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DEPT OF INFORMATION SCIENCE AND  
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# Object oriented concept project on GYM MANAGEMENT SYSTEM

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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 each other.
- User friendly.





## Project scope

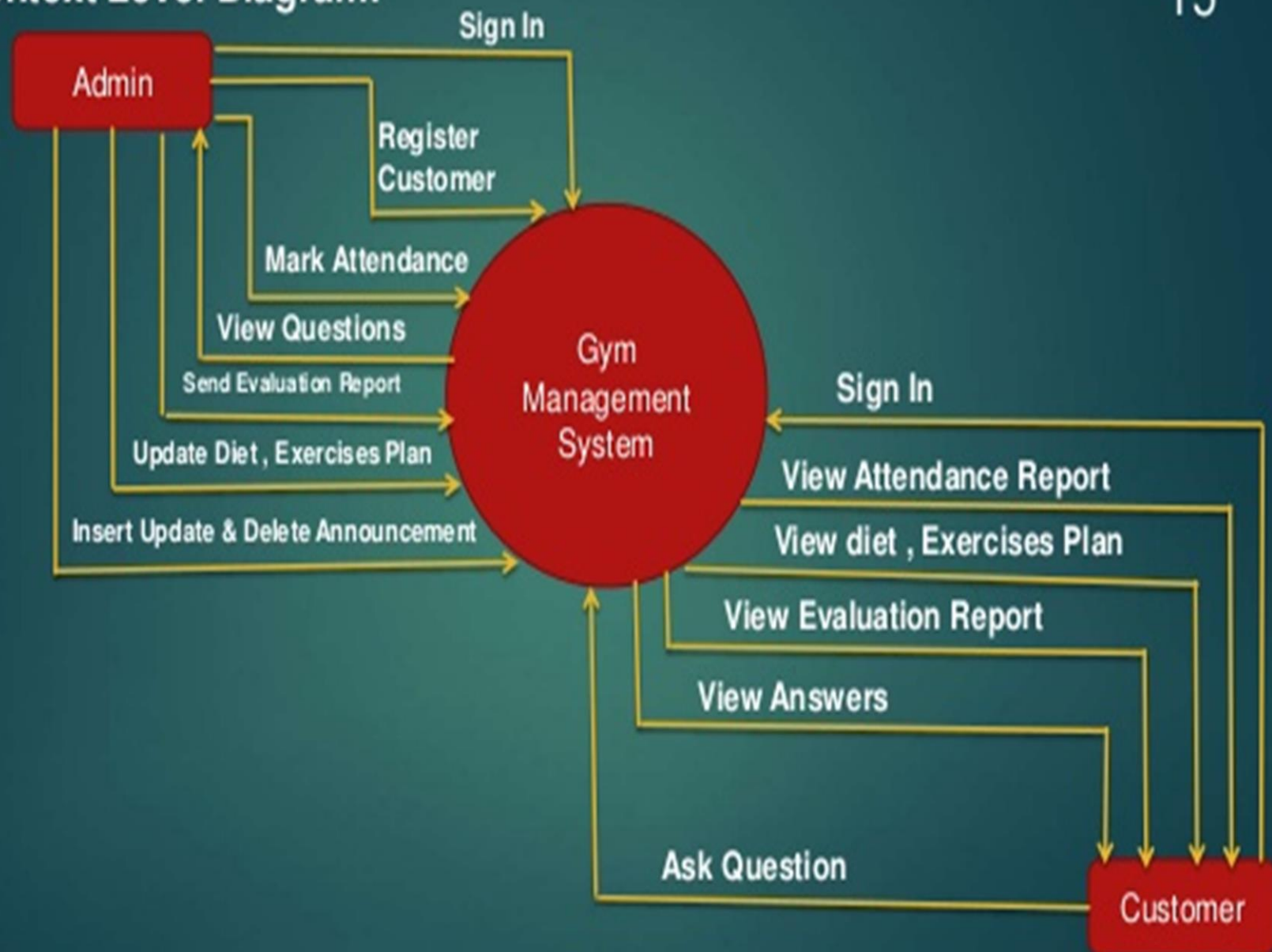
- The administrator have full fledge right over the system.
- The admin can view and register the customers profile data.
- Customer can view his or her attendance report.
- The customer can get to know the update about their fees if it is due they can pay it in the specified amount of time.
- The customer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



# Project Scope

## Context Level Diagram:

15



# Program:

Online C++ Compiler - online ed x

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onlinegdb.com/online\_c++\_compiler

OnlineGDB beta  
online compiler and debugger for c/c++  
code. compile. run. debug. share.  
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main.cpp

Run

Debug

Stop

Share

Save

Beautify

Language C++

8  
9 #include <iostream>  
10  
11 using namespace std;  
12  
13 class gym  
14 {  
15 public: char name[10];  
16 char gender;  
17 char phone[10];  
18 char address[10];  
19 char vorn;  
20 float height,weight;  
21 float total;  
22 float amount;  
23 float balance;  
24  
25 public: void registration()  
26 {  
27 cout<<"enter the trainee name:";  
28 cin>>name;  
29  
30 cout<<"enter the trainee gender:";  
31 cin>>gender;  
32  
33 cout<<"enter the phone number:";  
34 cin>>phone;  
35  
36 cout<<"enter veg or nonveg:";  
37 cin>>vorn;  
38

Windows Taskbar: Type here to search, Edge, File Explorer, Mail, Calendar, Photos, Word, PowerPoint, Chrome, Task View, 08:00 PM 16-04-2020



- In the Previous slide, the program for gym management is done.it is implemented using c++,the above slide basically consist of registration 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)



```
39     cout<<"enter height and weight:";
40     cin>>height>>weight;
41 }
42
43 void attendance()
44 {
45     cout<<"enter the name:";
46     cin>>name;
47
48     cout<<"attendance marked"<<endl;
49 }
50
51 void fees()
52 {
53     cout<<"enter the name:";
54     cin>>name;
55
56     cout<<"enter the total fees:";
57     cin>>total;
58
59     cout<<"enter the amount payed by the trainee:";
60     cin>>amount;
61
62     balance=total-amount;
63     if(balance>0)
64     {
65         cout<<"balance amount to be paid within 4 months";
66     }
67     else
68     {
69         cout<<"amount successful";
```

- In the above slide, there is a function called attendance which is of type void, where we accept name from the trainee in order to verify whether the trainee has attended the gym session.
- On successful entry of name, it prints "attendance 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



```
67     else
68     {
69         cout<<"payement succesful";
70     }
71 }
72 void dietplan()
73 {
74     cout<<"enter name:";
75     cin>>name;
76     cout<<"enter vorn:";
77     cin>>vorn;
78
79     if(vorn == 'v')
80     {
81         cout<<"breakfast-1:poha 2:oats and milk 3:brown bread and peanut butter"<<endl;
82         cout<<"lunch-1:2 or 3 rotis with green veggies 2:curd"<<endl;
83         cout<<"dinner-1:2 or 3 rotis with dal 2:green salad"<<endl;
84     }
85     else
86     {
87         cout<<"breakfast-1:hard boiled egg white 2:brown bread"<<endl;
88         cout<<"lunch-1:brown rice 2:chicken with rice"<<endl;
89         cout<<"dinner-1:steamed or boiled fish 2:raitha"<<endl;
90     }
91 }
92
93
94 void exercise()
95 {
96     cout<<"monday-chest"<<endl;
97     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



```
92 }
93
94 void exercise()
95 {
96     cout<<"monday-chest"<<endl;
97     cout<<"tuesday-bicep"<<endl;
98     cout<<"wednesday-triceps"<<endl;
99     cout<<"thursday-back"<<endl;
100     cout<<"friday-leg and abs"<<endl;
101     cout<<"saturday-shoulder"<<endl;
102 }
103
104 };
105
106 int main()
107 {
108     gym g;
109     int choice;
110
111     cout<<"GYM MANAGEMENT SYSYTEM"<<endl;
112     cout<<"1 registration...."<<endl<<"2 attendance portal..."<<endl<<"3 fee details...."<<endl<<"4 food
113     cout<<"5 exercise schedule..."<<endl<<"6 exit...";
114
115     for(;;)
116     {
117         cout<<"enter the choice";
118         cin>>choice;
119
120         switch(choice)
121         {
122             case 1:cout<<"REGISTRATION 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 type
- Then there is main function where we accept the information that user wants to know



```
115     for(;;)
116     {
117         cout<<"enter the choice";
118         cin>>choice;
119
120         switch(choice)
121         {
122             case 1:cout<<"REGISTRATION 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 a switch case which is used inside an infinite for loop, where we accept the user choice and perform a task depending upon the user choice
- Once the user selects anything other than the given choice, the program exits







- outputs



# GYM MANAGEMENT SYSTEM

- 1 registration....
- 2 attendance portal...
- 3 fee details....
- 4 food recommendation...
- 5 exercise schedule...
- 6 exit...enter the choice 1

## REGISTRATION 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  
payment 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

## REGISTRATION 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

## &lt; 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!