

DBMS - Mini Project
Title of the Project

Submitted By:
H M Mythreya
PES2UG20CS130
V Semester Section C

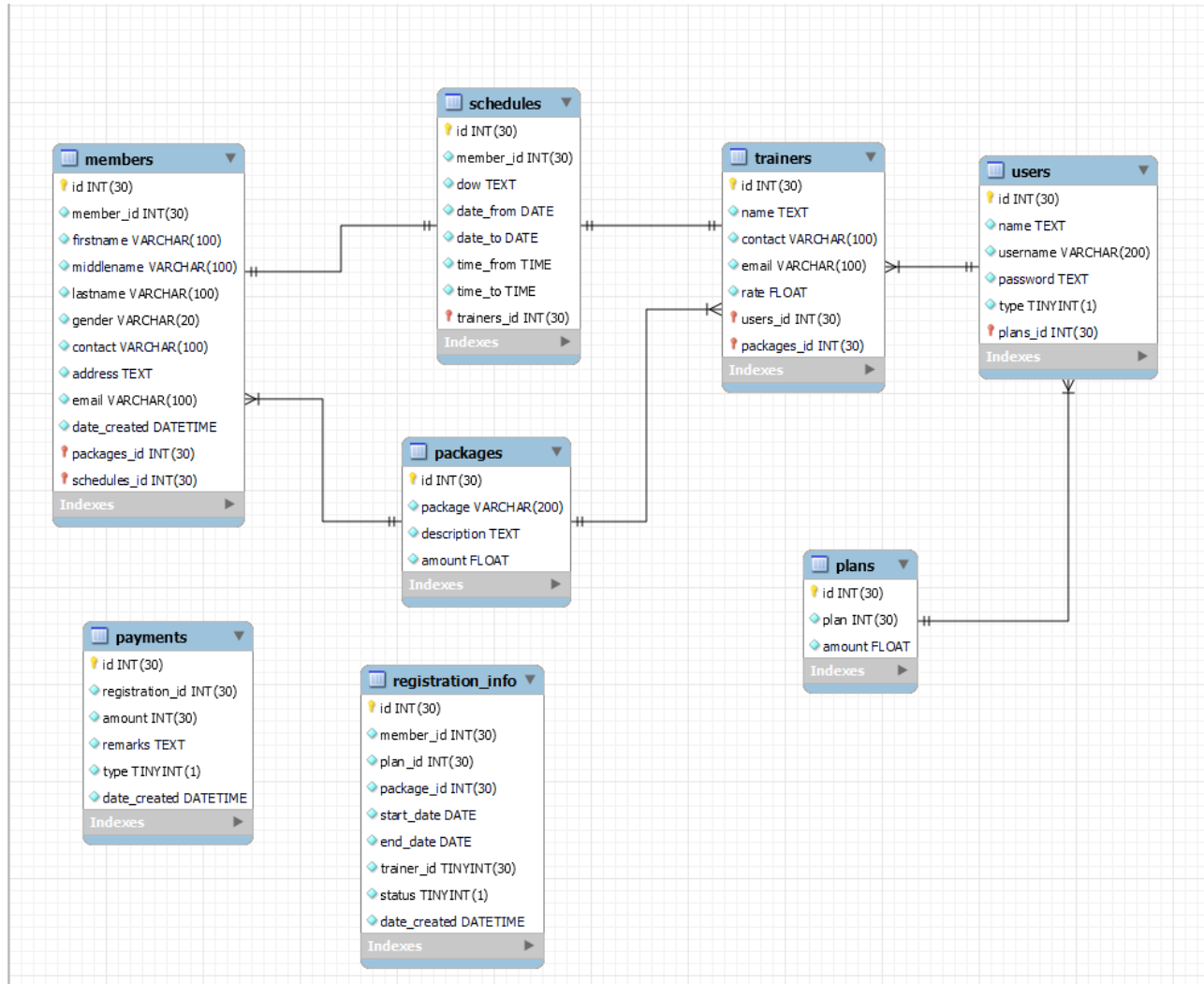
Short Description and Scope of the Project

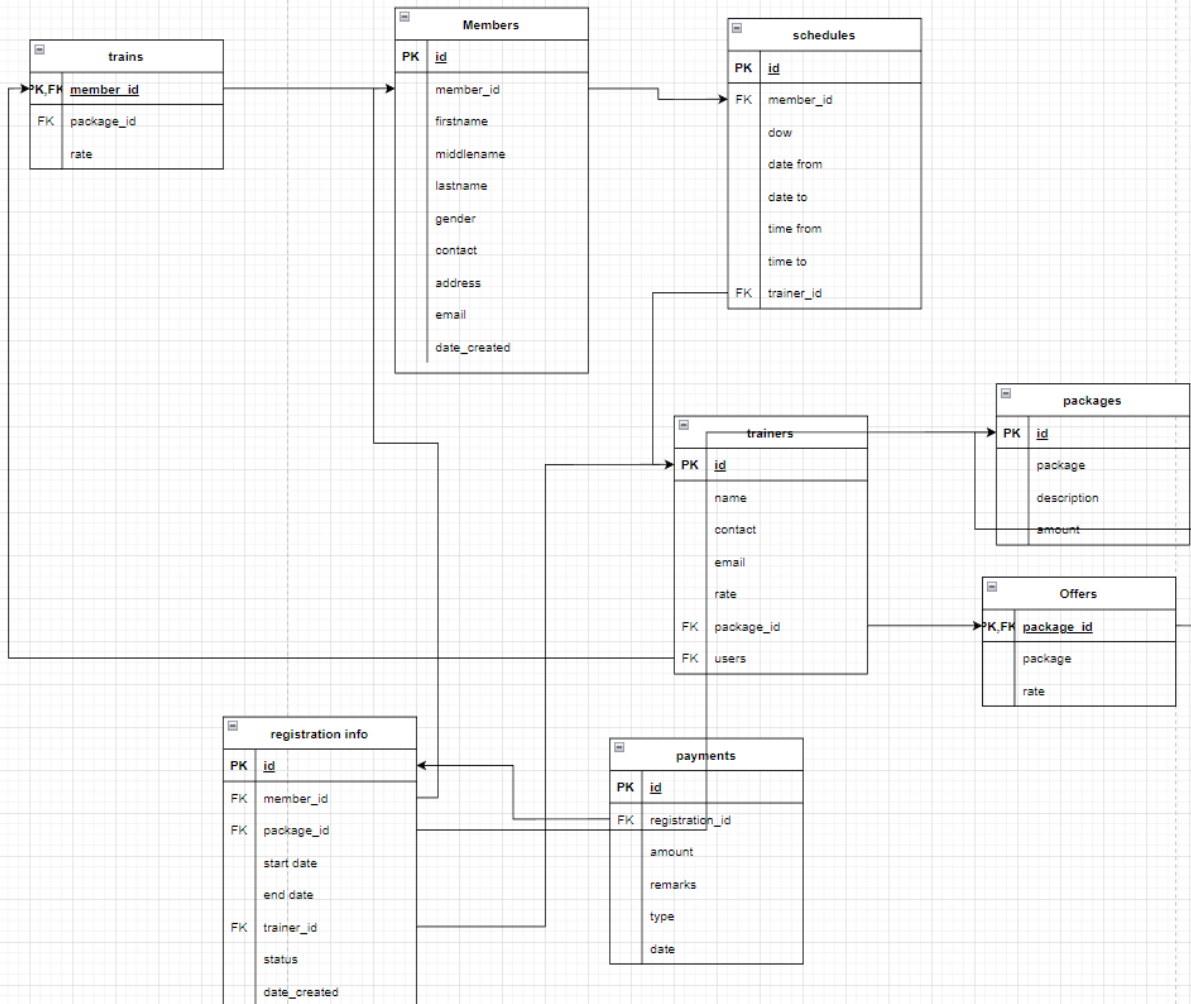
Gym Management system. A simple website and database to handle gym subscriptions. The website has register and login features allowing members to create accounts and buy a package. The website can also be used to book sessions and see trainer schedules. On the admin side, the website can be used to edit packages, users, control the schedule, add new packages, etc.

Scope:

Can help gym businesses keep track of schedules, members, trainers, packages, etc. Editing packages and plans can be done easily in the frontend itself if logged in as admin, this can enable trainers to directly change schedules or plans without having to know any sql programming

ER Diagram and Relational Schema





DDL statements - Building the database

```
CREATE DATABASE gym_db  
USE gym_db
```

```
CREATE TABLE members(id int, member_id int, firstname varchar(100),  
middlename varchar(100), lastname varchar(100), gender varchar(20), contact  
int, address varchar(100), email varchar(100), date_created datetime,  
PRIMARY KEY (ID))
```

```
CREATE TABLE packages(id int, package varchar(100), description text,  
amount float, PRIMARY KEY (id))
```
















```
CREATE TABLE registration_info(id int, member_id int, package_id int,  
start_date date, end_date date, trainer_id tinyint, status tinyint, date_created  
datetime, PRIMARY KEY (id))
```

```
CREATE TABLE trainers(id int, name varchar(100), contact varchar(100),  
email varchar(100), rate float, PRIMARY KEY (id))
```











```
CREATE TABLE users(id int, name varchar(200), username varchar(200),  
password text, type tinyint, PRIMARY KEY (id))
```

Populating the Database
















members table:

Table 1: User Details																
				id	member_id	firstname	middlename	lastname	gender	contact	address	email	date_created			
<input type="checkbox"/>		Edit		Copy		Delete	1	103197	Mythreya	H	M	Male	8310712803	ABC	hm.mythreya@gmail.com	2022-03-11 00:00:00
<input type="checkbox"/>		Edit		Copy		Delete	2	199087	Bhavya	N		Female	1234567890	XYZ	bhavya@gmail.com	2022-03-10 11:41:06
<input type="checkbox"/>		Edit		Copy		Delete	3	199233	Random	Name	hi	Male	1231231231	Secret	rand@yahoo.com	2016-03-10 11:41:06
<input type="checkbox"/>		Edit		Copy		Delete	4	129653	Hello	World		Other	9998887771	who knows	hello@world.com	2019-11-07 19:36:42
<input type="checkbox"/>		Edit		Copy		Delete	5	111246	DBMS	Mini	Project	Other	2468246824	PES University	dbms@project.com	2022-11-19 19:39:10

packages table:

<div><div>←T→</div><div></div></div>				id	package	description	amount
<input type="checkbox"/>	 Edit	 Copy	 Delete	1	Basic Trial Package	1 Week Trial For those who want to trial the facil...	0
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	Basic GYM Package	6 Months of GYM Package. Does not include trainers...	5000
<input type="checkbox"/>	 Edit	 Copy	 Delete	3	Pro Gym Package	6 Months of Pro GYM Package. Members will recieve ...	7000
<input type="checkbox"/>	 Edit	 Copy	 Delete	4	Premium GYM Package	12 Months of ultimate premium GYM Package. 20 Trai...	24000

registration_info table:

←T→				id	member_id	package_id	start_date	end_date	trainer_id	status	date_created	
										0=Inactive, 1= Active		
<input type="checkbox"/>		Edit	 Copy	 Delete	1	1	4	2022-03-11	2023-03-11	0	1	2022-03-11 00:00:00
<input type="checkbox"/>		Edit	 Copy	 Delete	2	2	2	2022-09-10	2023-02-10	0	1	2022-03-10 11:41:06
<input type="checkbox"/>		Edit	 Copy	 Delete	3	3	2	2016-03-10	2016-09-10	0	0	2016-03-10 00:00:00
<input type="checkbox"/>		Edit	 Copy	 Delete	4	4	3	2019-11-07	2020-05-07	0	0	2019-11-07 19:36:42
<input type="checkbox"/>		Edit	 Copy	 Delete	5	5	1	2022-11-19	2022-11-26	0	1	2022-11-19 19:39:10

Join Queries

```
SELECT firstname, end_date FROM registration_info  
JOIN members ON members.id = registration_info.member_id
```

firstname	end_date
Mythreya	2023-03-11
Bhavya	2023-02-10
Random	2016-09-10
Hello	2020-05-07
DBMS	2022-11-26

```
SELECT firstname, contact, end_date FROM members  
JOIN registration_info ON members.id = registration_info.member_id  
WHERE registration_info.status = 0
```

firstname	contact	end_date
Random	1231231231	2016-09-10
Hello	9998887771	2020-05-07

```
SELECT firstname, start_date FROM registration_info  
JOIN members ON members.id = registration_info.member_id
```

firstname	start_date
Mythreya	2022-03-11
Bhavya	2022-09-10
Random	2016-03-10
Hello	2019-11-07
DBMS	2022-11-19

Aggregate Functions

```
SELECT COUNT(firstname) FROM members
```

COUNT(firstname)
5

```
SELECT COUNT(name) FROM trainers
```

COUNT(name)
1

```
SELECT COUNT(firstname) FROM members  
JOIN registration_info ON registration_info.member_id = members.id  
WHERE registration_info.status = 1
```

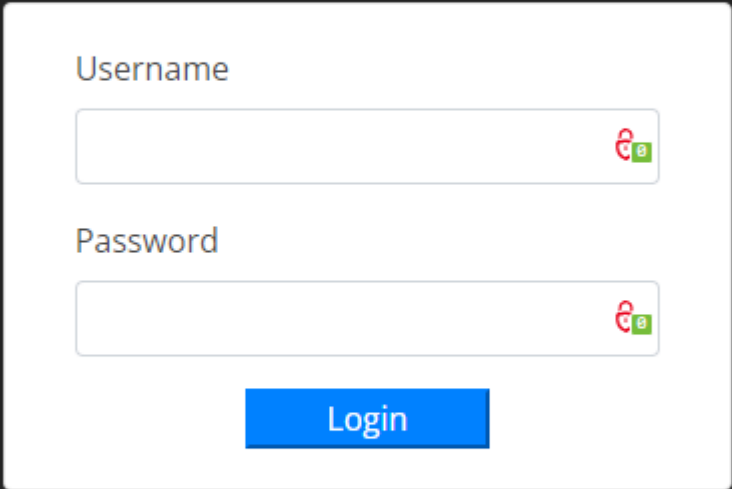
COUNT(firstname)
3

```
SELECT COUNT(firstname) FROM members  
JOIN registration_info ON registration_info.member_id = members.id  
WHERE registration_info.status = 0
```

COUNT(firstname)
2

Developing a Frontend

Login Page



A login form is centered on a dark gray background. The form is a white rounded rectangle containing two input fields and a button. The first field is labeled "Username" and the second is labeled "Password". Both fields have a red eye icon with a green square next to it, indicating a toggle for password visibility. Below the fields is a blue button with the text "Login".

Username

Password

Login

Admin can edit, delete or add new entries to members and packages directly from frontend

Member List					+ New
Show 10 entries					Search: <input type="text"/>
#	Member ID	Name	Email	Contact	Action
1	199087	, Bhavya N	bhavya@gmail.com	1234567890	View Edit Delete
2	129653	, Hello World	hello@world.com	9998887771	View Edit Delete
3	199233	Hi, Random Name	rand@yahoo.com	1231231231	View Edit Delete
4	103197	M, Mythreya H	hm.mythreya@gmail.com	8310712803	View Edit Delete
5	111246	Project, DBMS Mini	dbms@project.com	2468246824	View Edit Delete
Showing 1 to 5 of 5 entries					Previous 1 Next

Package Form

Package Name

Description

Amount

Save

Cancel

Package List

Show 10 entries

Search:

#	package	Amount	Action
1	package: Basic Trial Package Description: 1 Week Trial For those who want to trial the facilities	0.00	<div>Edit</div> <div>Delete</div>
2	package: Basic GYM Package Description: 6 Months of GYM Package. Does not include trainers or any additional facilities	5,000.00	<div>Edit</div> <div>Delete</div>
3	package: Pro Gym Package Description: 6 Months of Pro GYM Package. Members will recieve 10 trainer sessions, 2 professional diets according to your needs, and unlimited workout plans. Other facilities not included	7,000.00	<div>Edit</div> <div>Delete</div>

Admin can also create schedules

Gym Management System

Angel Jude Suarez ▾

Home

Members

Membership Validity

Schedule

Plans

Packages

Trainers

Users

< > today

November 2022

month week day list

Sun	Mon	Tue	Wed	Thu	Fri	Sat
W44 30	31	1	2	3	4	5
W45 6	7	8	9	10	11	12
W46 13	14	15	16	17	18	19
W47 20	21	22	23	24	25	26
20	21	22	23	24	25	26