

Project Report on

GYM MASTER



SUBMITTED IN PARTIAL FULFILLMENT OF THE
AWARD OF

PG - Diploma in Advanced Computing
(PG-DAC)

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PRN

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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 userfriendly 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

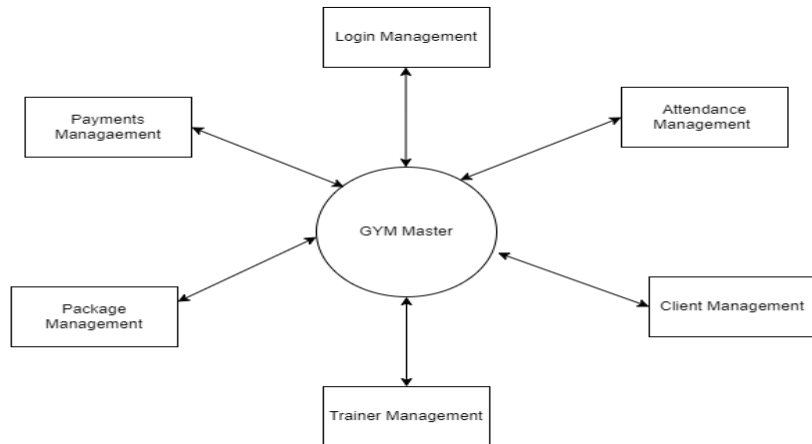
i.e. the first data flow model represents the system as a whole. Subsequent DFD refine the context diagram (level 0 DFD), providing increasing details with each subsequent level.

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.

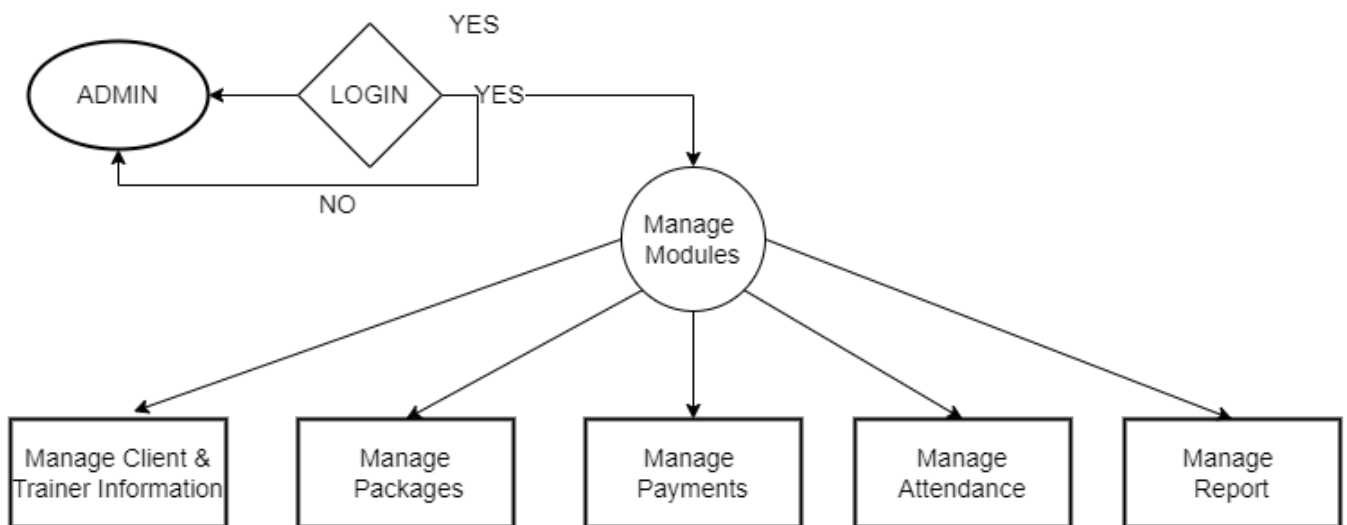
DFD DIAGRAMS

DFD Level 0 :-



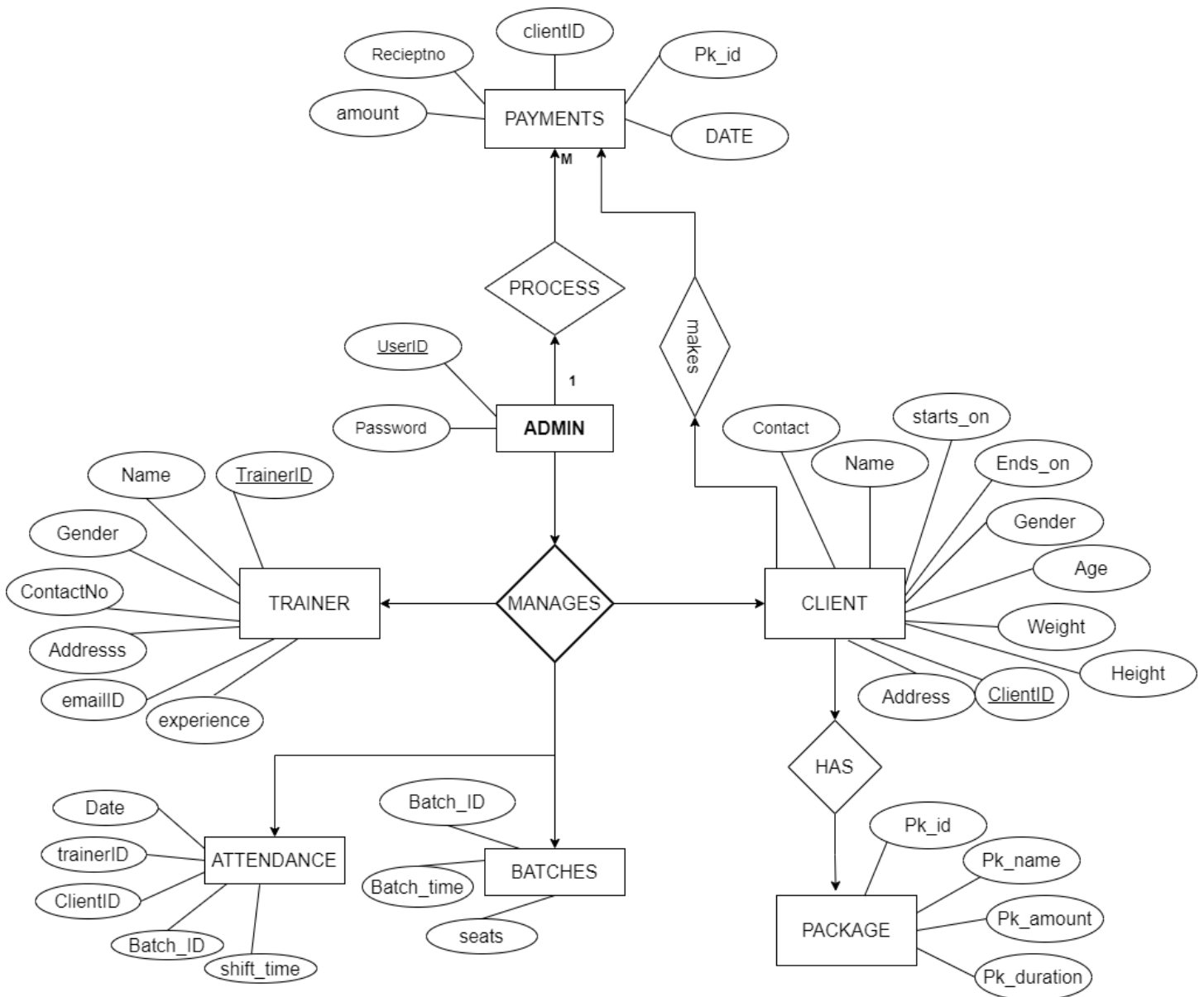
Dig1: DFD Level 0

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

Update Customer

Customer Attendance

Customer List

| Customer Id | Name | Sex | Weight | Email Id | Contact | Delete |
|-------------|----------------|--------|--------|---------------------|------------|---------------------------------------|
| 9 | ashish panchal | Male | 68 | ashish@gmail.com | 9874589612 | <input type="button" value="Delete"/> |
| 10 | karan shah | Male | 77 | karan@gmail.com | 9004484758 | <input type="button" value="Delete"/> |
| 11 | vivek Daas | Male | 68 | vkdas@gmail.com | 9888741236 | <input type="button" value="Delete"/> |
| 12 | aayushi dubey | Female | 55 | aayushi122gmail.com | 9867843652 | <input type="button" value="Delete"/> |

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5. Add Customer -

BECOME FITNESS MEMBER !!

Customer Registration

Full Name

Email

Date of Birth

Age

Sex

Address

Weight

Contact no

Package Details

Payment

Batch

☐ I agree all the terms and conditions applied

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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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.