

Project Report on

GYM MASTER



SUBMITTED IN PARTIAL FULFILLMENT OF THE
AWARD OF

PG - Diploma in Advanced Computing
(PG-DAC)

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This project “GYM MASTER” was truly a great learning experience for us and we are submitting this work to Advanced Computing Training School (PG-DAC).

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Our heartfelt thanks to Ms. Shilpi Shalini our Course Coordinator, C-DAC who has always been available to support and advice to all the necessities.

ABSTRACT

As modernization is taking over the existing systems, digitalization of services has become part of our daily life. The Gym Master will be designed to facilitate gyms to automate its operations of keeping records and store them in form of large and user friendly database further facilitating easy access to the user. In this system the administrator can perform the task like adding or removing members and keeping the client's attendance and subscription record as well as Trainer's attendance and salary records. This system also gives clients freedom to manage their profile and subscription.

INTRODUCTION

Our "GYM MASTER " is for those who run a gym business. Before doing anything, we did decent research on major difficulties for gym owners. We examined carefully about how to make a huge registering system without failure as well as different functions for different kind of user depending on their privilege. The Gym management requires a system that will handle all the necessary and minute details easily and proper database security accordingly to the user. They require software, which will store data about members, employees, products, payroll, receipts of members & all transactions that occur in Gym. As modernization is taking over the existing systems, digitalization of services has become part of our daily life. The Gym Master will be designed to facilitate gyms to automate its operations of keeping records and store them in form of large and user-friendly database further facilitating easy access to the user. In this system the administrator can perform the task like adding or removing members and keeping the client's attendance and subscription record as well as Trainer's attendance and salary records. This system also gives clients freedom to manage their profile and subscription.

TECHNOLOGY USED

1. **Spring framework:** : Spring Framework is a Java platform that provides comprehensive infrastructure support for developing Java applications. Spring handles the infrastructure so you can focus on your application. Spring enables you to build applications from “plain old Java objects” (POJOs) and to apply enterprise services non-invasively to POJOs. This capability applies to the Java SE programming model and to full and partial Java EE.
2. **HTML:** Hyper Text Mark-up Language is the predominant mark-up language for web pages. It provides a means to describe the structure of text-based information in a document and to supplement that text with interactive forms, embedded images, and other objects.
3. **React JS:** react is a free and open-source front-end JavaScript library^[3] for building user interfaces based on UI components. React can be used as a base in the development of single-page, mobile, or server-rendered applications with frameworks like Next.js.
4. **MySQL:** MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.

FUNCTIONAL REQUIREMENTS

Admin module

- i. Admin login
- ii. Admin validation
- iii. Enquiry form
- iv. Manage customers
- v. View customers list
- vi. Update customers status
- vii. Delete customer
- viii. Customer attendance
- ix. Manage Trainer
- x. View trainer List
- xi. Update trainer's status
- xii. Delete trainer
- xiii. Trainer attendance
- xiv. BMI calculator
- xv. Admin log out

DATA FLOW DIAGRAM

The DFD takes an input-process-output view of a system i.e. data objects flow into the software, are transformed by processing elements, and resultant data objects flow out of the software.

Data objects represented by labelled arrows and transformation are represented by circles also called as bubbles. DFD is presented in a hierarchical fashion

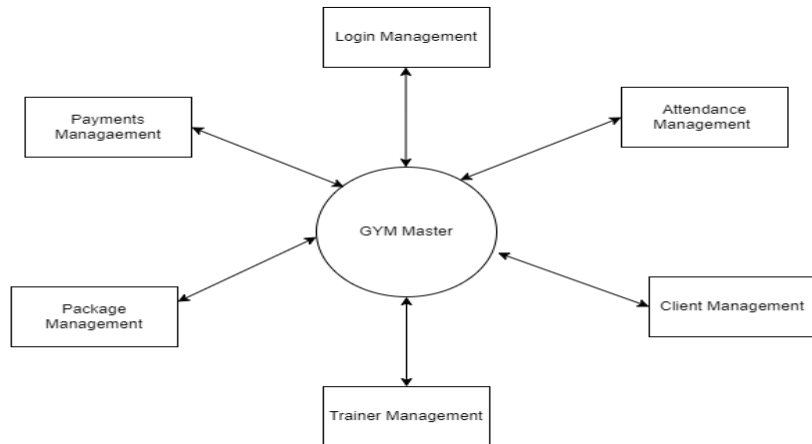
i.e. the first data flow model represents the system as a whole. Subsequent DFD refine the context diagram (level 0 DFD), providing increasing details with each subsequent level.

The DFD enables the software engineer to develop models of the information domain & functional domain at the same time. As the DFD is refined into greater levels of details, the analyst perform an implicit functional decomposition of the system. At the same time, the DFD refinement results in a corresponding refinement of the data as it moves through the process that embody the applications.

A context-level DFD for the system the primary external entities produce information for use by the system and consume information generated by the system. The labelled arrow represents data objects or object hierarchy.

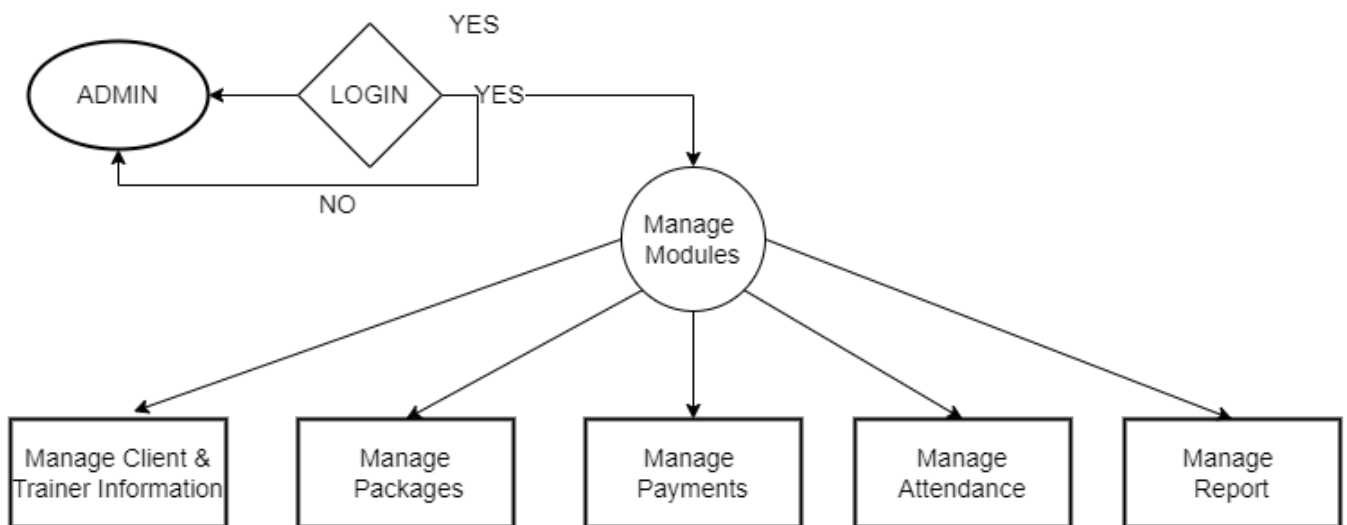
DFD DIAGRAMS

DFD Level 0 :-



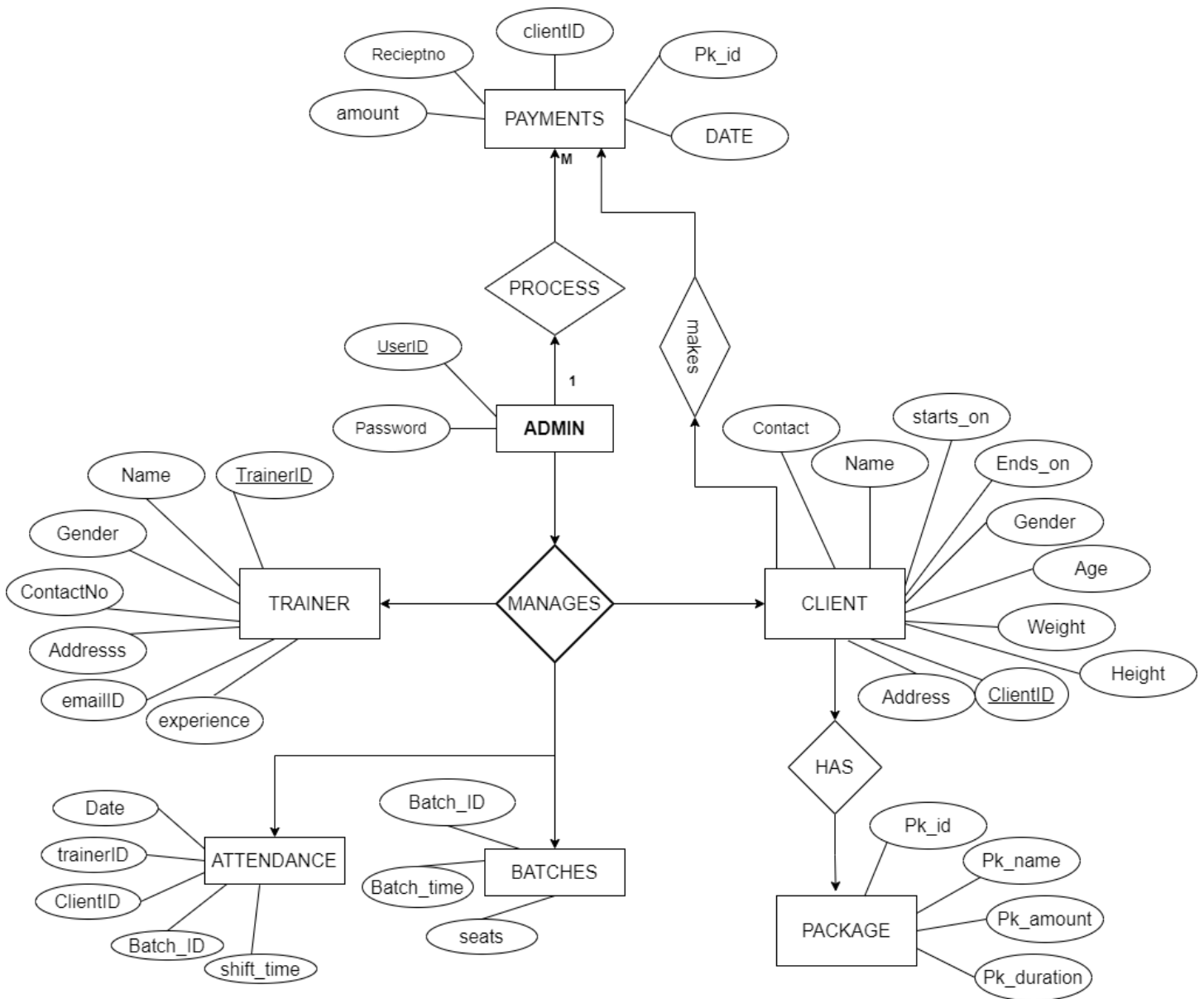
Dig1: DFD Level 0

DFD Level 1 :-



Dig 2: DFD Level 1

ER-Diagram



Dig 3 :-ER-Diagram

DATABASE TABLES

1. All Tables

Tables_in_gym_management
admin
attendance
customer
enquiry
package_detail
trainer

6 rows in set (0.04 sec)

2.Admin Table

```
mysql> desc admin;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
password	varchar(255)	YES		NULL	
username	varchar(255)	YES		NULL	

3 rows in set (0.00 sec)

3. Attendance Table

```
mysql> desc attendance;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
customer_id	varchar(255)	YES		NULL	
date	varchar(255)	YES		NULL	
is_present	varchar(255)	YES		NULL	
trainer_id	varchar(255)	YES		NULL	

5 rows in set (0.03 sec)

5. Customer table:

```
mysql> desc customer;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
address	varchar(255)	YES		NULL	
age	int	NO		NULL	
batch	varchar(255)	YES		NULL	
contact	varchar(255)	YES		NULL	
dob	varchar(255)	YES		NULL	
email_id	varchar(255)	YES		NULL	
name	varchar(255)	YES		NULL	
package_details	varchar(255)	YES		NULL	
payment	varchar(255)	YES		NULL	
sex	varchar(255)	YES		NULL	
weight	varchar(255)	YES		NULL	

12 rows in set (0.00 sec)

6.Trainer Table:

```
mysql> desc trainer;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
address	varchar(255)	YES		NULL	
age	varchar(255)	YES		NULL	
contact	varchar(255)	YES		NULL	
email_id	varchar(255)	YES		NULL	
experience	varchar(255)	YES		NULL	
name	varchar(255)	YES		NULL	

7 rows in set (0.00 sec)

6. Enquiry Table:

```
mysql> desc enquiry;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
age	varchar(255)	YES		NULL	
date	varchar(255)	YES		NULL	
email_id	varchar(255)	YES		NULL	
name	varchar(255)	YES		NULL	
package_detail	varchar(255)	YES		NULL	
phone_no	varchar(255)	YES		NULL	
sex	varchar(255)	YES		NULL	

8 rows in set (0.00 sec)

7. Package Table:

```
mysql> desc package_detail;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar(255)	YES		NULL	

2 rows in set (0.02 sec)

SCREENSHOT (Output)

1 . Home Page (Login)

Admin Login

Username

We'll never share your email with anyone else.

Password

☐ Check me out

[Submit](#)

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2. Admin Registration:

Admin Registration

Username

We'll never share your email with anyone else.

Password

☐ Check me out

[Submit](#)

Already have an account?

[Login](#)

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3. Customer Management:

Customer Management

Add Customer Add

Update Customer Update

Customer Attendance Add

Customer List

Customer Id	Name	Sex	Weight	Email Id	Contact	Delete
9	ashish panchal	Male	68	ashish@gmail.com	9874589612	Delete
10	karan shah	Male	77	karan@gmail.com	9004484758	Delete
11	vivek Daas	Male	68	vkdas@gmail.com	9888741236	Delete
12	aayushi dubey	Female	55	aayushi122gmail.com	9867843652	Delete

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5. Add Customer -

BECOME FITNESS MEMBER !!

Customer Registration

Full Name

Email

Date of Birth

Age

Sex

Choose
▼

Address

Weight

Contact no

Package Details

Choose
▼

Payment

Yes
▼

Batch

Beginner
▼

☐ I agree all the terms and conditions applied

Sign in

6. Trainer Management:

Trainer Management

Add Trainer

Update Trainer

Trainer Attendance

Trainer List

Trainer Id	Name	Age	Address	Email Id	Contact	Experience	
1	priyanka	29	kandivali	priyanka24@gmail.com	8794563214	Level 2	<input type="button" value="Delete"/>
4	aryan kumar	29	goregaon	aryan233@gmail.com	7411258936	Level 3	<input type="button" value="Delete"/>

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Terms & Conditions Apply.

8. Add trainer:

FITNESS TRAINER !!

Trainer Registration

Full Name

Email

Age

Address

Contact no

Experience

Level 1
 ▼

☐ I agree all the terms and conditions applied

Trainer attendance form

[Click here](#)

8.Enquiry Form:

WELCOME TO GYM MASTER !!

Enquiry form

Full Name	Email
<input type="text" value="Enter full name"/>	<input type="text" value="Enter email"/>
Date	Age
<input type="text" value="dd-mm-yyyy"/>	<input type="text" value="Enter age"/>
Sex	
<input type="text" value="Choose"/>	
Contact no	
<input type="text" value="Enter contact no"/>	
Package Details	
<input type="text" value="Choose"/>	
<input type="checkbox"/> Do you want to receive offers on Email	
<input type="button" value="Submit"/>	

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9. BMI Calculator:

BMI Calculator

Height (cm)

Weight (kg)

BMI : NaN

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10. Customer Attendance:

Customer Attendance form

Customer Id

Date

Present

Yes

Submit

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11. Trainer attendance:

Trainer Attendance form

Trainer Id

Date

Present

Yes

Submit

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FUTURE SCOPE

We can enhance this website for multiple purposes:

1. A real time system can be developed so that we may add various functionalities as including the face recognition of the trainer and customer which will show the face of the particular member with the whole details they provide on the website, also we can add scheduling based on training preferences.
2. Excellent UI, which is friendlier, can be develop for the user.
3. Integrate inventory management system to keep record of gym's inventory.
4. The concept used in this website can be modified to develop many other website which can be used to solve issues of different organisation.
5. There is scope of providing personalized training and diet plan.