListener(new ActionListener() {
240     public void actionPerformed(ActionEvent arg0) {
241         try {
242             table.print();
243         } catch (java.awt.print.PrinterException e) {
244             System.err.format("No printer found", e.getMessage());
245         }
246     }
247 });
248 btnPrint.setFont(new Font("Tahoma", Font.BOLD, 20));
249 btnPrint.setBounds(583, 26, 136, 68);
250 btnPrint.setBorder(new LineBorder(new Color(0, 0, 0), 4));
251 panel_1_2.add(btnPrint);
```

## POLYMORPHISM

```
269 @Override
270 public void actionPerformed(ActionEvent e) {
271     try {
272         File file = new File("C:\\Users\\user\\Desktop\\Semester 2\\Programming 2\\Assignment 3 Text File\\Player Registration.txt");
273         if(!file.exists()) {
274             file.createNewFile();
275         }
276         FileWriter fw = new FileWriter(file.getAbsolutePath());
277         BufferedWriter bw = new BufferedWriter(fw);
278
279         for (int i=0; i<table.getRowCount(); i++) {
280             for (int j=0; j<table.getColumnCount(); j++) {
281                 bw.write(table.getModel().getValueAt(i, j) + " ");
282             }
283             bw.write("\n");
284         }
285         bw.close();
286         fw.close();
287         JOptionPane.showMessageDialog(null, "Data Exported");
288     }
289     catch(Exception ex) {
290         ex.printStackTrace();
291     }
292 }
293 };
```

## 2. Car Racing (Pee Foo Ye 278632)

### 1. Constructor

```
public Login() {  
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
    setBounds(100, 100, 699, 529);  
    contentPane = new JPanel();  
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));  
    setContentPane(contentPane);  
    contentPane.setLayout(null);  
}
```

### 2. Encapsulation

```
private JPanel contentPane;  
private JTextField textField_Name;  
private JTextField textField_MobileNo;  
private JTable table;  
private JTextField textField_ICNo;  
private JTextField textField_Username;  
private JTextField textField_Password;
```

### 3. Inheritance

```
public class EmployeeManagement extends JFrame{
```

#### Setter

```
public void actionPerformed(ActionEvent e) {  
    DefaultTableModel model = (DefaultTableModel) table.getModel();  
    model.addRow(new Object[]{  
        textField_Name.getText(),  
        textField_ContractNo.getText(),  
        textField_ICNo.getText(),  
        textField_Position.getText(),  
        textField_Salary.getText(),  
    });  
}
```

#### Getter

```
public void actionPerformed(ActionEvent e) {  
    textField_Name.setText("");  
    textField_ContractNo.setText("");  
    textField_ICNo.setText("");  
    textField_Position.setText("");  
    textField_Salary.setText("");  
}
```

## 4. Polymorphism (Overriding)

### EmployeeRegistrationSystem

```

JButton btnUpload = new JButton("UPLOAD");
btnUpload.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        try {
            File f = new File("C:\\Users\\raymo\\OneDrive\\Desktop\\Sem 2\\Programming 2\\Project\\Employee.txt");
            if(!f.exists()) {
                f.createNewFile();
            }
            FileWriter fw = new FileWriter(f.getAbsolutePath());
            BufferedWriter bw = new BufferedWriter(fw);

            for (int i=0; i<table.getRowCount(); i++) {
                for (int j=0; j<table.getColumnCount(); j++) {
                    bw.write(table.getModel().getValueAt(i, j) + " ");
                }
                bw.write("\n_____\n");
            }
            bw.close();
            fw.close();
            JOptionPane.showMessageDialog(null, "Data Exported");
        }
        catch(Exception ex) {
            ex.printStackTrace();
        }
    }
});

```

### CustomerRegistrationSystem

```

JButton btnApply = new JButton("APPLY");
btnApply.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        try {
            File f = new File("C:\\Users\\raymo\\OneDrive\\Desktop\\Sem 2\\Programming 2\\Project\\Customer.txt");
            if(!f.exists()) {
                f.createNewFile();
            }
            FileWriter fw = new FileWriter(f.getAbsolutePath());
            BufferedWriter bw = new BufferedWriter(fw);

            for (int i=0; i<table.getRowCount(); i++) {
                for (int j=0; j<table.getColumnCount(); j++) {
                    bw.write(table.getModel().getValueAt(i, j) + " ");
                }
                bw.write("\n_____\\n");
            }
            bw.close();
            fw.close();
            JOptionPane.showMessageDialog(null, "Data Exported");
        }
        catch(Exception ex) {
            ex.printStackTrace();
        }
    }
});

```

## 5. File I/O

### AdvertisementAndMarketing



```

JButton btnDone = new JButton("DONE");
btnDone.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        if (table.getRowCount() != 0) {
            JOptionPane.showMessageDialog(null, "Advertisement and Marketing has been set!");
            try {
                File f = new File("C:\\Users\\raymo\\OneDrive\\Desktop\\Sem 2\\Programming 2\\Project\\Advertisement.txt");
                if(!f.exists()) {
                    f.createNewFile();
                }
                FileWriter fw = new FileWriter(f.getAbsolutePath());
                BufferedWriter bw = new BufferedWriter(fw);

                for (int i=0; i<table.getRowCount(); i++) {
                    for (int j=0; j<table.getColumnCount(); j++) {
                        bw.write(table.getModel().getValueAt(i, j) + " ");
                    }
                    bw.write("\n_____\\n");
                }
                bw.close();
                fw.close();
                JOptionPane.showMessageDialog(null, "Data Exported");
            }
            catch(Exception ex) {
                ex.printStackTrace();
            }
        }
        else if (table.getRowCount() == 0) {
            JOptionPane.showMessageDialog(null, "No data has been set!");
        }
    }
});

```

## EmployeeRegistrationSystem

```

JButton btnUpload = new JButton("UPLOAD");
btnUpload.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        try {
            File f = new File("C:\\Users\\raymo\\OneDrive\\Desktop\\Sem 2\\Programming 2\\Project\\Employee.txt");
            if(!f.exists()) {
                f.createNewFile();
            }
            FileWriter fw = new FileWriter(f.getAbsolutePath());
            BufferedWriter bw = new BufferedWriter(fw);

            for (int i=0; i<table.getRowCount(); i++) {
                for (int j=0; j<table.getColumnCount(); j++) {
                    bw.write(table.getModel().getValueAt(i, j) + " ");
                }
                bw.write("\n_____\\n");
            }
            bw.close();
            fw.close();
            JOptionPane.showMessageDialog(null, "Data Exported");
        }
        catch(Exception ex) {
            ex.printStackTrace();
        }
    }
});

```

## CustomerRegistrationSystem

```
JButton btnApply = new JButton("APPLY");
btnApply.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        try {
            File f = new File("C:\\Users\\raymo\\OneDrive\\Desktop\\Sem 2\\Programming 2\\Project\\Customer.txt");
            if(!f.exists()) {
                f.createNewFile();
            }
            FileWriter fw = new FileWriter(f.getAbsolutePath());
            BufferedWriter bw = new BufferedWriter(fw);

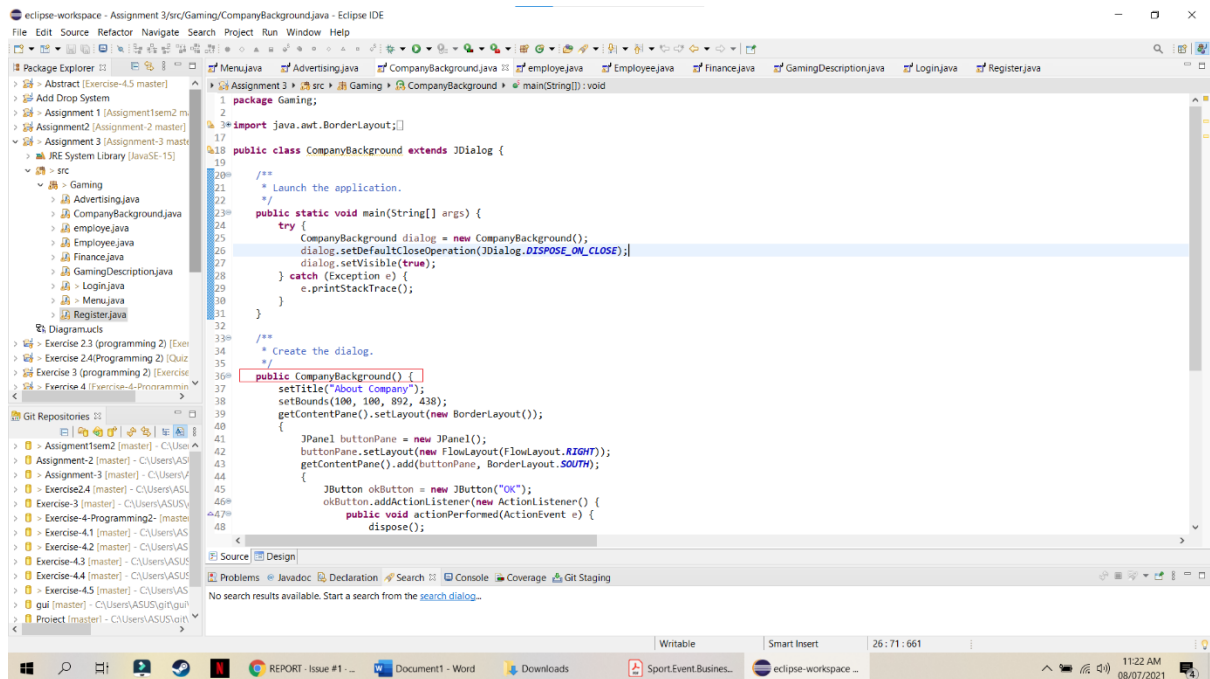
            for (int i=0; i<table.getRowCount(); i++) {
                for (int j=0; j<table.getColumnCount(); j++) {
                    bw.write(table.getModel().getValueAt(i, j) + " ");
                }
                bw.write("\n");
            }
            bw.close();
            fw.close();
            JOptionPane.showMessageDialog(null, "Data Exported");
        }
        catch(Exception ex) {
            ex.printStackTrace();
        }
    }
});
```

## 6. Exception Handling

```
btn_Print.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        try {
            table.print();
        } catch (java.awt.print.PrinterException ee) {
            System.err.format("No printer found", ee.getMessage());
        }
    }
});
```

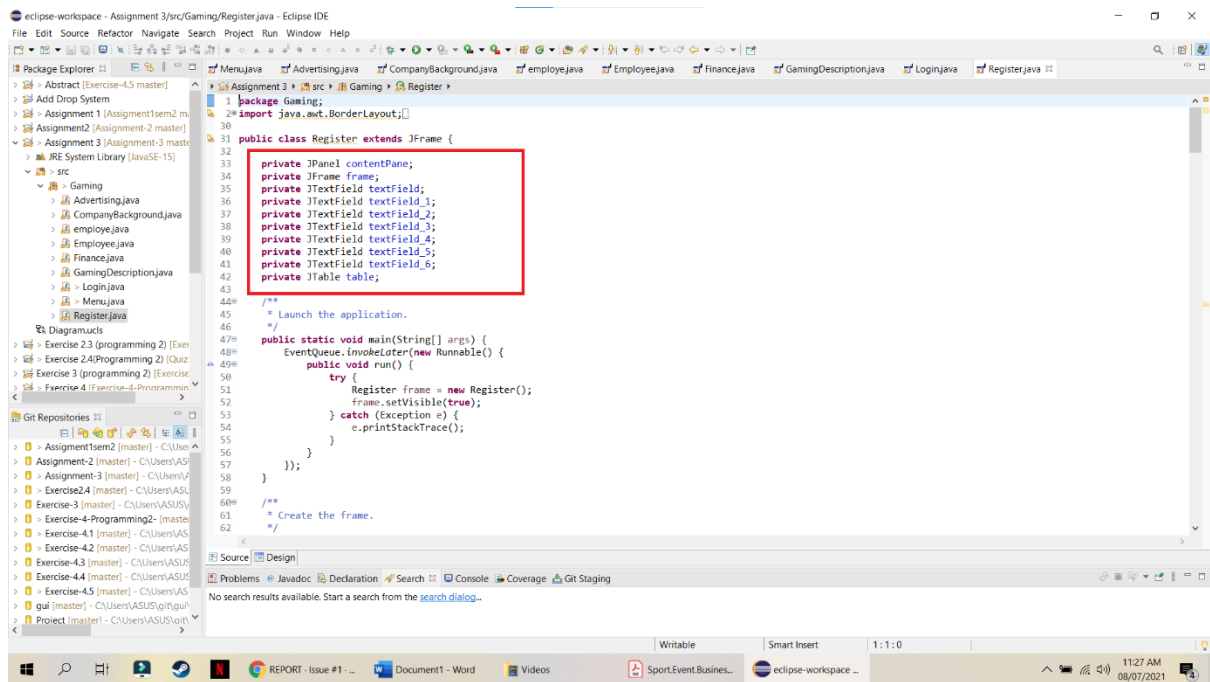
### 3. Gaming (Muhammad Hidayat Bin Ibrahim 279395)

#### Constructor



The constructor inside this screenshot is default constructor, that is, the constructor with no arguments. All the codes of the design will be in this constructor. The constructor is called when an object of a class is created. It can be used to set initial values in the constructor.

#### Encapsulation



In encapsulation, the variables of a class will be hidden from other classes, and can be accessed only through the methods of their current class. We usually declare the variables of a class as private. If they want to access the code, they need to provide public setter and getter methods to modify and view the variables values. From this example, all the variables of Register class are declared as private.

## Inheritance

```

1 package Gaming;
2
3 import java.awt.BorderLayout;
4
22
23 public class Login extends JFrame {
24     private JPanel contentPane;
25     private JFrame frame;
26     private JTextField UsernameText;
27     private JTextField PasswordText;
28
29     /**
30      * Launch the application.
31      */

```

Inheritance is a mechanism wherein a new class is derived from an existing class. classes may inherit or acquire the properties and methods of other classes. A class derived from another

class is called a subclass, whereas the class from which a subclass is derived is called a superclass. As the picture show, the Login class extends JFrame. It means Login class inherits JFrame.

## Polymorphism (overloading and overriding)

### a. Overloading

```

JButton btnHome = new JButton("Home");
btnHome.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        frame = new JFrame();
        if (JOptionPane.showConfirmDialog(frame, "Confirm if you want to back", "Login System",
            JOptionPane.YES_NO_OPTION) == JOptionPane.YES_NO_OPTION) {
            Menu frame = new Menu();
            frame.setModalExclusionType(null);
            frame.setVisible(true);
            dispose();
        }
    }
});
```

Method, addActionListener() is used many time in this project. Subclass employee overrides a method inherit from a superclass Abstract Button. The overriding method has the same name, number and type of parameters, and return type as the overriding method

### b. Overriding

```

JButton btnUpload = new JButton("UPLOAD");
btnUpload.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        try {
            File file = new File("C:\\\\Users\\\\\\ASUS\\\\\\eclipse-workspace\\\\\\Employee");
            if(!file.exists()) {
                file.createNewFile();
            }
            FileWriter fw = new FileWriter(file.getAbsolutePath());
            BufferedWriter bw = new BufferedWriter(fw);

            for (int i=0; i<table.getRowCount(); i++) {
                for (int j=0; j<table.getColumnCount(); j++) {
                    bw.write(table.getModel().getValueAt(i, j) + " ");
                }
                bw.write("\\n____\\n");
            }
            bw.close();
            fw.close();
            JOptionPane.showMessageDialog(null, "Data Exported");
        }
        catch(Exception ex) {
            ex.printStackTrace();
        }
    }
});
```

Overriding is a feature that allows a subclass or child class to provide a specific implementation of a method that is already provided by one of its super-classes or parent classes. When a method in a subclass has the same name, same parameters or signature, and same return type as a method in its super class, then the method in the subclass is said to

override the method in the super class. For example, in this project, the mouseClicked method is an overriding because it also appears in other JFrame.

## FILE I/O

```

JButton btnUpload = new JButton("UPLOAD");
btnUpload.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        try {
            File file = new File("C:\\\\Users\\\\ASUS\\\\eclipse-workspace\\\\Employee");
            if(!file.exists()) {
                file.createNewFile();
            }
            FileWriter fw = new FileWriter(file.getAbsolutePath());
            BufferedWriter bw = new BufferedWriter(fw);

            for (int i=0; i<table.getRowCount(); i++) {
                for (int j=0; j<table.getColumnCount(); j++) {
                    bw.write(table.getModel().getValueAt(i, j) + " ");
                }
                bw.write("\n");
            }
            bw.close();
            fw.close();
            JOptionPane.showMessageDialog(null, "Data Exported");
        }
        catch(Exception ex) {
            ex.printStackTrace();
        }
    }
});
```

There is a file input/output here which is the participant .txt file. When the user clicks the upload button it will save all the information on the table to this employee .txt file

## Exception Handling

```

        catch(Exception ex) {
            ex.printStackTrace();
        }
    }
});
```

The exception handling is exception ex. The exception handling is through try and catch. If there is error within the try code it will throw an exception.

#### 4. Gaming (Muhammad Syarif Bin Dollah 279271)

##### 1. Constructor Without Argument

```
56  /**
57   * Create the frame.
58   */
59  public Employee() {
60      setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
61      setBounds(100, 100, 1239, 673);
62      contentPane = new JPanel();
63      contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
64      setContentPane(contentPane);
65      contentPane.setLayout(null);
66
67      JPanel panel = new JPanel();
68      panel.setBackground(Color.MAGENTA);
69      panel.setBorder(new MatteBorder(3, 3, 3, 3, (Color) Color.PINK));
70      panel.setBounds(0, 0, 1225, 636);
71      contentPane.add(panel);
72      panel.setLayout(null);
73  }
```

##### 2. Inheritance

```
23  public class Finance extends JFrame {
24
25  }
```

##### 3. File I/O

```

File file = new File("C:\\Users\\User\\OUTPUT\\WORKERS.txt");
    if(!file.exists()) {
        file.createNewFile();
    }
FileWriter fw = new FileWriter(file.getAbsolutePath());
BufferedWriter bw = new BufferedWriter(fw);

for (int i=0; i<table.getRowCount(); i++) {
    for (int j=0; j<table.getColumnCount(); j++) {
        bw.write(table.getModel().getValueAt(i, j) + " ");
    }
}

```

#### 4. Exception Handling

```

try {
    table.print();
} catch (java.awt.print.PrinterException e1) {
    System.err.format("No printer found", e1.getMessage());
}

```