Project Report on

GYM MASTER

infoway TECHNOLOGIES

सी डैक CDAC ऑक्टस acts
Authorized Training Centre

SUBMITTED IN PARTIAL FULFILLMENT OF THE
AWARD OF

PG - Diploma in Advanced Computing

(PG-DAC)

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ACKNOWLEDGEMENT

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 :-
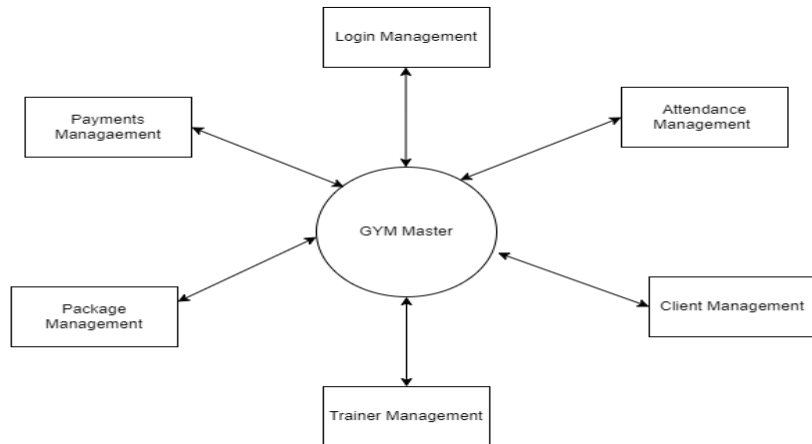
Dig1: DFD Level 0

DFD Level 1 :-
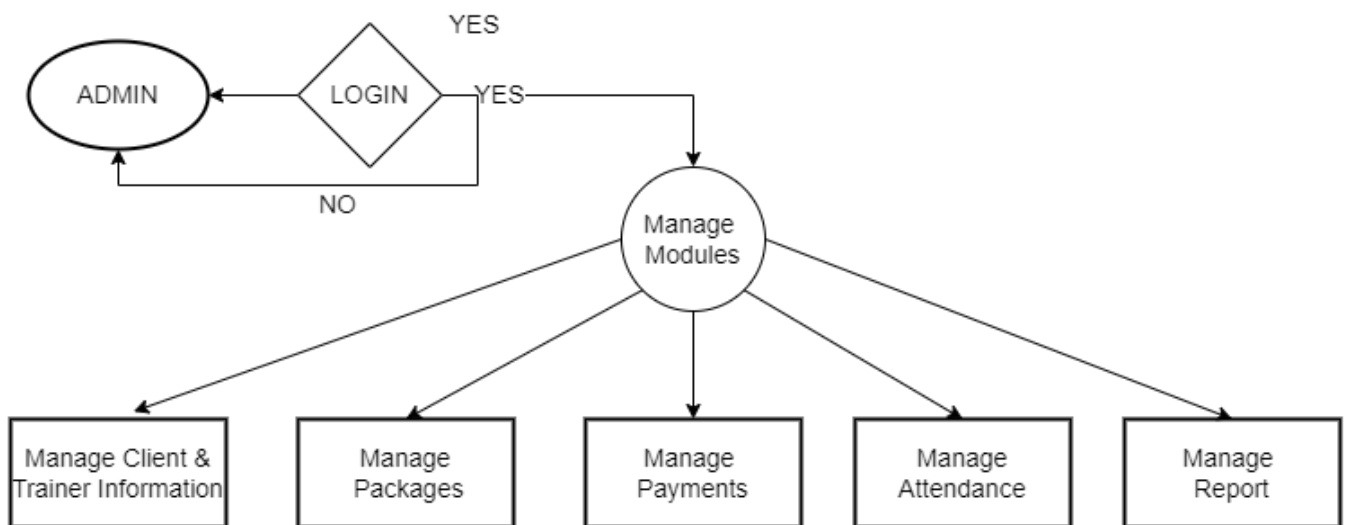
Dig 2: DFD Level 1

ER-Diagram
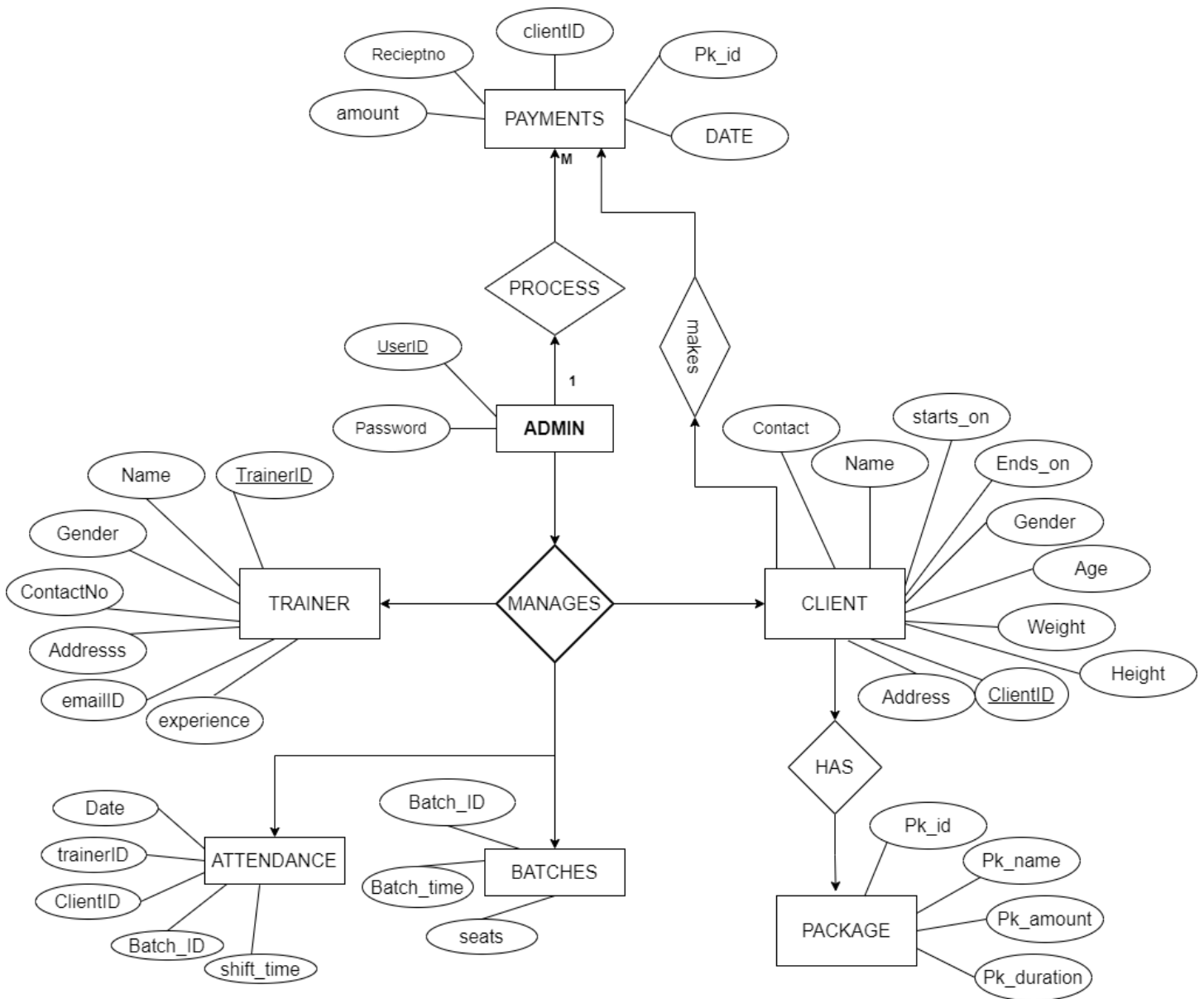
Dig 3 :-ER-Diagram

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

Enter username

We'll never share your email with anyone else.

Password

Password

☐ Check me out

Submit

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Terms & Conditions Apply.

2. Admin Registration:

Admin Registration

Username

Enter username

We'll never share your email with anyone else.

Password

Enter password

☐ Check me out

Submit

Already have an account?

Login

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Terms & Conditions Apply.

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

5. Add Customer -

BECOME FITNESS MEMBER !!

Customer Registration

Full Name

Enter full name

Email

Enter email

Date of Birth

dd-mm-yyyy

Age

Enter age

Sex

Choose

Address

1234 Main St

Weight

Enter weight

Contact no

Enter 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				Add			
Update Trainer				Update			
Trainer Attendance				Add			

Trainer List

| Trainer Id	Name	Age	Address	Email Id	Contact	Experience	
1	priyanka	29	kandivali	priyanka24@gmail.com	8794563214	Level 2	Delete
4	aryan kumar	29	goregaon	aryan233@gmail.com	7411258936	Level 3	Delete

8. Add trainer:

FITNESS TRAINER !!
Trainer Registration

Full Name

Enter full name

Email

Enter email

Age

Enter age

Address

1234 Main St

Contact no

Enter contact no

Experience

Level 1

☐ I agree all the terms and conditions applied

Sign in

Trainer attendance form

Click here

8.Enquiry Form:

WELCOME TO GYM MASTER !!

Enquiry form

Full Name   Email

| Enter full name | | Enter email |

Date   Age

| dd-mm-yyyy | | Enter age |

Sex

| Choose ▼ |

Contact no

| Enter contact no |

Package Details

| Choose ▼ |

☐ Do you want to receive offers on Email

Submit

9. BMI Calculator:

BMI Calculator

Height (cm)

| Enter height |

Weight (kg)

| Enter weight |

BMI : NaN

10.   Customer Attendance:

Customer Attendance form

Customer Id

Enter customer id

Date

dd-mm-yyyy

Present

Yes

Submit

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Terms & Conditions Apply.

11.   Trainer attendance:

Trainer Attendance form

Trainer Id

Enter trainer id

Date

dd-mm-yyyy

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.