+ANUDIP FOUNDATION

A Project Report on

GYM MANAGEMENT SYSTEM

By

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GYM MANAGEMENT SYSTEM

Introducing our Java-based Gym Management System (GMS):

Efficiently oversee every aspect of your gym's operations with our intuitive system. From managing membership and equipment's to maintaining member fees, our GMS empowers you to streamline processes and enhance the fitness experiences.

Entities:

- ❖ Admin
- ❖ User
- ❖ Membership
- ❖ Equipment
- ❖ Fees

ATTRIBUTES OF ENTITIES:

1. Admin
- ❖ Attributes:
- ● adminId (primary key)
- ● adminName
- ● phone
- ● email

2. User
- ❖ Attributes:
- ● userId (primary key)
- ● userName
- ● gender
- ● phone
- ● email
- ● address

3. Membership
- ❖ Attributes:
- ● membershipId (primary key)
- ● membership
- ● membershipDuration
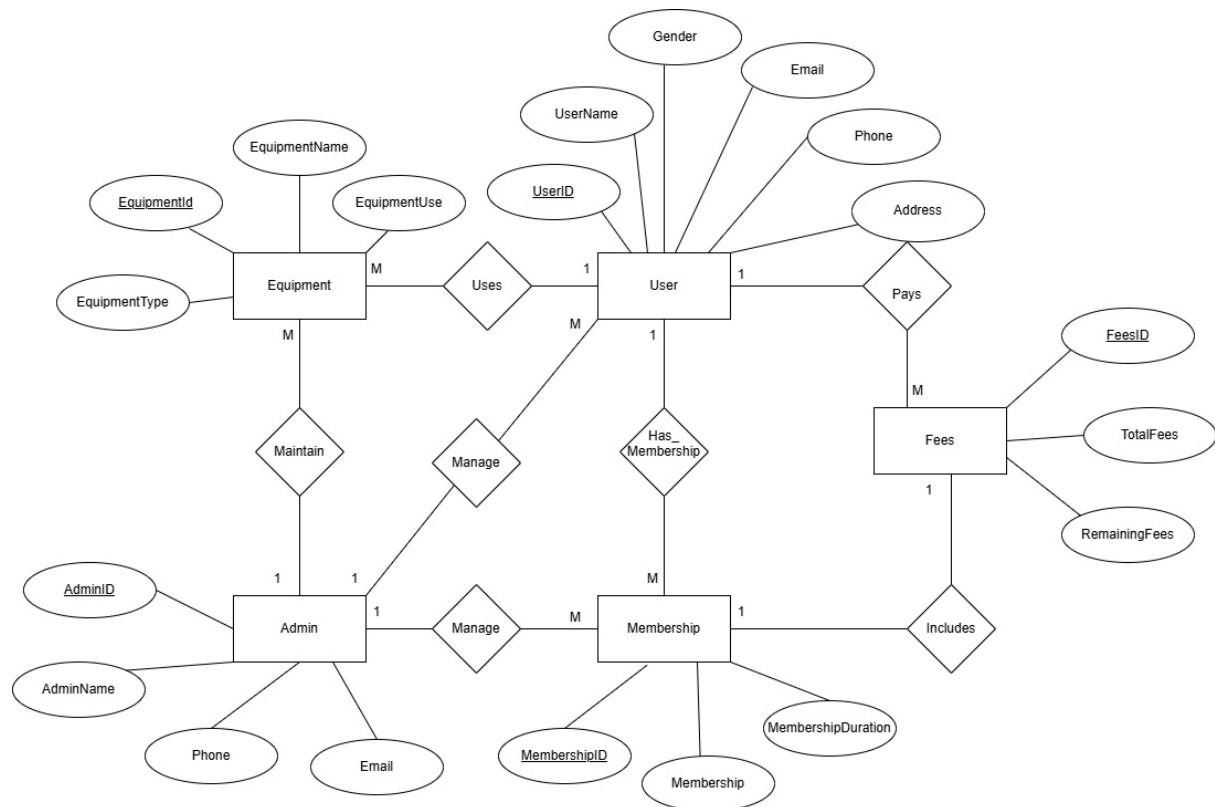
- userId (foreign key)

4. Equipment
  - ❖ Attributes:
  - equipmentId (primary key)
  - equipmentType
  - equipmentName
  - equipmentUse
  - userId (foreign key)

5. Fees
  - ❖ Attributes:
  - feesId(primary key)
  - totalFees
  - remainingFees
  - userId (foreign key)
  - membershipId (foreign key)

ENTITY RELATIONSHIP DIAGRAM - RESTAURANT MANAGEMENT SYSTEM

CONCLUSION:

In summary, a gym management system presents a comprehensive solution aimed at optimizing operations and enhancing the fitness experience for members. By consolidating data and streamlining administrative processes such as membership management, it significantly improves efficiency and accuracy within the gym environment. This system fosters better communication among gym personnel, leading to a smoother workflow and ultimately elevating the quality of service provided to members. Furthermore, by facilitating timely access to critical information such as member preferences, it empowers gym management to make informed decisions that positively impact business performance and customer satisfaction. Overall, a gym management system plays a vital role in modernizing gym operations, driving operational excellence, and delivering an enhanced fitness experience to members.

DATABASE CREATION QUERY:

mysql> create table Admin(

   -> adminId int primary key,

   -> adminName varchar(50),

   -> email varchar(30),

   -> phone varchar(25)

   ->);

Query OK, 0 rows affected (0.43 sec)

mysql> create table User(

   -> userId int primary key,

   -> userName varchar(50),

   -> gender varchar(20),

   -> phone varchar(20),

   -> email varchar(30),

   -> address varchar(100)

   ->);

Query OK, 0 rows affected (0.40 sec)

mysql> create table Membership(

   -> membershipId int primary key,

   -> membership varchar(50),

   -> membershipDuration varchar(50),

   -> userId int,

   -> foreign key (userId) references User(userId)

   ->);

Query OK, 0 rows affected (0.54 sec)

mysql> create table Equipment(

   -> equipmentId int primary key,

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    -> equipmentType varchar(100),

    -> equipmentName varchar(100),

    -> equipmentUse varchar(60),

    -> userId int,

    -> foreign key (userId) references User(userId)

    -> );
Query OK, 0 rows affected (0.75 sec)


mysql> create table Fees(

    -> feesId int primary key,

    -> totalFees decimal(10,2) not null,

    -> remainingFees decimal(10,2),

    -> userId int,

    -> membershipId int,

    -> foreign key (userId) references User(userId),

    -> foreign key (membershipId) references Membership(membershipId)

    -> );
Query OK, 0 rows affected (0.89 sec)


mysql> show tables;
+-----------------------------+
| Tables_in_gymmanagementsystem |
+-----------------------------+
| admin                       |
| equipment                   |
| fees                        |
| membership                  |
| user                        |
+-----------------------------+
5 rows in set (0.00 sec)
```