Gym Management System

Participants

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Introduction :

Gym Management System is a software designed to make it easy to maintain detailed records of members and their memberships, payments ,trainers and their work shifts, payrolls and instruments. It also provides the facility of searching the records efficiently & immediately. This system provides data storing with graphical user interface (GUI).

Motivation :

❖ User friendly system.

❖ Easy to use and efficient system.

❖ To eliminate data redundancy.

❖ To save time & money.

❖ To provide better graphical user interface.

❖ To provide data security.

Scope :

❖ Login system for Manager & Admin providing different privileges.

❖ Advanced search facility.

❖ Storing information of members, employees, instruments.

❖ Check validity of information provided by user.

❖ Information update & delete facility.

❖ Storing information of members according to their id.

❖ Generating reports for different id.

Contribution :

❖ Login system

❖ Different privileges for Manager & Admin

❖ Search option

❖ Storing information of members including package & payment

❖ Storing information of employees including payroll and work hour

❖ Storing information of instruments

❖ Information update & delete facility.

Details of the topic :

- The login system will provide different privilege for admin & manager.

- Managers can only insert and view data but cannot update or delete any data from the system.

- Admins can insert , update & delete any data from the system.

- The system maintains detailed information of employees, members and instruments.

- It keeps information of members, their ids, names, addresses, genders, date of births , emails, packages and payments.
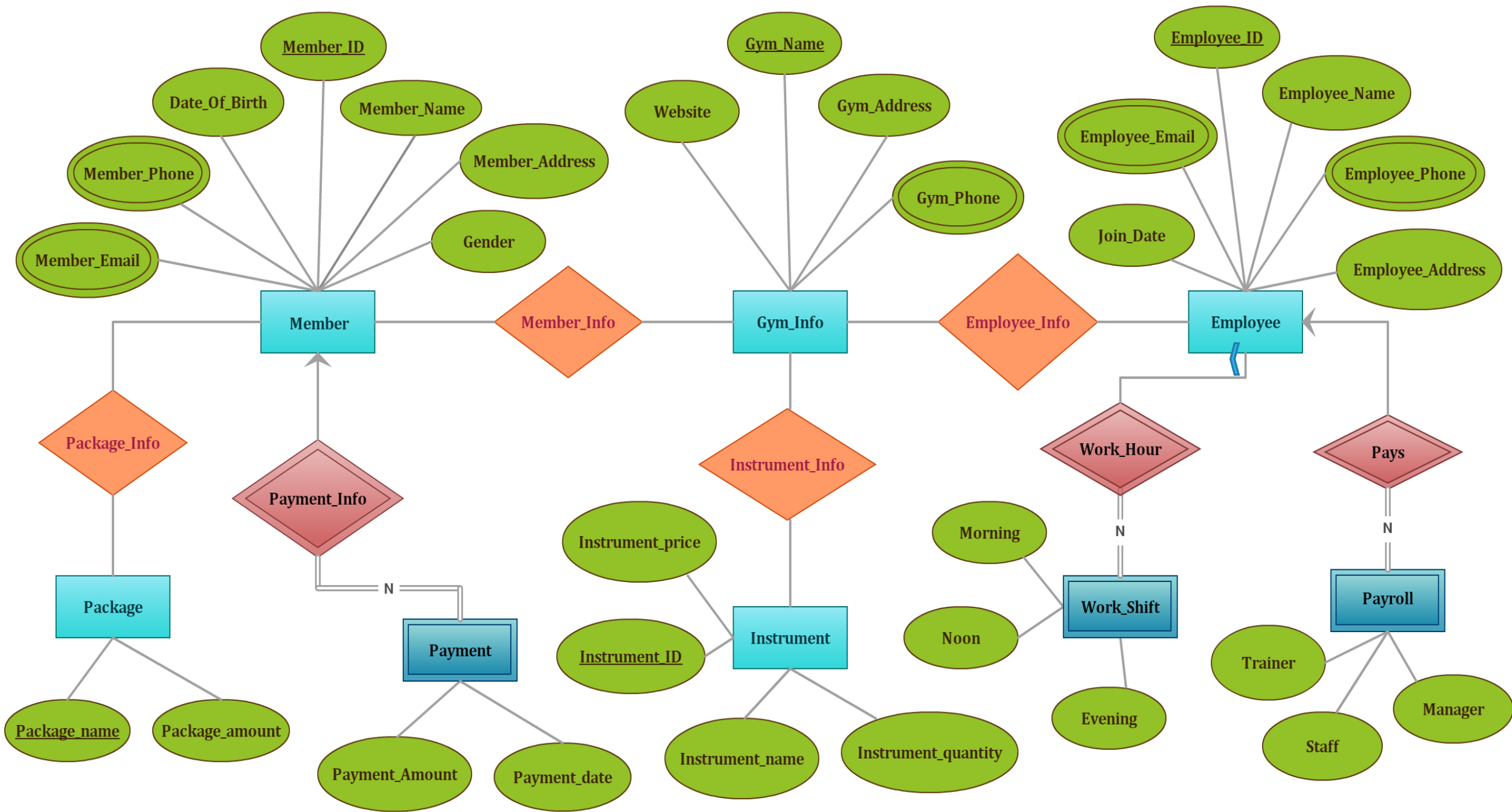
Details of the topic :

- It keeps information of employees, their ids, names, email, phones, addresses, join date, payrolls and work hours.

- It also keeps information of instruments, their ids, names, quantities and prices.

- It provides searching with ID & name.

E-R Diagram

Member_ID

Date_Of_Birth

Member_Name

Member_Phone

Member_Address

Member_Email

Gender

Gym_Name

Website

Gym_Address

Gym_Phone

Employee_ID

Employee_Name

Employee_Email

Employee_Phone

Join_Date

Employee_Address

Member

Member_Info

Gym_Info

Employee_Info

Employee

Package_Info

Payment_Info

Instrument_Info

Work_Hour

Pays

Package

Payment

Instrument

Instrument_price

Instrument_ID

Morning

Noon

N

N

N

Work_Shift

Payroll

Package_name

Package_amount

Payment_Amount

Payment_date

Instrument_name

Instrument_quantity

Evening

Trainer

Manager

Staff

Tabular Representation :

- Member (member_id, member_name, address, date_of_birth, gender)
- Mem_phone (member_id, phone)
- Mem_email (member_id, email)
- Gym_info (gym_name, gym_address, website)
- Gym_phone (gym_name, gym_phone)
- Employee (employee_id, employee_name, employee_address, join_date)
- Emp_phone (employee_id, employee_phone)
- Emp_email (employee_id, employee_email)
- Package (package_name, package_amount)
- Instrument (instrument_id, instrument_name, instrument_price, instrument_quantity)
- Payment (member_id, payment_amount, payment_date)
- Work_shift (employee_id, morning, noon, evening)
- Payroll (employee_id, trainer, staff, manager)
- Package_info (member_id, package_name)
- Instrument_info (gym_name, instrument_id)
- Member_Info(member_id, gym_name)
- Employee_Info(gym_name, employee_id)

Conclusion:

So finally, by using this system, we hope that it will minimize human effort and time. It will be very easy for the user to use and insert information for it's user friendly interface. It will also be possible to eliminate data redundancy and data inconsistency and will provide a good security with it's password protected login system.