

CMM222

# CMM Gym Centre Database

# System



Supervisor: Dr. Azleena Mohd Kassim

# Group 6

**Liau Ling Yee**

Group Leader

152899

Trainer Module

**E Shi Min**

Member

151224

Member Module

**Pun Yi Jie**

Member

151625

Schedule Module

**Ang Sun Yee**

Member

151357

Payment Module

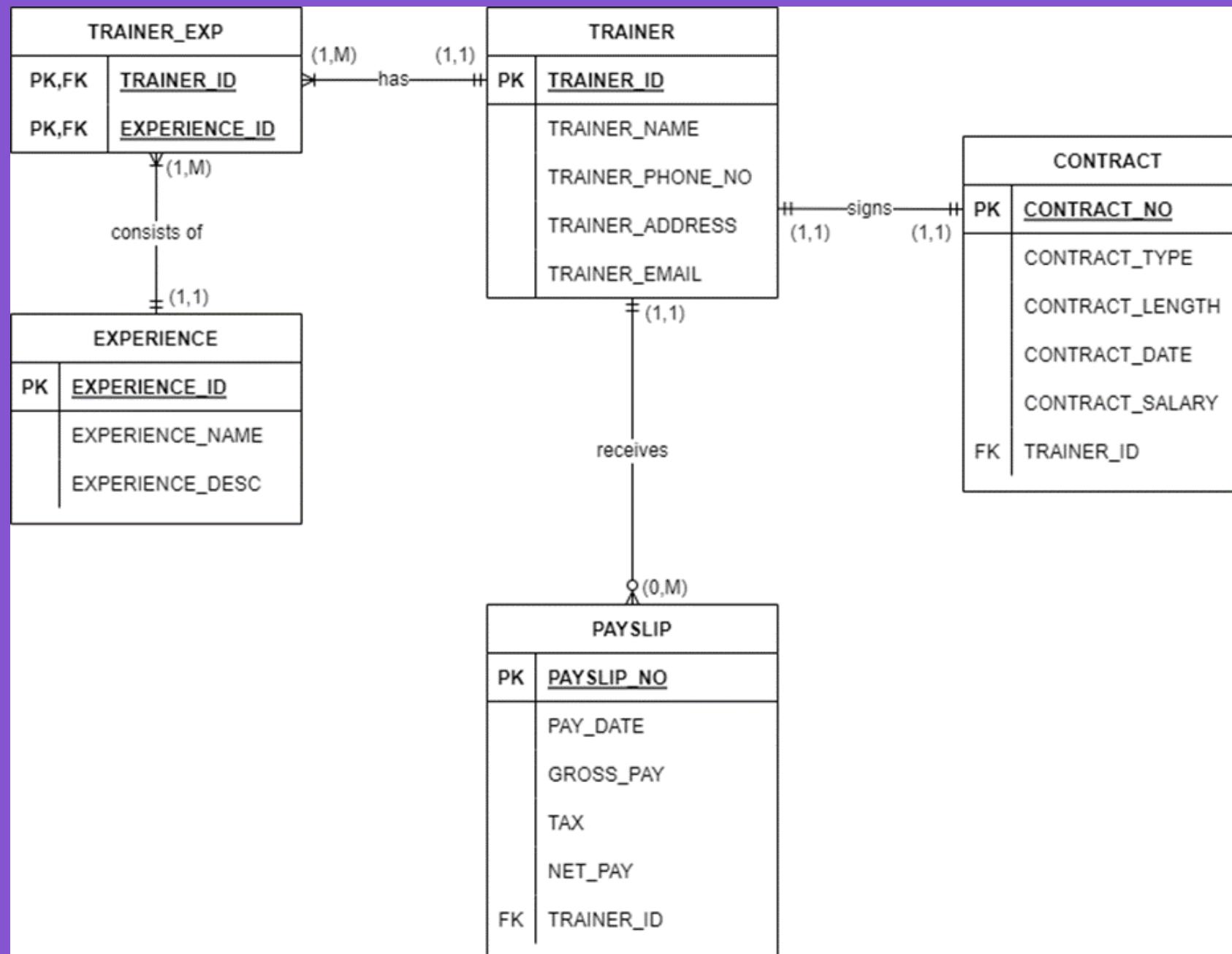
# Introduction

- CMM Gym Centre Database system helps the gym centre to manage the records of members and trainers.
- This system contains trainer module, member module, schedule module and payment module.



# System Design

## Trainer Module



## Relationships

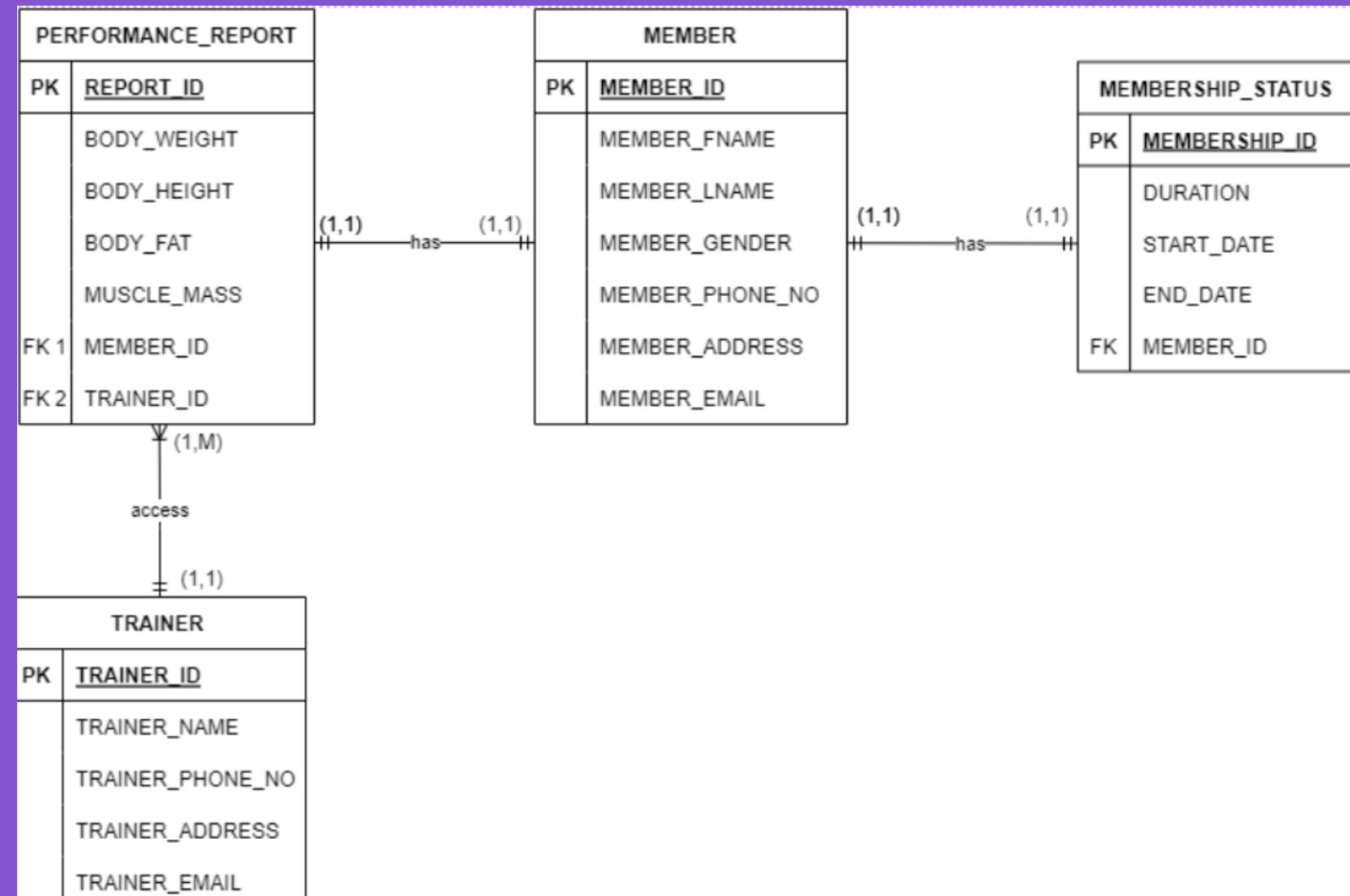
- **TRAINER & EXPERIENCE** - many-to-many
- **TRAINER\_EXP** - bridge entity
- **TRAINER & PAYSLIP** - one to zero or many
- **TRAINER & CONTRACT** - one-to-one

## Key Constraints

- **TRAINER PK** - **TRAINER\_ID**
- **CONTRACT PK** - **CONTRACT\_NO**
- **CONTRACT FK** - **TRAINER\_ID**
- **PAYSLIP PK** - **PAYSLIP\_NO**
- **PAYSLIP FK** - **TRAINER\_ID**
- **TRAINER\_EXP PK & FK** - **TRAINER\_ID** & **EXPERIENCE\_ID**
- **EXPERIENCE PK** - **EXPERIENCE\_ID**

# System Design

## Member Module



## Relationships

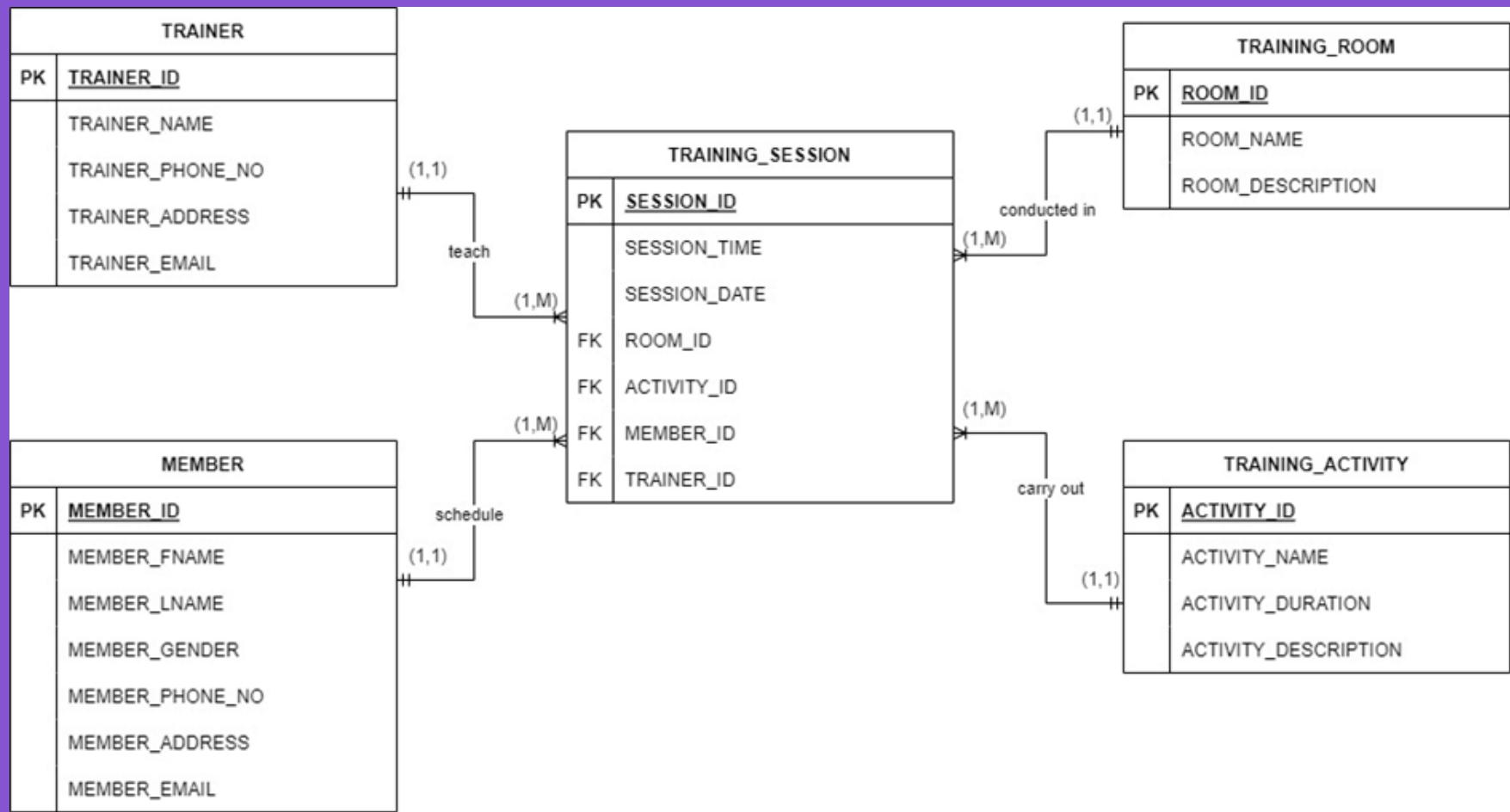
- MEMBER & MEMBERSHIP\_STATUS - one-to-one
- MEMBER & PERFORMANCE\_REPORT - one-to-one
- TRAINER & PERFORMANCE\_REPORT - one-to-many

## Key Constraints

- MEMBER PK - MEMBER\_ID
- MEMBERSHIP\_STATUS PK - MEMBERSHIP\_ID
- MEMBERSHIP\_STATUS FK - MEMBER\_ID
- PERFORMANCE\_REPORT PK - REPORT\_ID
- PERFORMANCE\_REPORT FK - MEMBER\_ID, TRAINER\_ID

# System Design

## Schedule Module



## Relationships

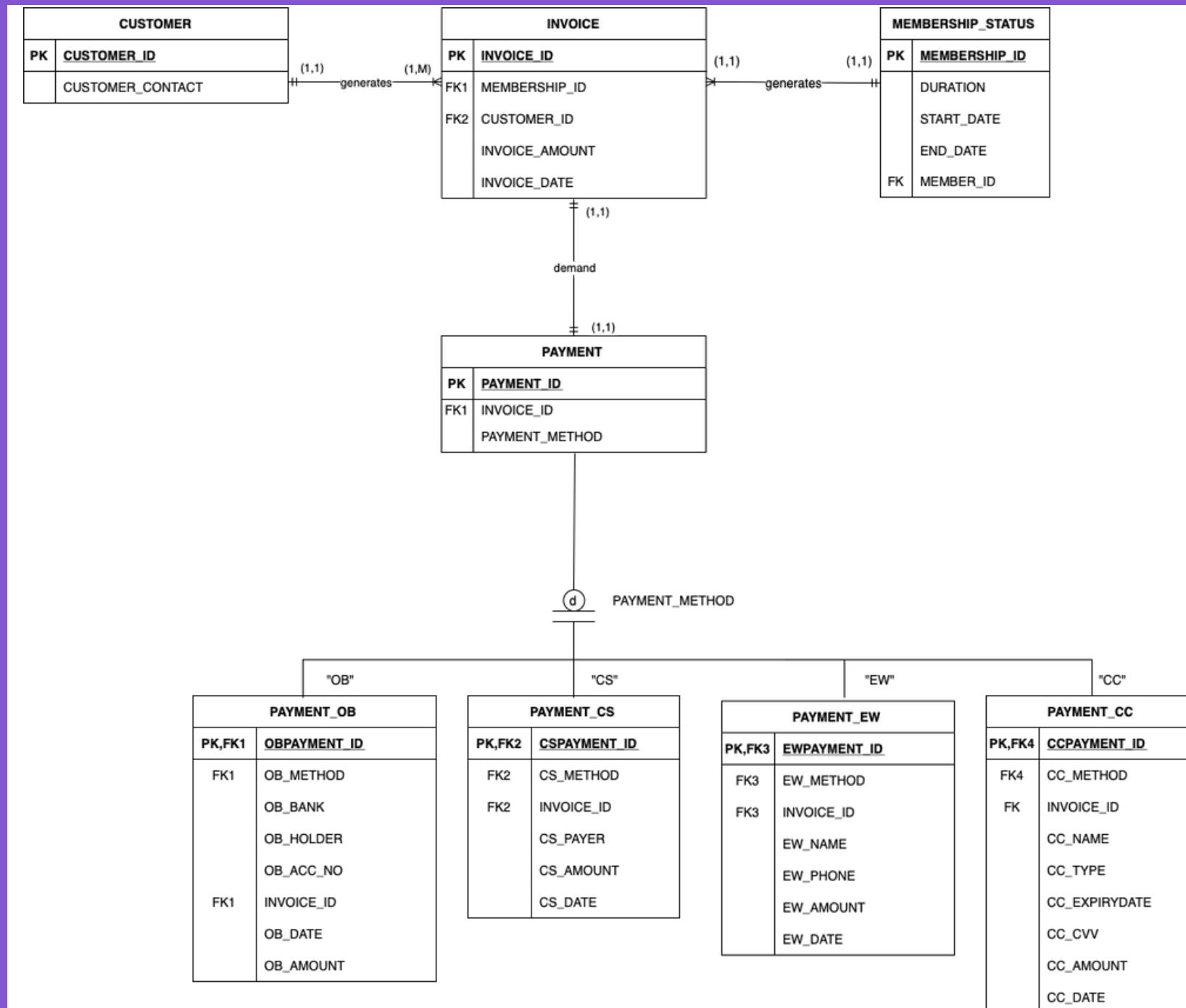
- **TRAINING\_ROOM & TRAINING\_SESSION**
  - one-to-many
- **TRAINING\_ACTIVITY & TRAINING\_SESSION**
  - one-to-many
- **TRAINER & TRAINING\_SESSION**
  - one-to-many
- **MEMBER & TRAINING\_SESSION**
  - one-to-many

## Key Constraints

- **TRAINING\_SESSION PK - SESSION\_ID**
- **TRAINING\_SESSION FK - ROOM\_ID, ACTIVITY\_ID, MEMBER\_ID & TRAINER\_ID**
- **TRAINING\_ROOM PK - ROOM\_ID**
- **TRAINING\_ACTIVITY PK - ACTIVITY\_ID**

# System Design

## Payment Module



## Relationships

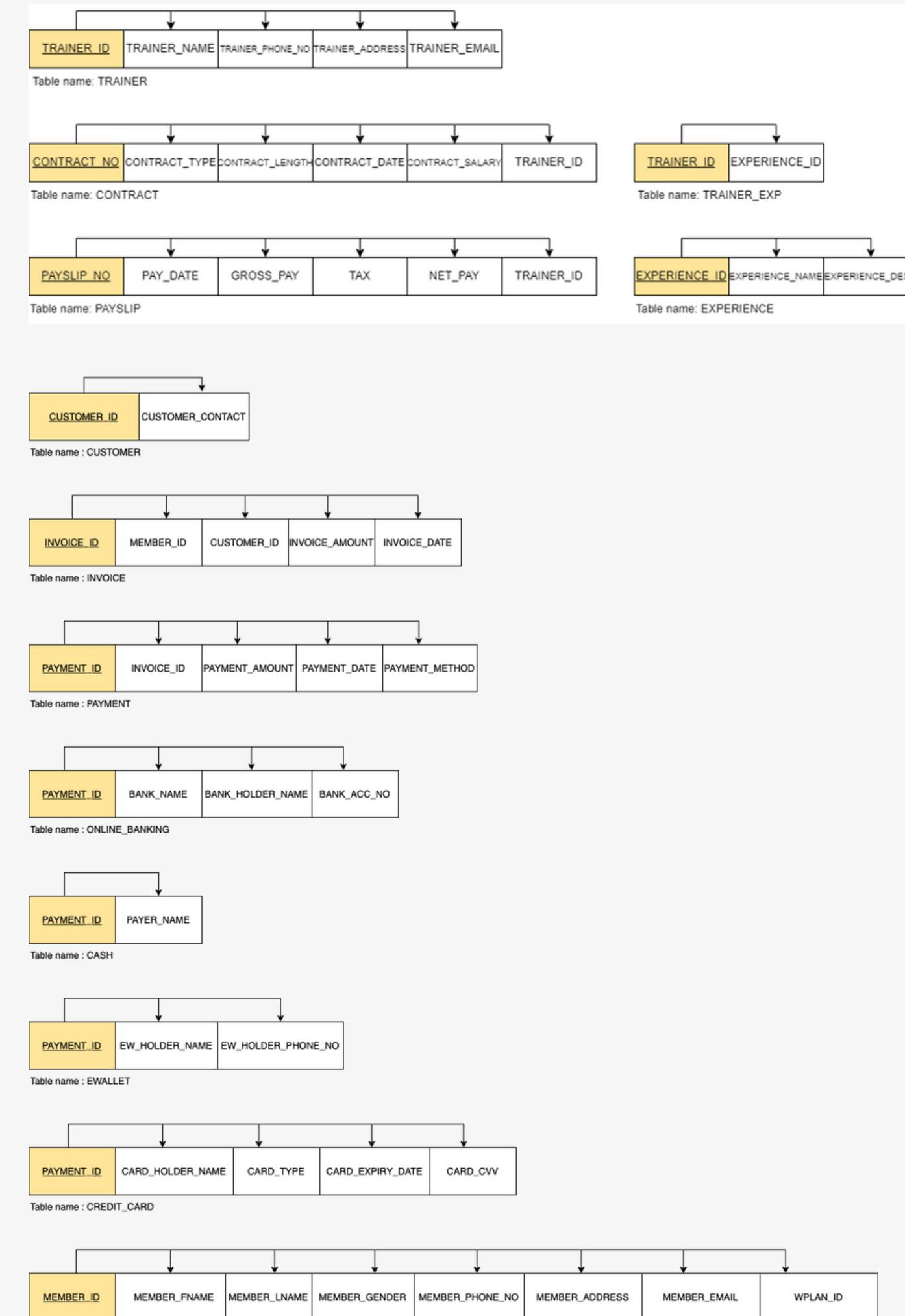
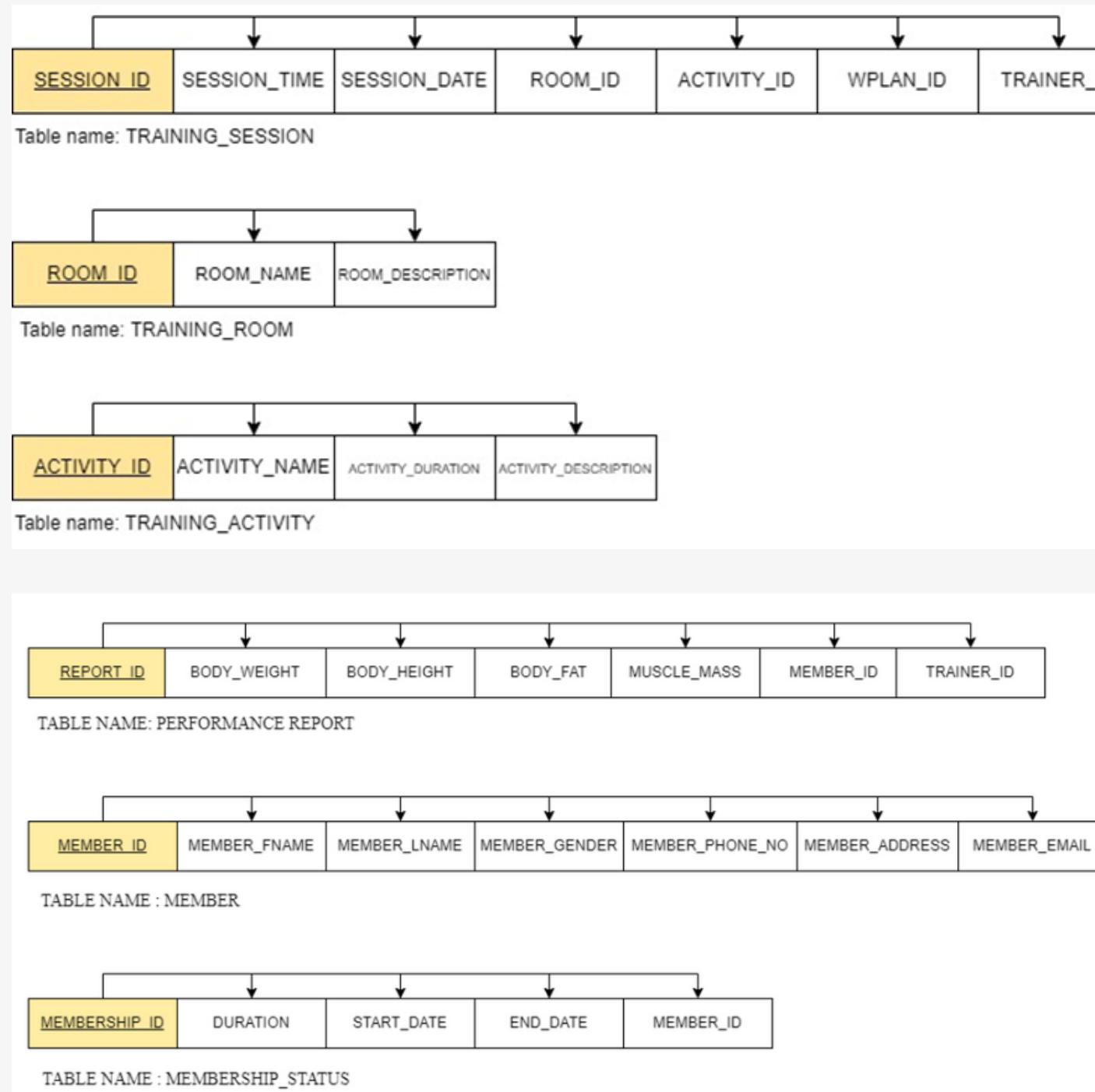
- **CUSTOMER & INVOICE** - one-to-many
- **MEMBERSHIP\_STATUS & INVOICE** - one-to-one
- **INVOICE & PAYMENT** - one-to-one

## Key Constraints

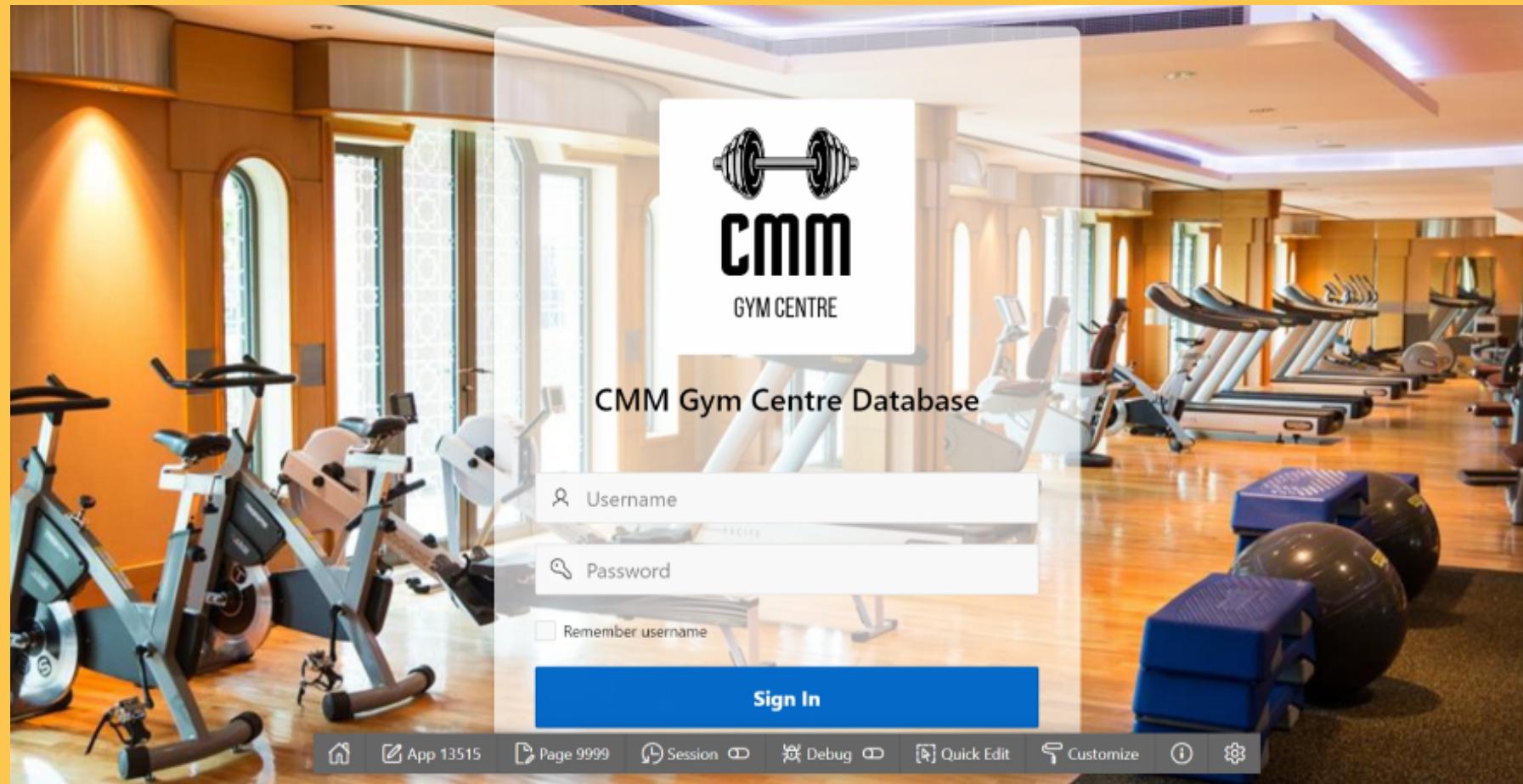
- **CUSTOMER PK** - CUSTOMER\_ID
- **INVOICE PK** - INVOICE\_ID
- **INVOICE FK** - CUSTOMER\_ID & MEMBERSHIP\_ID
- **PAYMENT PK** - PAYMENT\_NO
- **PAYMENT FK** - INVOICE\_ID
- **PAYMENT SUBTYPE PK** - OB/CS/EW/CCPAYMENT\_ID
- **PAYMENT SUBTYPE FK** - INVOICE\_ID & OB/CS/EW/CC\_METHOD

# Normalization

- 3rd normal form
- no partial dependencies
- no transitive dependencies



# SYSTEM IMPLEMENTATION



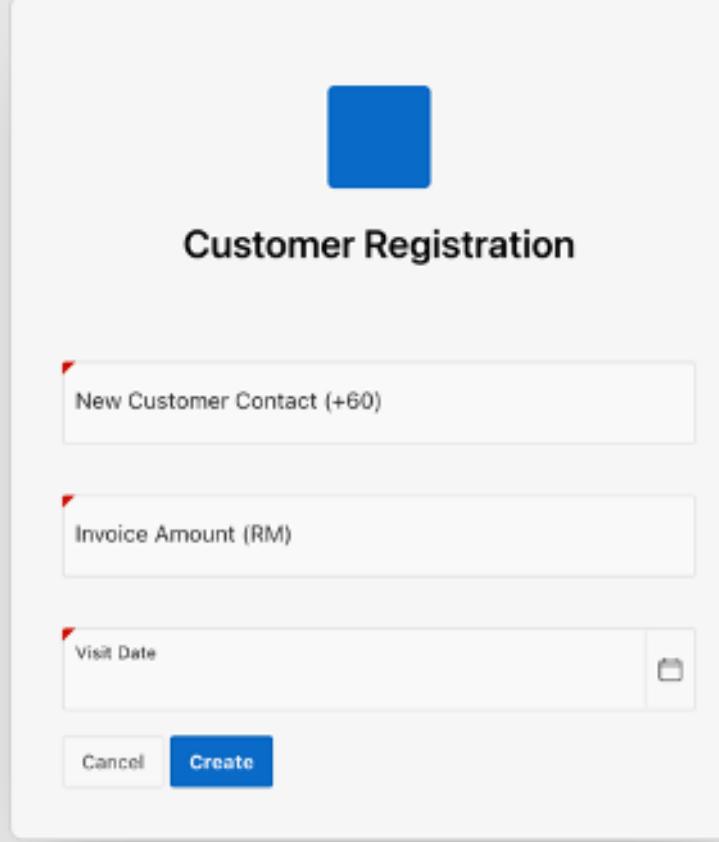
Login page

A screenshot of the main dashboard of the 'CMM Gym Centre Database'. The top navigation bar shows the title 'CMM Gym Centre Database' and a user account. The left sidebar contains links for 'Home', 'Customer Registration', 'Invoice Report', 'Members', 'Training Session', and 'Trainers'. The main content area features a welcome message and four cards under the 'MEMBERS' section: 'Member Listing' (blue), 'Membership Status' (teal), 'Performance Report' (light blue), and 'Member Details' (green). Each card has a corresponding icon and a link below it. The bottom navigation bar includes links for 'Home', 'App 13515', 'Page 1', 'Session', 'Debug', 'Quick Edit', 'Customize', and help icons.

Main Page and side panel

# SYSTEM IMPLEMENTATION

Customer Registration



The form contains fields for New Customer Contact (+60), Invoice Amount (RM), and Visit Date. It includes a 'Create' button and navigation links for Home, Customer Registration, Customer Contact List, Invoice Report, Members, Training Session, and Trainers.

New Customer Contact (+60)

Invoice Amount (RM)

Visit Date

Create

Home Customer Registration Customer Contact List Invoice Report Members Training Session Trainers

Customer Registration Form

CMM Gym Centre Database

Customer Contact List

Invoice Report

Customer ID	Customer Contact
100030	987623456
100035	194566385
100033	132993333
100031	165433897
100032	12341325
100034	168965345
100016	123456789
100017	134567892
100018	145678923
100019	156789234
100020	167892345
100021	178923456
100022	189234567
100023	192345678
100024	109876543

App 13515 Page 161 Session Debug Quick Edit Customize

Customer Interactive Report

# SYSTEM IMPLEMENTATION

CMM Gym Centre Database

Home Customer Registration Invoice Report Payment Method Summary Cash Record Online Banking Record E-Wallet Record Credit Card Record Members Training Session Trainers Invoice Report

## Invoice Report

Invoice ID	Membership	Customer	Invoice Amount	Invoice Date
100027		100030	100	7/21/2022
100050		100018	68	7/14/2022
100046		100035	12	7/12/2022
100049	20033		2160	7/29/2022
100052		100024	77	6/18/2022
100028		100031	70	7/19/2022
100029		100032	22	7/9/2022
100030		100033	11	7/7/2022
100042	20026		720	7/23/2022
100031		100034	34	7/9/2022
100045	20029		720	6/1/2022
100014		100016	15	5/25/2022
100015		100017	15	5/25/2022
100016		100018	15	5/25/2022
100047		100019	15	5/26/2022

App 13615 Page 162 Session Debug Quick Edit Customize

Invoice Interactive Report

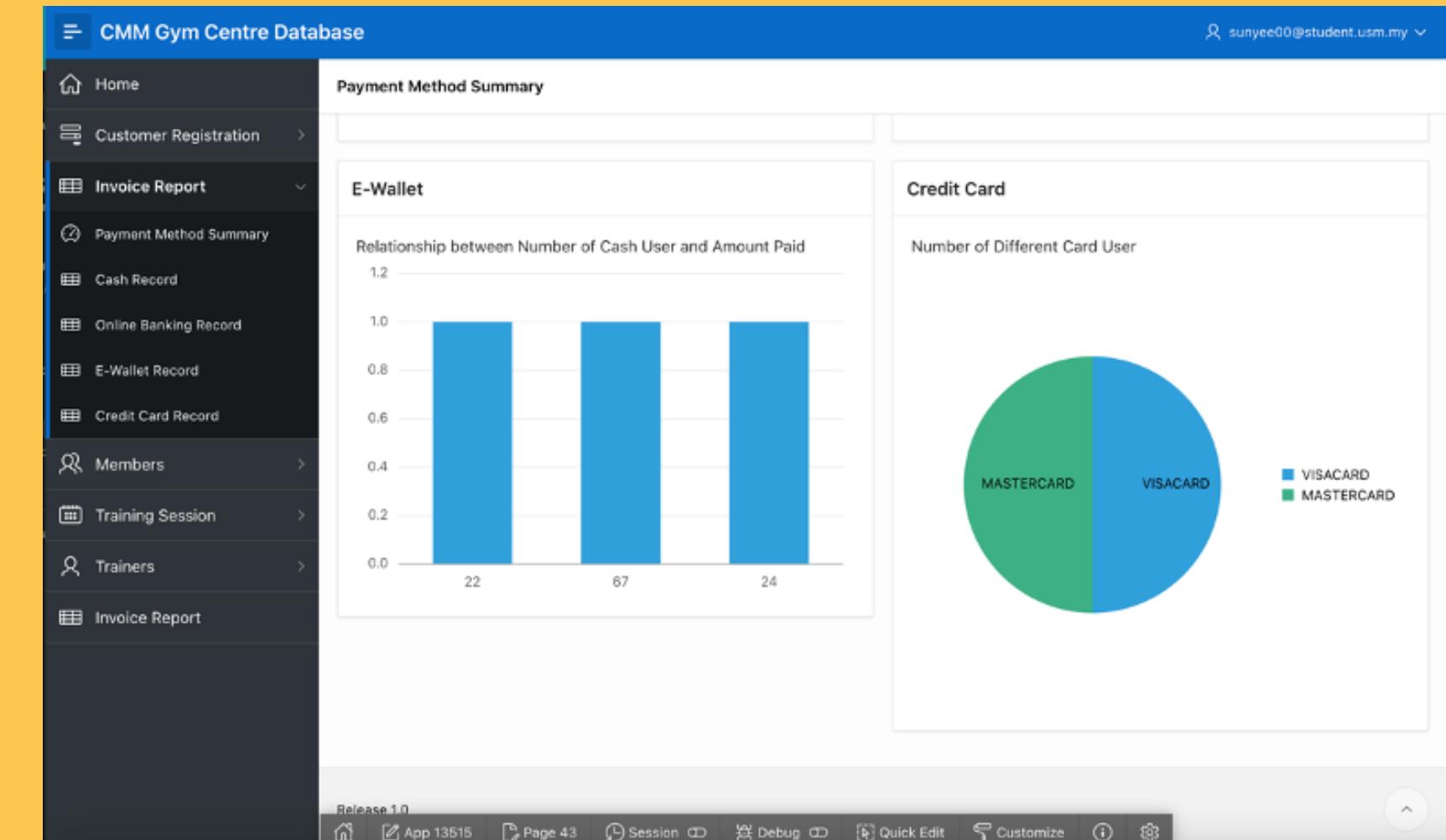
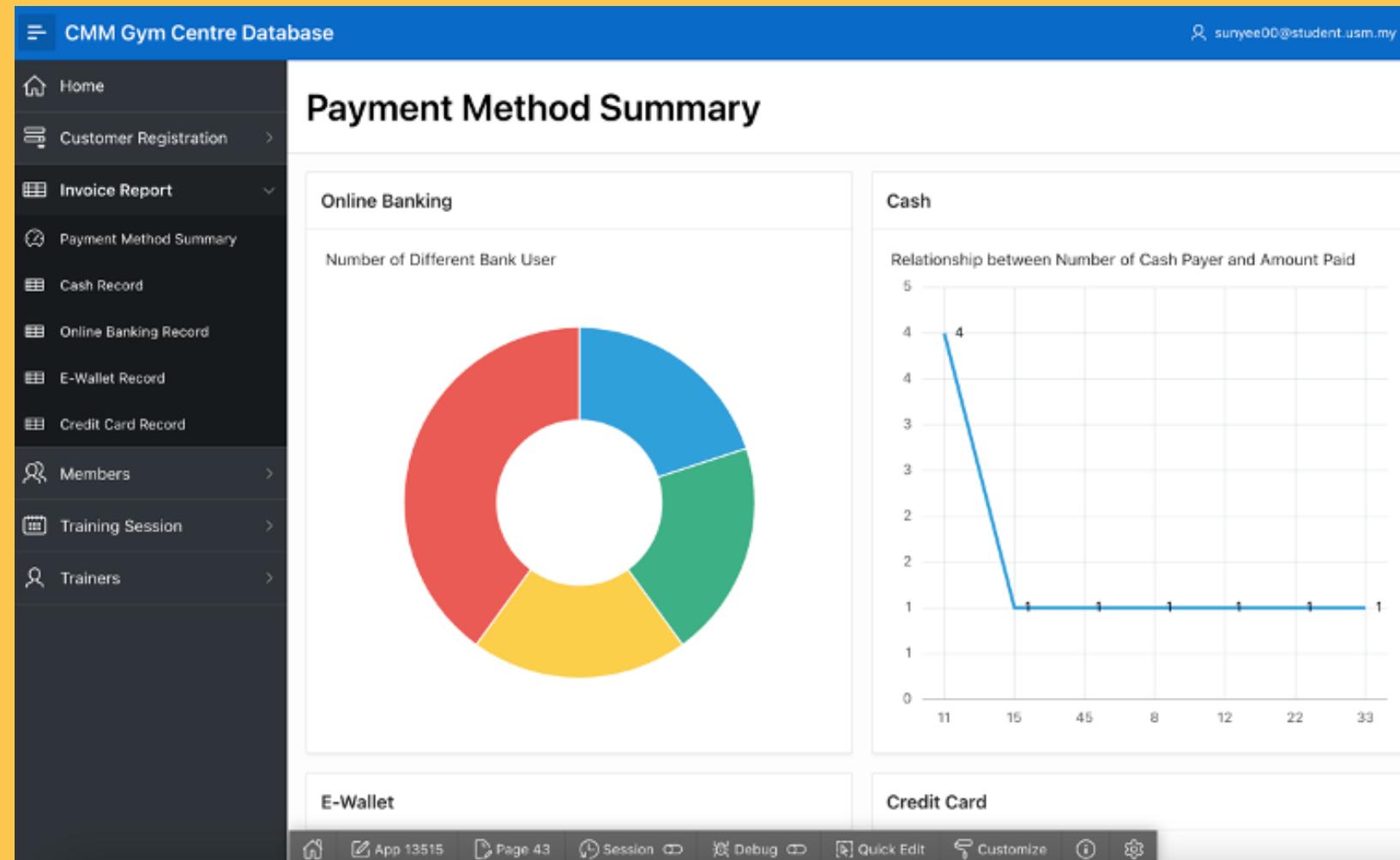
## Invoice Report

### Invoice Form

Amount	Invoice Date
100	7/21/2022
68	7/14/2022
12	7/12/2022
2160	7/29/2022
77	6/18/2022
70	7/19/2022
22	7/9/2022
11	7/7/2022
720	7/23/2022
34	7/9/2022
720	6/1/2022
100031	100034
100045	20029
100014	100016
100015	100017
100016	100018

Invoice Form

# SYSTEM IMPLEMENTATION



Payment Method Dashboard

# SYSTEM IMPLEMENTATION

The screenshots illustrate the implementation of a payment system across four different payment methods:

- Cash Record:** Shows 10 entries of cash payments. The first entry is for Maria on 2022/02/22.
- Online Banking Record:** Shows 5 entries of online banking payments. The first entry is for HDB on 2022/02/22.
- E-Wallet Record:** Shows 3 entries of e-wallet payments. The first entry is for Ooi on 2022/02/22.
- Credit Card Record:** Shows 2 entries of credit card payments. The first entry is for Chen on 2022/02/22.

Each screen includes a navigation menu on the left and a toolbar at the bottom with options like Refresh, Apply Filter, Page, Session, Debug, Quick Edit, and Customer.

Payment Interactive  
Report according to  
payment method

# SYSTEM IMPLEMENTATION

**Cash Record**

**E-Wallet Record**

**Online Banking Form**

**Credit Card Form**

The screenshot displays a user interface for managing payment records. It features four main forms: 'Cash Record', 'E-Wallet Record', 'Online Banking Form', and 'Credit Card Form'. Each form includes fields for 'Invoice ID', 'Date', and 'Amount', along with other specific fields for each method. Below these forms is a large grid titled 'Release 10' showing a list of transactions with columns for 'Date', 'Account Number', and 'Amount'. The interface includes a navigation bar at the bottom with various application icons.

Payment Form  
according to payment  
method

# SYSTEM IMPLEMENTATION

X CMM Gym Centre Database

shimin0604@student.usm.my

Home

Customer Registration >

Invoice Report >

Members >

- Membership Status
- New Member Form
- Performance Report
- Membership Duration (Chart)
- Member Details

Training Session >

Trainers >

## Members

### New Member

	Member Id	Member Fname	Member Lname	Member Gender	Member Phone No	Member Address	Member Email
<a href="#">Edit</a>	100024	Li Li	Chiew	F	015-6829421	23, Jln Pewira, Tmn Belangi, 11900 Gelugor Pulau Pinang	lilichiew@gmail.com
<a href="#">Edit</a>	100028	Celine	Loh	F	012-7569119	59, Jln Wira, tmn Belangi, 11900 Gelugor Pulau Pinang	celine@gmail.com
<a href="#">Edit</a>	100040	Ming Feng	Tan	M	013-9110988	11, Jln Duku, Tmn Wira, 11900 Gelugor Pulau Pinang	mingfeng@yahoo.com
<a href="#">Edit</a>	100043	Ken	Lee	M	01734526722	987 Jalan Georgetown Taman Penang 70100 Penang	kenlee@gmail.com
<a href="#">Edit</a>	100001	Zeng Qi	Ching	M	011-22034954	10, Jln Besar, Tmn Bahagia, 11900 Bayan Lepas, Pulau Pinang	chingzq@gmail.com
<a href="#">Edit</a>	100002	Muhammad	Ali	M	012-6230447	B-11, Jln Merbah, Bayan Dermai Apartment, 11900 Bayan Lepas, Pulau Pinang	ali1992@gmail.com
<a href="#">Edit</a>	100003	Zhi Qing	Alice Tan	F	010-3996267	57, Jln Sungai, Tmn Sri Aman, 11700 Gelugor, Pulau Pinang	alice0701@gmail.com
<a href="#">Edit</a>	100004	Sharmila	A/P Murgan	F	011-10654899	23, Lorong Mernati, Tmn Anggerik, 11700 Gelugor, Pulau Pinang	sharmila@gmail.com

## Members Report

- interactive report
- details of members

# SYSTEM IMPLEMENTATION

CMM Gym Centre Database

shimin0604@student.usm.my

Home Customer Registration Invoice Report Members Membership Status New Member Form Performance Report Membership Duration (Chart) Member Details Training Session Trainers

## Members

New Member

	Member Id	Member Fname	Member Lname	Member Gender	Member Phone No	Member Address	Member Email
<a href="#">Edit</a>	100024	Li Li	Chiew	F	015-6829421	23, Jln Pewira, Tmn Belangi, 11900 Gelugor Pulau Pinang	lilichiew@gmail.com
<a href="#">Edit</a>	100028	Celine	Loh	F	012-7569119	59, Jln Wira, tmn Belangi, 11900 Gelugor Pulau Pinang	celine@gmail.com
<a href="#">Edit</a>	100040	Ming Feng	Tan	M	013-9110988	11, Jln Duku, Tmn Wira, 11900 Gelugor Pulau Pinang	mingfeng@yahoo.com
<a href="#">Edit</a>	100043	Ken	Lee	M	01734526722	987 Jalan Georgetown Taman Penang 70100 Penang	kenlee@gmail.com
<a href="#">Edit</a>	100001	Zeng Qi	Ching	M	011-22034954	10, Jln Besar, Tmn Bahagia, 11900 Bayan Lepas, Pulau Pinang	chingzq@gmail.com
<a href="#">Edit</a>	100002	Muhammad	Ali	M	012-6230447	B-11, Jln Merbah, Bayan Dermai Apartment, 11900 Bayan Lepas, Pulau Pinang	ali1992@gmail.com
<a href="#">Edit</a>	100003	Zhi Qing	Alice Tan	F	010-3996267	57, Jln Sungai, Tmn Sri Aman, 11700 Gelugor, Pulau Pinang	alice0701@gmail.com
<a href="#">Edit</a>	100004	Sharmila	A/P Murgan	F	011-10654899	23, Lorong Mernati, Tmn Anggerik, 11700 Gelugor, Pulau Pinang	sharmila@gmail.com

- can be updated, edited or deleted
- can click "New Member" to insert new record

# SYSTEM IMPLEMENTATION

CMM Gym Centre Database

shimin0604@student.usm.my

Home Customer Registration Invoice Report Members Membership Status New Member Form Performance Report Membership Duration (Chart) Member Details Training Session Trainers

## Members

### New Member Form

	Member Id
<a href="#">New</a>	100024
<a href="#">New</a>	100028
<a href="#">New</a>	100040
<a href="#">New</a>	100043
<a href="#">New</a>	100001
<a href="#">New</a>	100002
<a href="#">New</a>	100003
<a href="#">New</a>	100004

New Member Fname:

New Member Lname:

New Member Gender:  ♂  ♀

New Member Phone No:

New Member Address:

New Member Email:

New Duration:

New Start Date:

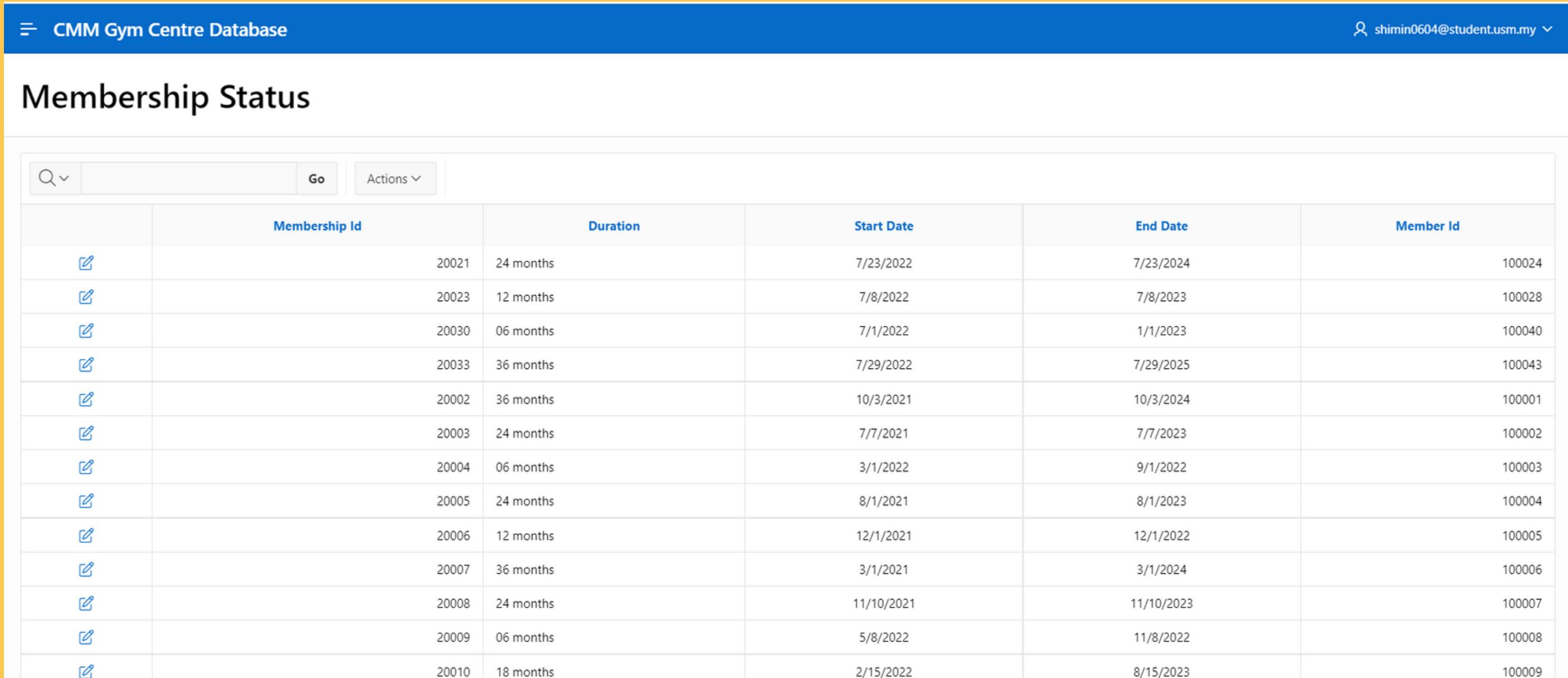
New End Date:

[Cancel](#) [Create](#)

New Member Form

- insert new member details include membership status

# SYSTEM IMPLEMENTATION



The screenshot shows a database interface titled "CMM Gym Centre Database". The main title is "Membership Status". At the top, there is a search bar with a magnifying glass icon, a "Go" button, and an "Actions" dropdown menu. The table has six columns: "Membership Id", "Duration", "Start Date", "End Date", and "Member Id". Each row contains a blue edit icon in the first column and a Member ID in the last column. The data is as follows:

	Membership Id	Duration	Start Date	End Date	Member Id
	20021	24 months	7/23/2022	7/23/2024	100024
	20023	12 months	7/8/2022	7/8/2023	100028
	20030	06 months	7/1/2022	1/1/2023	100040
	20033	36 months	7/29/2022	7/29/2025	100043
	20002	36 months	10/3/2021	10/3/2024	100001
	20003	24 months	7/7/2021	7/7/2023	100002
	20004	06 months	3/1/2022	9/1/2022	100003
	20005	24 months	8/1/2021	8/1/2023	100004
	20006	12 months	12/1/2021	12/1/2022	100005
	20007	36 months	3/1/2021	3/1/2024	100006
	20008	24 months	11/10/2021	11/10/2023	100007
	20009	06 months	5/8/2022	11/8/2022	100008
	20010	18 months	2/15/2022	8/15/2023	100009

## Membership status

- interactive report
- details of membership status

# SYSTEM IMPLEMENTATION

CMM Gym Centre Database shimin0604@student.usm.my

Home Customer Registration Invoice Report Members ▼ Membership Status New Member Form Performance Report Membership Duration (Chart) Member Details Training Session Trainers Invoice Report

## Performance Report

	Report Id	Body Weight	Body Height	Body Fat	Muscle Mass	Member Id	Trainer Id
<a href="#">Edit</a>	10001	60kg	172cm	16.3	35	100001	100000011
<a href="#">Edit</a>	10002	80 kg	175cm	15.5	40	100002	100000002
<a href="#">Edit</a>	10003	45 kg	160.5cm	21	29	100003	100000013
<a href="#">Edit</a>	10004	55.6 kg	166cm	23	31	100004	100000004
<a href="#">Edit</a>	10005	63.4 kg	182.5cm	18	38.5	100005	100000008
<a href="#">Edit</a>	10006	42 kg	158cm	20	28.3	100006	100000006
<a href="#">Edit</a>	10007	56.3 kg	163.5cm	16.8	32	100007	100000017
<a href="#">Edit</a>	10008	50 kg	167cm	14.5	29.5	100008	100000008
<a href="#">Edit</a>	10009	62.7 kg	180cm	18.4	38.6	100009	100000019
<a href="#">Edit</a>	10010	80 kg	177cm	18.9	37	100010	100000010

## Performance Report

- interactive report
- details of member's performance
- can be updated, edited or deleted

# SYSTEM IMPLEMENTATION

CMM Gym Centre Database

shimin0604@student.usm.my

Home Customer Registration Invoice Report Members Membership Status New Member Form Performance Report Membership Duration (Chart) Member Details Training Session Trainers Invoice Report

Performance Report

New Report Form

X

New

Body Weight Body Height

Body Fat Muscle Mass

Member Id Trainer Id

Cancel Create

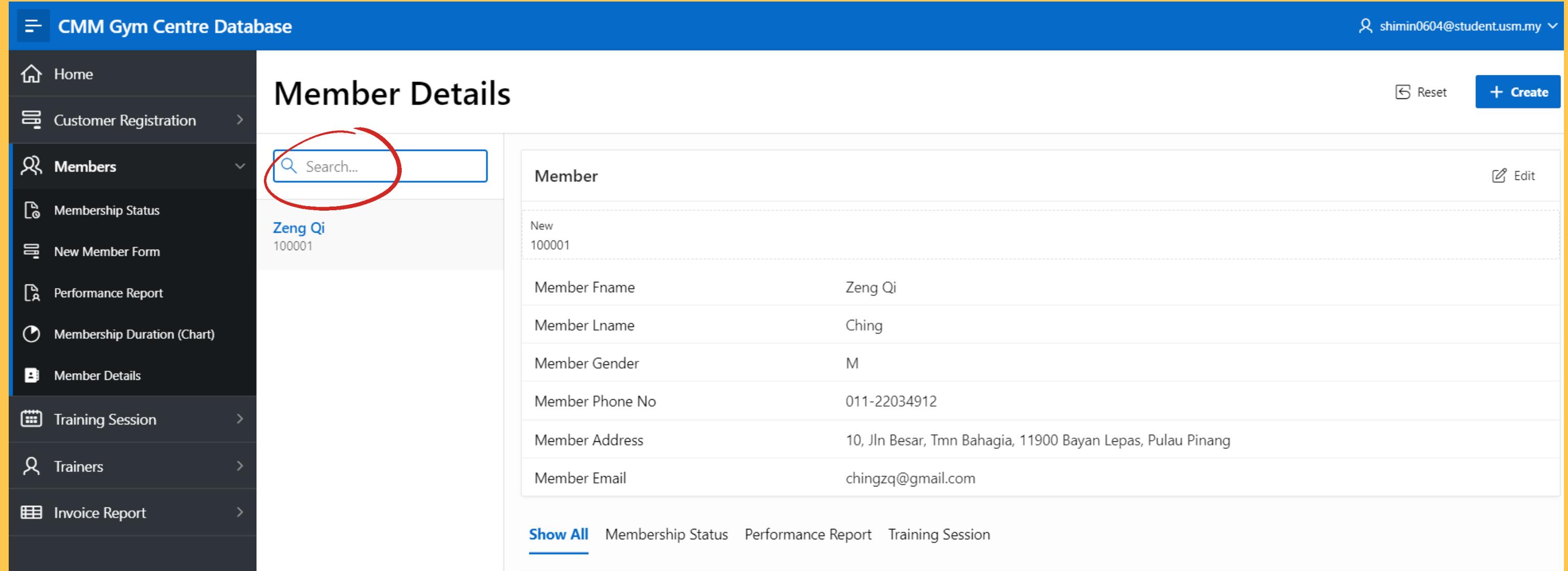
Trainer Id

100000011
100000002
100000013
100000004
100000008
100000006
100000017
100000008
100000019
100000010

Report Form

- insert new member's performance details
- Trigger is used with sequence to insert the Report ID automatically

# SYSTEM IMPLEMENTATION



The screenshot shows the 'Member Details' page of the CMM Gym Centre Database. The left sidebar has a 'Members' section selected, which is highlighted with a red circle around its search bar. The main content area displays member details for 'Zeng Qi' (Member ID: 100001). The details are listed in a table:

Member	Zeng Qi
New	100001
Member Fname	Zeng Qi
Member Lname	Ching
Member Gender	M
Member Phone No	011-22034912
Member Address	10, Jln Besar, Tmn Bahagia, 11900 Bayan Lepas, Pulau Pinang
Member Email	chingzq@gmail.com

At the bottom, there are navigation links: Show All, Membership Status, Performance Report, and Training Session.

## Member details

- master details
- it display all the information related to the member
- member details can be edited, updated or deleted

# SYSTEM IMPLEMENTATION

The screenshot displays the CMM Gym Centre Database interface. The left sidebar shows navigation links: Home, Customer Registration, Invoice Report, Members (selected), Membership Status, New Member Form, Performance Report, Membership Duration (Chart), Member Details (selected), Training Session, Trainers, and Invoice Report.

The main content area is titled "Member Details". It shows a search bar with "xiao" and a table for "Member" with one entry: "Xiao Qiang" (Leong) with ID 100044, status "New". There are "Edit" and "Create" buttons.

Below this, three tabs are visible: "Show All" (selected), Membership Status, Performance Report, and Training Session.

The "Membership Status" section shows a table:

	Membership Id	Duration	Start Date	End Date
<a href="#">Edit</a>	20034	24 months	7/1/2022	7/1/2024

The "Performance Report" section shows a table:

	Report Id	Body Weight	Body Height	Body Fat	Muscle Mass	Trainer Id
<a href="#">Edit</a>	10023	77	180	25	22	100000020

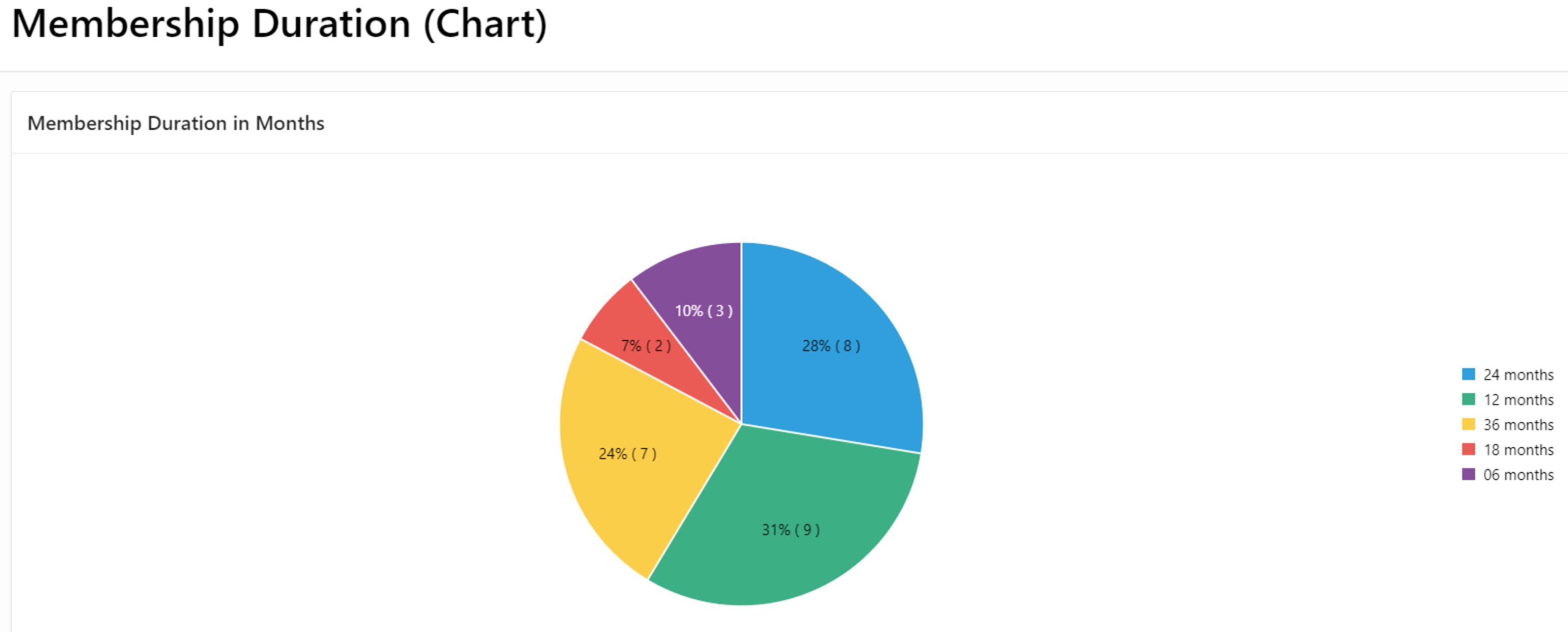
The "Training Session" section shows a table:

	Session Id	Session Time	Session Date	Room Id	Activity Id	Trainer Id
<a href="#">Edit</a>	1021	3:30 PM	7/11/2022	T01	121	100000020

- membership status, performance report and training session can be updated, edited or deleted

# SYSTEM IMPLEMENTATION

## Membership Duration (Chart)



- pie chart
- display member count for each membership period

# SYSTEM IMPLEMENTATION

Session ID	Session Time	Session Date	Room	Activity	Member	Trainer
1011	09:00AM	7/1/2022	Strength Training Room 1	Lower-body strength training	100009	100000013
1014	08:00AM	7/2/2022	Strength Training Room 1	Upper-body strength training	100012	100000011
1016	09:00AM	7/1/2022	Strength Training Room 2	Total-body strength training	100019	100000010
1002	06:00PM	7/1/2022	Yoga Room 1	Ashtanga yoga	100007	100000015
1003	06:00PM	7/2/2022	Yoga Room 1	Ashtanga yoga	100007	100000015
1008	08:00AM	7/1/2022	Yoga Room 1	Vinyasa yoga	100003	100000004
1009	08:00AM	7/2/2022	Yoga Room 1	Vinyasa yoga	100003	100000004
1005	09:00AM	7/1/2022	Aerial Yoga Room 1	Aerial yoga	100004	100000007
1006	04:00PM	7/1/2022	Hot Yoga Room 1	Hot yoga	100001	100000009
1015	02:00PM	7/1/2022	Hot Yoga Room 1	Hot yoga	100017	100000009
1019	04:30PM	7/1/2022	Regular Training Room 2	HIIT	100015	100000012
1017	10:00AM	7/2/2022	Regular Training Room 1	Zumba step	100013	100000017
1018	04:00PM	7/1/2022	Regular Training Room 1	Zumba toning	100014	100000006
1013	05:00PM	7/2/2022	TRX Room 1	TRX	100011	100000003
1001	09:30AM	7/1/2022	Regular Training Room 1	Saltar	100005	100000014
1012	09:30AM	7/1/2022	Regular Training Room 1	Saltar	100006	100000008

Training Session Report

Session Time	Session Date
Room Id	
Activity Id	
Member Id	
Trainer Id	

New Training Session Form

- Interactive report
- Details of training session
- Can be updated, edited or deleted

- Insert new training session
- Trigger is used with sequence to insert the Session ID automatically

# SYSTEM IMPLEMENTATION

The screenshot displays two windows from the 'CMM Gym Centre Database'.  
The left window, titled 'Training Activity Listing', shows a table of training activities with columns: Activity ID, Activity Name, Activity Duration, and Activity Description. The table contains 24 rows of data, each detailing a different type of training activity such as Lower-body strength training, Upper-body strength training, Total-body strength training, Ashtanga yoga, Vinyasa yoga, Animal flow yoga, Aerial yoga, Hot yoga, HIIT, Zumba step, Zumba toning, Pilates, TRX, Saltar, and VIPR.  
The right window, titled 'Training Activity Management', is a form for creating new activities. It has fields for Activity Name, Activity Duration, and Activity Description. There are 'Cancel' and 'Create' buttons at the bottom.

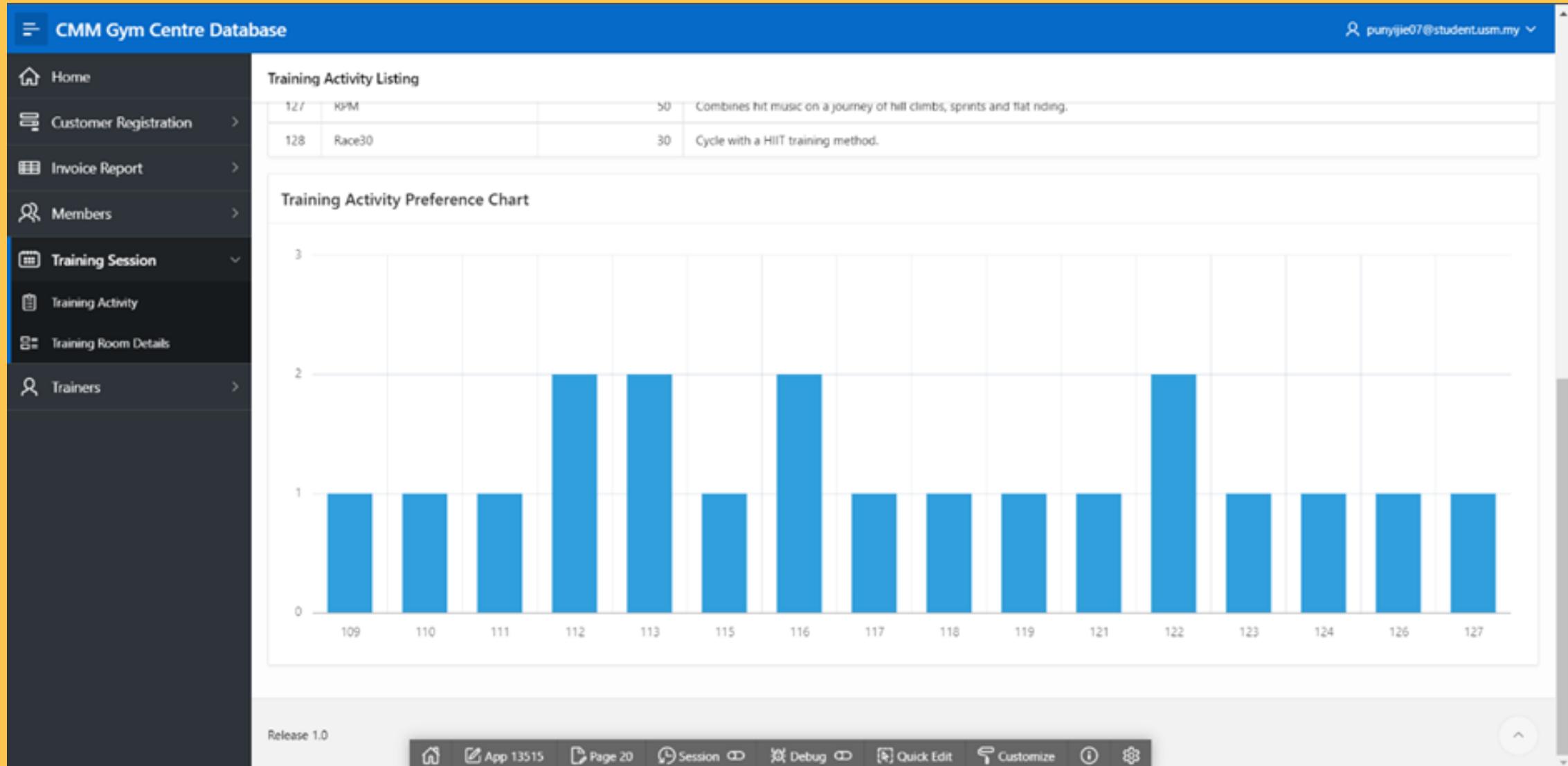
Training Activity Report

- Classic report
- Details of training activity

New Training Activity Form

- Insert new training activity
- Trigger is used with sequence to insert the Activity ID automatically

# SYSTEM IMPLEMENTATION



Training Activity Chart

- Bar Chart
- Count the number of times each training activity was scheduled

# SYSTEM IMPLEMENTATION

CMM Gym Centre Database

Home Customer Registration Invoice Report Members Training Session Training Activity Training Room Details Trainers

## Training Room Details

Order By Room Name

<b>AY</b> Aerial Yoga Room 1 <b>A01</b> 2nd-floor fifth room on the left for aerial yoga purposes	<b>AY</b> Aerial Yoga Room 2 <b>A02</b> 2nd-floor first room on the right for aerial yoga purposes	<b>CR</b> Cycling Room 1 <b>C01</b> 2nd-floor fourth room on the right for cycling workout purposes
<b>CR</b> Cycling Room 2 <b>C02</b> 2nd-floor fifth room on the right for cycling workout purposes	<b>HY</b> Hot Yoga Room 1 <b>H01</b> 2nd-floor second room on the right for hot yoga purposes	<b>HY</b> Hot Yoga Room 2 <b>H02</b> 2nd-floor third room on the right for hot yoga purposes
<b>RT</b> Regular Training Room 1 <b>R01</b> 1st-floor first room on the right for regular training purposes	<b>RT</b> Regular Training Room 2 <b>R02</b> 1st-floor second room on the right for regular training purposes	<b>RT</b> Regular Training Room 3 <b>R03</b> 1st-floor third room on the right for regular training purposes
<b>RT</b> Regular Training Room 4 <b>R04</b>	<b>RT</b> Regular Training Room 5 <b>R05</b>	<b>ST</b> Strength Training Room 1 <b>S01</b>

App 13515 Page 22 Session Debug Quick Edit Customize

Training Room Details

- Cards
- Details of the training room

# SYSTEM IMPLEMENTATION

CMM Gym Centre Database

liaulingye@student.usm.my

Trainers

Trainer ID	Trainer Name	Trainer Phone No	Trainer Address	Trainer Email
100000001	Julian Tan	017-5587423	22 Jln Puyu, Tmn Selayang, 11800 Gelugor, Pulau Pinang.	juliantan@gmail.com
100000002	Isma Rizwani	011-47939601	A57 Lengkok Nipah, Ixora Apartment, 11700 Gelugor, Pulau Pinang.	ismarizwani@gmail.com
100000003	Sasivarman Jesh	012-3578856	7 Jln Bukit Satu, Tmn Jade, 11700 Gelugor, Pulau Pinang.	sasivarman@gmail.com
100000004	Anna Victoria	016-7304193	F-05 Jln Merbah, Bayan Dermai Apartment, 11900 Bayan Lepas, Pulau Pinang.	anna061@gmail.com
100000005	Lee Jui Keong	012-8413366	2 Lorong Merpati, Tmn Wira, 11800 Gelugor, Pulau Pinang.	julikeong@gmail.com
100000006	Sunissa San Chat	011-44635977	23 Jln Kangkong, Tmn Bunga, 11700 Gelugor, Pulau Pinang.	sunissasc@gmail.com
100000007	Lee Shu Ling	017-5562118	A57 Jln ABC, Tmn Sri Jaya, 11900 Bayan Lepas, Pulau Pinang.	slee@gmail.com
100000008	Aina Firzahah	017-4403822	89 Lorong Flamingo, Tmn Ampang, 11800 Gelugor, Pulau Pinang.	ainafir@gmail.com
100000009	Jinny Yek	016-4883209	2738 Jln Loceng, Tmn Dove, 11800 Gelugor, Pulau Pinang.	jinnyek@gmail.com
100000010	Leu Mei Xin	018-5592118	56 Jln Pekan, Tmn Sri Aman, 11700 Gelugor, Pulau Pinang.	meixinl@gmail.com

Trainers Report

- interactive report
- details of trainers
- can be updated, edited or deleted
- inserted with 20 records

New Trainer

Trainer Name

Trainer Phone No

Trainer Address

Trainer Email

Cancel

Create

New Trainer Form

- insert new trainer
- trigger is used with sequence to insert the trainer ID automatically

# SYSTEM IMPLEMENTATION

CMM Gym Centre Database

liaulingyee@student.usm.my

Home  
Customer Registration  
Invoice Report  
Members  
Training Session  
Trainers  
Contract  
Payslip  
Experience  
Experience List  
Contract Length Chart  
Invoice Report

## Contract

	Contract No	Contract Type	Contract Length (in month)	Contract Date	Contract Salary (in RM)	Trainer ID
<input type="checkbox"/>	B2001234	Full-time Contract	12	4/15/2022	1800	100000001
<input type="checkbox"/>	B2001235	Full-time Contract	36	4/15/2022	2000	100000002
<input type="checkbox"/>	B2001236	Part-time Contract	3	4/17/2022	1500	100000003
<input type="checkbox"/>	B2001237	Full-time Contract	24	4/18/2022	1900	100000004
<input type="checkbox"/>	B2001238	Full-time Contract	24	4/18/2022	1900	100000005
<input type="checkbox"/>	B2001239	Full-time Contract	12	4/20/2022	1800	100000006
<input type="checkbox"/>	B2001240	Part-time Contract	6	4/21/2022	1600	100000007
<input type="checkbox"/>	B2001241	Part-time Contract	6	4/21/2022	1600	100000008
<input type="checkbox"/>	B2001242	Part-time Contract	6	4/21/2022	1600	100000009
<input type="checkbox"/>	B2001243	Full-time Contract	24	4/23/2022	1900	100000010

Contract Report

- interactive report
- details about contract of trainers
- can be updated, edited or deleted
- inserted with 20 records

### New Contract

Contract No
Contract Type
Contract Length (in month)
Contract Date
Contract Salary (in RM)
Trainer ID

Cancel Create

New Contract Form

- insert new contract

# SYSTEM IMPLEMENTATION

CMM Gym Centre Database

liaulingye@student.usm.my

Home  
Customer Registration  
Invoice Report  
Members  
Training Session  
Trainers  
Contract  
**Payslip**  
Experience  
Experience List  
Contract Length Chart

## Payslip

	Payslip No.	Pay Date	Gross Pay	Tax	Net Pay	Trainer
<a href="#">Edit</a>	100021	6/15/2022	1800	180	1620	100000001
<a href="#">Edit</a>	100022	6/15/2022	2000	200	1800	100000002
<a href="#">Edit</a>	100023	6/15/2022	1500	150	1350	100000003
<a href="#">Edit</a>	100024	6/15/2022	1900	190	1710	100000004
<a href="#">Edit</a>	100025	6/15/2022	1900	190	1710	100000005
<a href="#">Edit</a>	100026	6/15/2022	1800	180	1620	100000006
<a href="#">Edit</a>	100027	6/15/2022	1600	160	1440	100000007
<a href="#">Edit</a>	100028	6/15/2022	1600	160	1440	100000008
<a href="#">Edit</a>	100029	6/15/2022	1600	160	1440	100000009
<a href="#">Edit</a>	100030	6/15/2022	1900	190	1710	100000010

Payslip Report

- interactive report
- details of payslip given to trainers
- can be updated, edited or deleted
- inserted with 20 records

### New Payslip

Pay Date

Gross Pay

Tax

Net Pay

Trainer ID

[Cancel](#) [Create](#)

New Payslip Form

- insert new payslip every month
- trigger is used with sequence to insert the payslip ID automatically

# SYSTEM IMPLEMENTATION

CMM Gym Centre Database

liaulingyee@student.usm.my

Home Customer Registration Invoice Report Members Training Session Trainers Contract Payslip Experience Experience List Contract Length Chart Invoice Report

Experience

	Trainer ID	Trainer Name	Trainer Phone No	Trainer Address	Trainer Email
<input type="checkbox"/>	100000015	Nurun Nabila	017-8472946	C89 Jln Kangkong, Tmn Ba...	nurunnabila@gmail.com
<input type="checkbox"/>	100000016	Noor Zarina	016-3642847	146 Jln Pantai, Tmn Gembir...	noorzarina@gmail.com
<input type="checkbox"/>	100000017	Ho Hui Ting	012-3476482	135 Jln Menanti, Tmn Darul...	huiting@gmail.com
<input type="checkbox"/>	100000018	Muhammad Izzat	017-3274378	34 Lorong Mergong, Tmn P...	muhammadizzat@Gmail.com
<input type="checkbox"/>	100000019	Lay Wai Kean	016-2747834	C-67 Jln ABC, Tmn Gunung....	wakean@gamil.com
<input type="checkbox"/>	100000020	Nurul Izzati	017-3745274	675 Jln Pantai, Tmn Gembir...	nurulizzati@gmail.com

1 rows selected Total 20

	Trainer ID	Experience Name
<input checked="" type="checkbox"/>	100000001	Bachelors Degree in Fitness

1 rows selected Total 1

Trainer's Experience Report

- master detail report
- records experience owned by trainers
- select the row of the trainer
- view the experience at the bottom.
- inserted with 20 records

# SYSTEM IMPLEMENTATION

The screenshot shows the 'Experience List' page of the CMM Gym Centre Database. The left sidebar contains navigation links for Home, Customer Registration, Invoice Report, Members, Training Session, Trainers, Contract, Payslip, Experience, Experience List (which is selected), Contract Length Chart, and Invoice Report. The main area has a title 'Experience List' and a search bar with 'Go' and 'Actions' buttons. A 'Create' button is at the top right. Below is a table with columns: Experience ID, Experience Name, and Experience Desc. The table contains 10 rows of data:

Experience ID	Experience Name	Experience Desc
EXP_001	Bachelors Degree in Fitness	Trainer has a firm background in human anatomy, nutrition, physical fitness, and other related topics.
EXP_002	Personal Fitness Trainer Certificate	Trainer has the knowledge and understanding of the core region.
EXP_003	Associates Degree in Fitness	Trainer is able to design and coordinate exercise regimens and sports activities.
EXP_004	Bachelors Degree in Health	Trainer has firm background in the principles and practice of health care.
EXP_005	Associates Degree in Health	Trainer has a broad view of the healthcare industry.
EXP_006	Freelance Personal Trainer	Trainer created own workshops and classes for adult learners.
EXP_007	Exercise Program Design	Trainer has experience in designing exercise program.
EXP_008	Group Class Trainer	Monitored and instructed clients during group training sessions.
EXP_009	Biomechanics knowledge	Trainer has the knowledge about concepts and basis of biomechanics.
EXP_010	Fitness Program Planning	Trainer has experience in planning fitness program.

Experience List

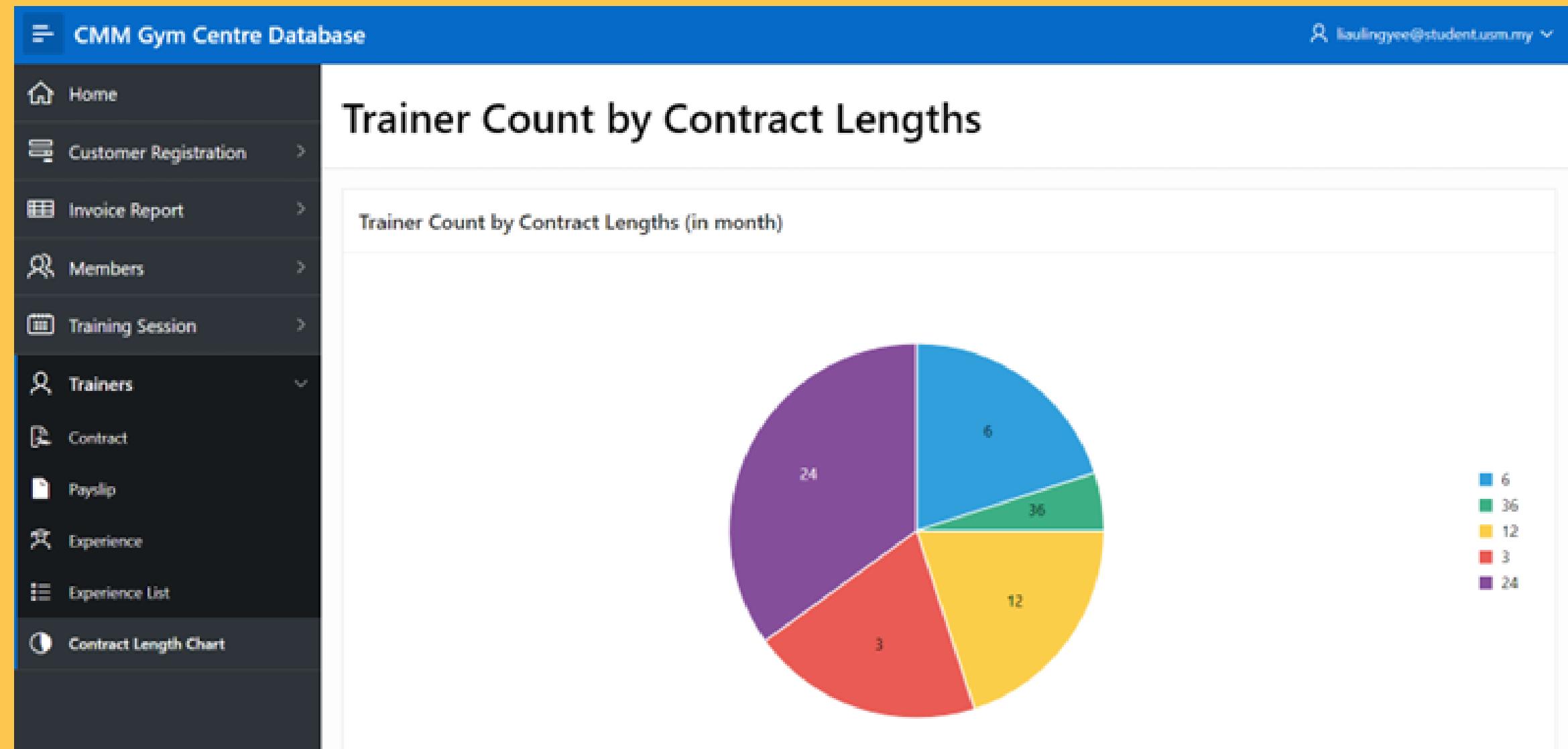
- interactive report
- details of experience
- can be updated, edited or deleted
- inserted with 20 records

The screenshot shows the 'Experience Management' form. It includes fields for Experience ID (disabled), Experience Desc, Experience Name, and a 'Create' button. There are also 'Cancel' and 'X' buttons.

New Experience Form

- insert new experience details

# SYSTEM IMPLEMENTATION



Trainer Count by Contract Lengths Chart

- pie chart
- display trainer count for each contract length

# Conclusion



- improved expertise & comprehension of database administration system
- gave a new informative learning experience
- provided an inside look into database management system field
- had opportunity to experience variety of tasks performed by database developers