Object oriented concept project

on

GYM MANAGEMENT SYSTEM

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Index

GYM MANAGEMENT

Gym Management System

Introduction

INTRODUCTION

- Now a days online service is a best competitive edge for any organization which makes it differ from other organizations.

- The gym management system is such a system which provide best platform for ease of access to gym staff, customer can check his updates online anytime about fitness or diet plan.

- The focus of this project is about online services for a fitness club but minimizing all those defects which are found in currently available manually file system.

- This is a best platform for the customers abd gym staff to interact freely with each other.

- PROJECT GOAL

- To remove the manual or paper work in the fitness club.
- Provide a platform with interaction user interface for both customer and user
- Save the time of both admin and customer.
- Get online plan in efficient manner.
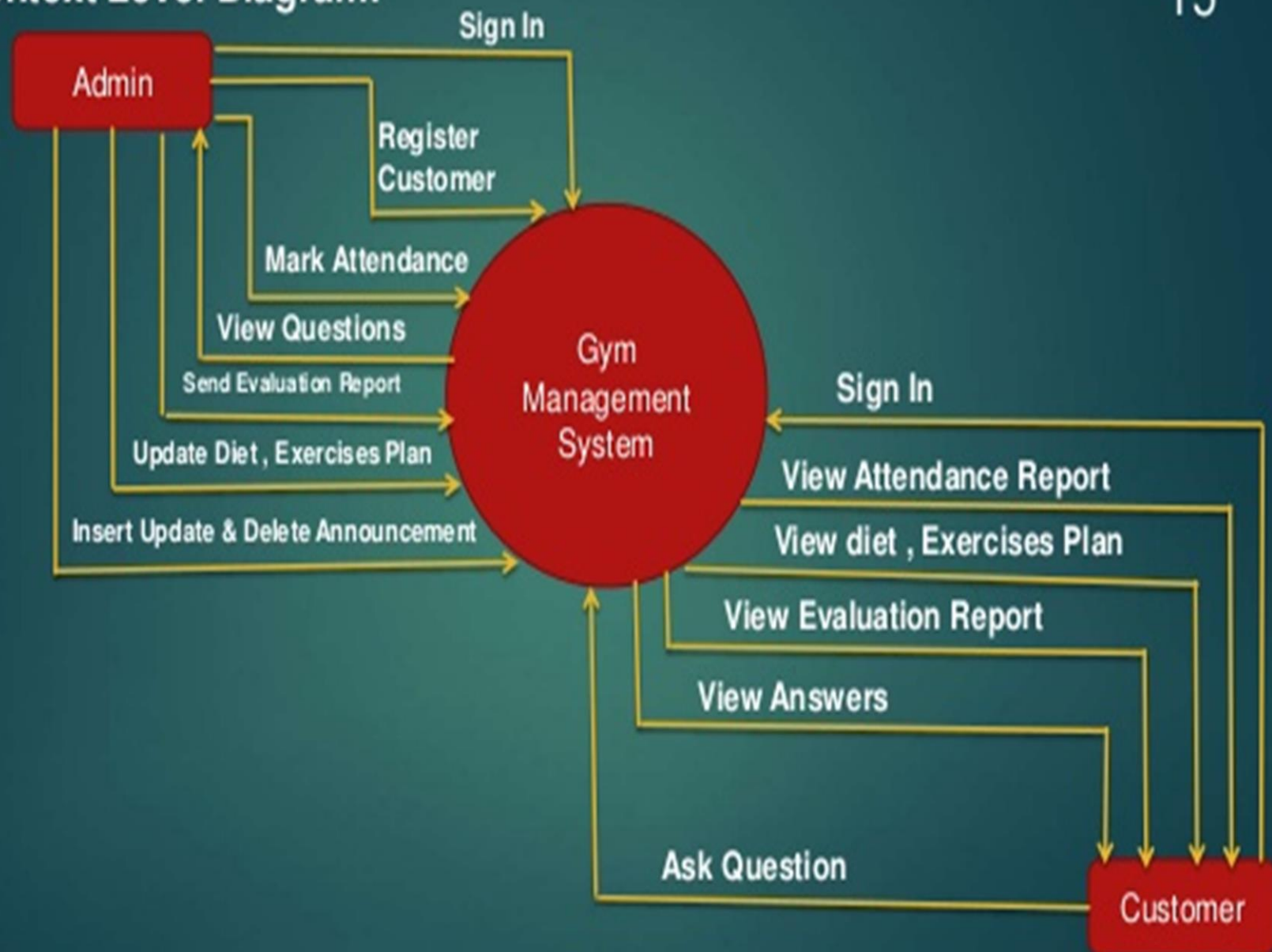- To save cost for eachother.
- User friendly.

Project scope

- The administrator have full fledge right over the system.
- The admin can view and register the customers profile data.
- Customer can view his or her attendance report.
- The customer can get to know the update about their fees if it is due they can pay it in the specified amount of time.
- The customer can now about his or her diet plan and the kind of workout/exercise that they have to do according to the data that they have entered.

Context Level Diagram:

Program:

- In the Previous slide, the program for gym management is done.it is implemented using c++,the above slide basically consist of registeration function,which is of type void.where we accept various attributes related to registration from the trainee,

- Name(string)

- Trainee Gender(char)

- Phone number(string)

- Habitat i.e either veg or non veg(char)

- Height and weight(float)

```cpp
            cout<<"enter height and weight:";
            cin>>height>>weight;
    }

    void attendance()
    {
            cout<<"enter the name:";
            cin>>name;

            cout<<"attendance marked"<<endl;
    }

    void fees()
    {
            cout<<"enter the name:";
            cin>>name;

            cout<<"enter the total fees:";
            cin>>total;

            cout<<"enter the amount payed by the trainee:";
            cin>>amount;

            balance=total-amount;
            if(balance>0)
            {
                cout<<"balance amount to be paid within 4 months";
            }
            else
            {
```

- In the above slide,there is function called attendence which is of type void ,where we accept name from the trainee in order verify whether the trainee has attended the gym session

- On successful entry of name,it prints " attendence marked". i.e trainee attended the session

- The slide also includes fees function of type void ,where we accept details such as name,total fees and amount paid by trainee along with balance amount

- Balance is calculated by subtracting total with amount paid

- If balance is greater than zero then it should be paid within 4 months else payment success

```cpp
        else
        {
            cout<<"payement succesful";
        }
    }
    void dietplan()
    {
        cout<<"enter name:";
        cin>>name;
        cout<<"enter vorn:";
        cin>>vorn;

        if(vorn =='v')
        {
            cout<<"breakfast-1:poha 2:oats and milk 3:brown bread and peanut butter"<<endl;
            cout<<"lunch-1:2 or 3 rotis with green veggies 2:curd"<<endl;
            cout<<"dinner-1:2 or 3 rotis with dal 2:green salad"<<endl;

        }
        else
        {
            cout<<"breakfast-1:hard boiled egg white 2:brown bread"<<endl;
            cout<<"lunch-1:brown rice 2:chicken with rice"<<endl;
            cout<<"dinner-1:steamed or boiled fish 2:raitha"<<endl;
        }
    }

    void exercise()
    {
        cout<<"monday-chest"<<endl;
        cout<<"tuesday-bicep"<<endl;
```

- In the above slide, there is function called diet plan where you accept the name of trainee and his/her habitat and provide the required diet plan depending upon his or her habitat. This function has return type of void.

- The character "v" is used for vegetarians and "n" is used for non-vegetarian

```cpp
            }

            void exercise()
            {
                cout<<"monday-chest"<<endl;
                cout<<"tuesday-bicep"<<endl;
                cout<<"wednesday-triceps"<<endl;
                cout<<"thursday-back"<<endl;
                cout<<"friday-leg and abs"<<endl;
                cout<<"saturday-shoulder"<<endl;

            }
};

int main()
{
    gym g;
    int choice;

    cout<<"GYM MANAGEMENT SYSYTEM"<<endl;
    cout<<"1 registration...."<<endl<<"2 attendance portal..."<<endl<<"3 fee details...."<<endl<<"4 food
    cout<<"5 exercise schedule..."<<endl<<"6 exit...";

    for(;;)
    {
        cout<<"enter the choice";
        cin>>choice;

        switch(choice)
        {
            case 1:cout<<"REGESTRATION DETAILS:"<<endl;
```

- In the above slide,There is exercise function where the trainer provides the list of exercises that has to be done by the trainee on a regular basis. The function is of void typ

- Then there is main function where we accept the information that user wants to kn

EXERCISE

YOUR SLOGAN HERE

```cpp
115    for(;;)
116    {
117        cout<<"enter the choice";
118        cin>>choice;
119
120        switch(choice)
121        {
122            case 1:cout<<"REGESTRATION DETAILS:"<<endl;
123                    g.registration();
124                    break;
125
126            case 2:cout<<"ATTENDANCE PORTAL:"<<endl;
127                    g.attendance();
128                    break;
129
130            case 3:cout<<"FEES DETAILS:"<<endl;
131                    g.fees();
132                    break;
133            case 4:cout<<"FOOD RECOMMENDATION:"<<endl;
134                    g.dietplan();
135                    break;
136
137            case 5:cout<<"EXERCISE SCHEDULE:"<<endl;
138                    g.exercise();
139                    break;
140
141            default:exit(0);
142        }
143    }
144 }
```

- In the above slide,there is switch case which is used inside infinite for loop, where we accept the user choice and perform task depending upon the user choice

- Once user selects anything other than given choice the program exit

■outputs

```
GYM MANAGEMENT SYSYTEM
1 registration....
2 attendance portal...
3 fee details....
4 food recommandation...
5 exercise schedule...
6 exit...enter the choice 1
REGESTRATION DETAILS:
enter the trainee name: raj
enter the trainee gender:m
enter the phone number:89765432
enter veg or nonveg: n
enter height and weight:6  70
enter the choice 2
ATTENDANCE PORTAL:
enter the name:raj
attendance marked
enter the choice 3
FEES DETAILS:
enter the name: raj
enter the total fees: 17000
enter the amount payed by the trainee:17000
payement succesfulenter the choice5
EXERCISE SCHEDULE:
monday-chest
tuesday-bicep
wednesday-triceps
thursday-back
friday-leg and abs
saturday-shoulder
enter the choice 4
```

```
GYM MANAGEMENT SYSYTEM

1 registration....

2 attendance portal...

3 fee details....

4 food recommandation...

5 exercise schedule...

6 exit...enter the choice 4

FOOD RECOMMENDATION:

enter name: raj

enter vorn: n

breakfast-1:hard boiled egg white 2:brown bread

lunch-1:brown rice 2:chicken with rice

dinner-1:steamed or boiled fish 2:raitha

enter the choice
```

```
REGESTRATION DETAILS:
enter the trainee name: poo
enter the trainee gender: f
enter the phone number:  78563219
enter veg or nonveg:v
enter height and weight:5 45
enter the choice 2
ATTENDANCE PORTAL:
enter the name: poo
attendance marked
enter the choice 3
FEES DETAILS:
enter the name: poo
enter the total fees:10000
enter the amount to be payed by the trainee: 9000
balance amount to be paid within 4 monthsenter the choice 4
FOOD RECOMMENDATION:
enter name: poo
enter vorn: v
breakfast-1:poha 2:oats and milk 3:brown bread and peanut butter
lunch-1:2 or 3 rotis with green veggies 2:curd
dinner-1:2 or 3 rotis with dal 2:green salad
enter the choice 5
EXERCISE SCHEDULE:
monday-chest
tuesday-bicep
wednesday-triceps
thursday-back
friday-leg and abs
saturday-shoulder
enter the choice
```

Thank You!