

SAI VIDYA INSTITUTE OF TECHNOLOGY



Workshop on “Object Oriented Programming in C++”

“PROJECT REPORT”

Submitted by

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**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING
2020**

ACKNOWLEDGEMENT:

We would like to express our deep sense of gratitude to SAI VIDYA INSTITUTE OF TECHNOLOGY for providing us an opportunity to do our education.

I express my heartfelt sincere gratitude to Dr Vrinda Shetty , professor and HOD , Department of INFORMATION SCIENCE ENGINEERING ,Sai Vidya Institute of technology ,Bengaluru ,for her valuable suggestion and support.

I express my heartfelt sincere gratitude to professor **Mary M Dsouza** , assistant prof project guide ,Department of INFORMATION SCIENCE ENGINEERING ,Sai Vidya Institute of technology ,Bengaluru for her constant support

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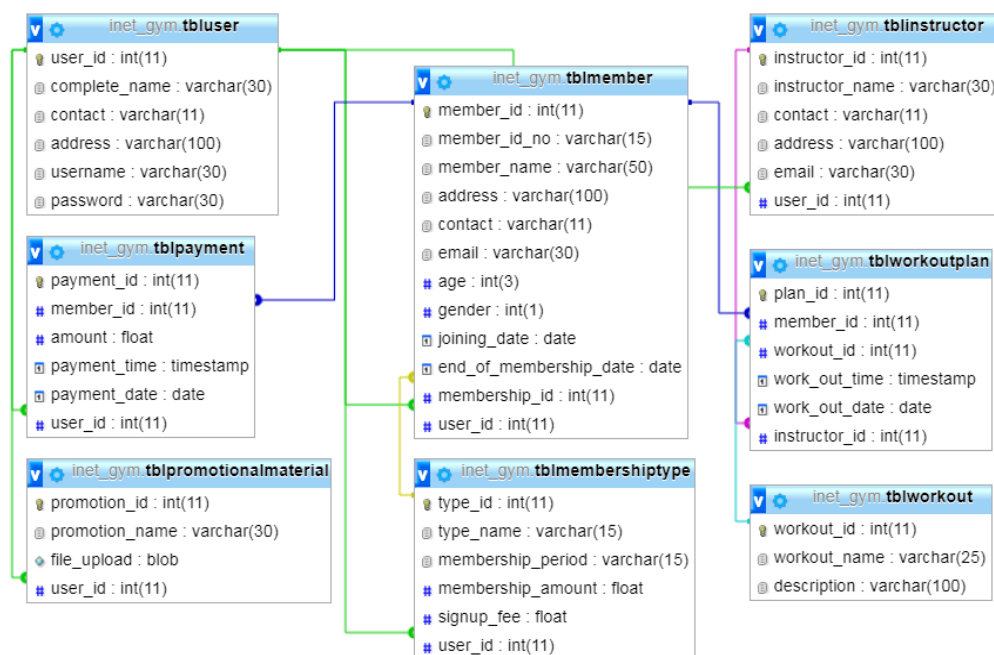
Introduction:

As a part of work shop ,we presented a coding on the topic of GYM MANAGEMENT SYSTEM we would like to thank prof. Mary M Dsouza ,for giving this opportunity to present and enhance our skills and our knowledge regarding the subject .

Brief Description About GYM MANAGEMENT SYSTEM

Gym Management system is an easy way to use gym and health fitness membership and give permit communications between members system and their membership details.

A gym management system is a user-friendly gym and fitness management system. It helps you to manage records of your members and their memberships and allows you to communicate easily with all your members. This software can help you in managing the gyms, clubs and fitness studios of all sizes.



Coding:

```
#include<iostream>
```

```
Using namespace std;
```

```
#include<iostream>
```

```
using namespace std;
```

```
class gym
```

```
{
```

```
    public: char name[10];
```

```
        char gender;
```

```
        char phone[10];
```

```
        char address[10];
```

```
        char vorn;
```

```
        float height,weight;
```

```
        float total;
```

```
        float amount;
```

```
        float balance;
```

```
    public: void registration()
```

```
    {
```

```
        cout<<"enter the trainee name:";
```

```
        cin>>name;
```

```
        cout<<"enter the trainee gender:";
```

```
cin>>gender;
```

```
cout<<"enter the phone number:";
```

```
cin>>phone;
```

```
cout<<"enter veg or nonveg:";
```

```
cin>>vorn;
```

```
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 to be payed by the
trainee:";
cin>>amount;

balance=total-amount;
if(balance>0)
{
    cout<<"balance amount to be paid within 4
months";
}
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;
        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
recommandation..."<<endl;;
    cout<<"5 exercise schedule..."<<endl<<"6 exit...";

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

        switch(choice)

```



```
{  
    case 1:cout<<"REGISTRATION DETAILS:"<<endl;  
        g.registration();  
        break;  
  
    case 2:cout<<"ATTENDANCE PORTAL:"<<endl;  
        g.attendance();  
        break;  
  
    case 3:cout<<"FEES DETAILS:"<<endl;  
        g.fees();  
        break;  
  
    case 4:cout<<"FOOD RECOMMENDATION:"<<endl;  
        g.dietplan();  
        break;  
  
    case 5:cout<<"EXERCISE SCHEDULE:"<<endl;  
        g.exercise();  
        break;  
  
    default:exit(0);  
}  
}  
}
```

Output Screenshot :

The screenshot shows the OnlineGDB interface with a C++ program running. The output in the terminal window is as follows:

```
GYM MANAGEMENT SYSTEM
1 registration...
2 attendance portal...
3 fee details...
4 food recommendation...
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
```

The screenshot shows the OnlineGDB interface with a C++ program running. The output in the terminal window is as follows:

```
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
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
```

```
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
```

POWER POINT PRESENTATION

Slide 1



Sai Vidya Institute of technology
Dept of Information science and Engineering

Object oriented concept project
on
GYM MANAGEMENT SYSTEM

Done by:
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Slide 2

Index

- Introduction to project
- Project Goal
- Project scope
- Context level diagram of project
- Code
- Output
- conclusion



GYM MANAGEMENT

Slide 3



Gym Management System



Introduction

Slide 4

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.

Slide 5

• 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.



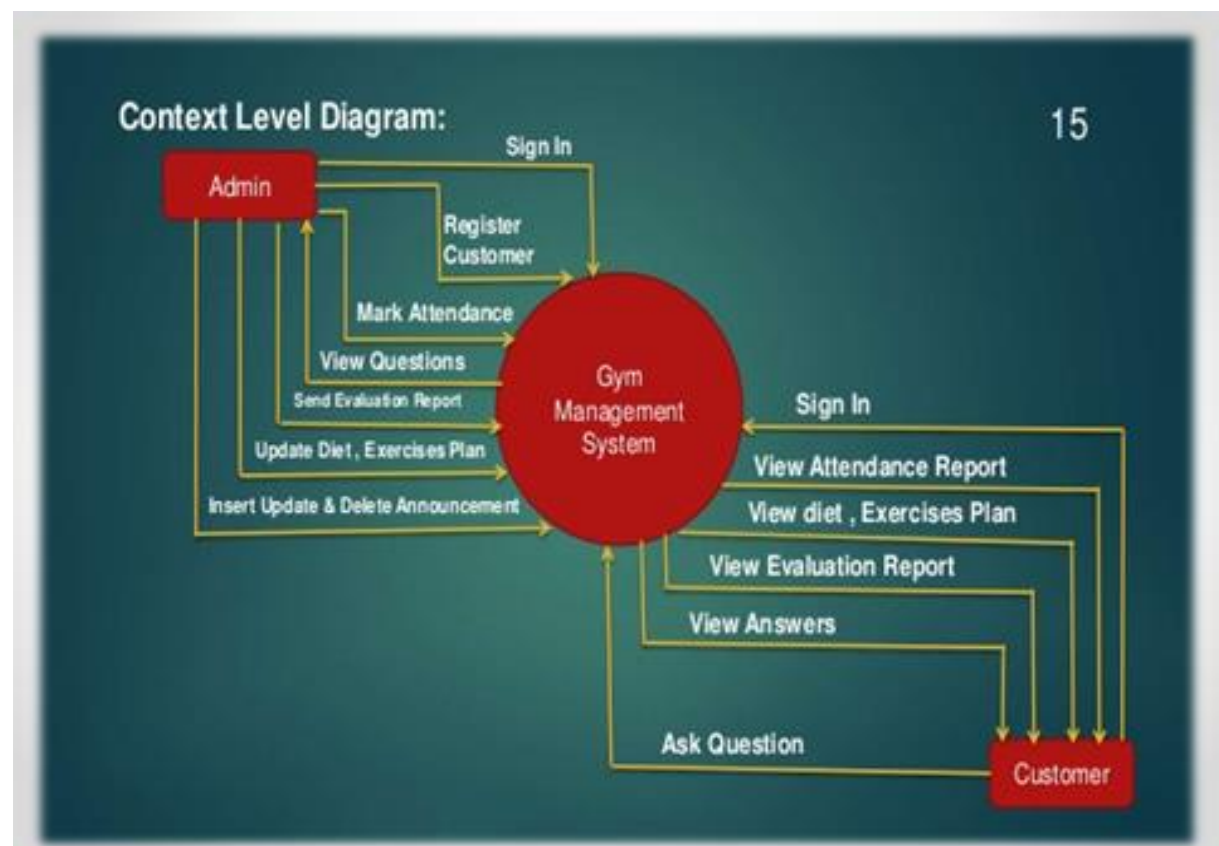
Slide 6

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

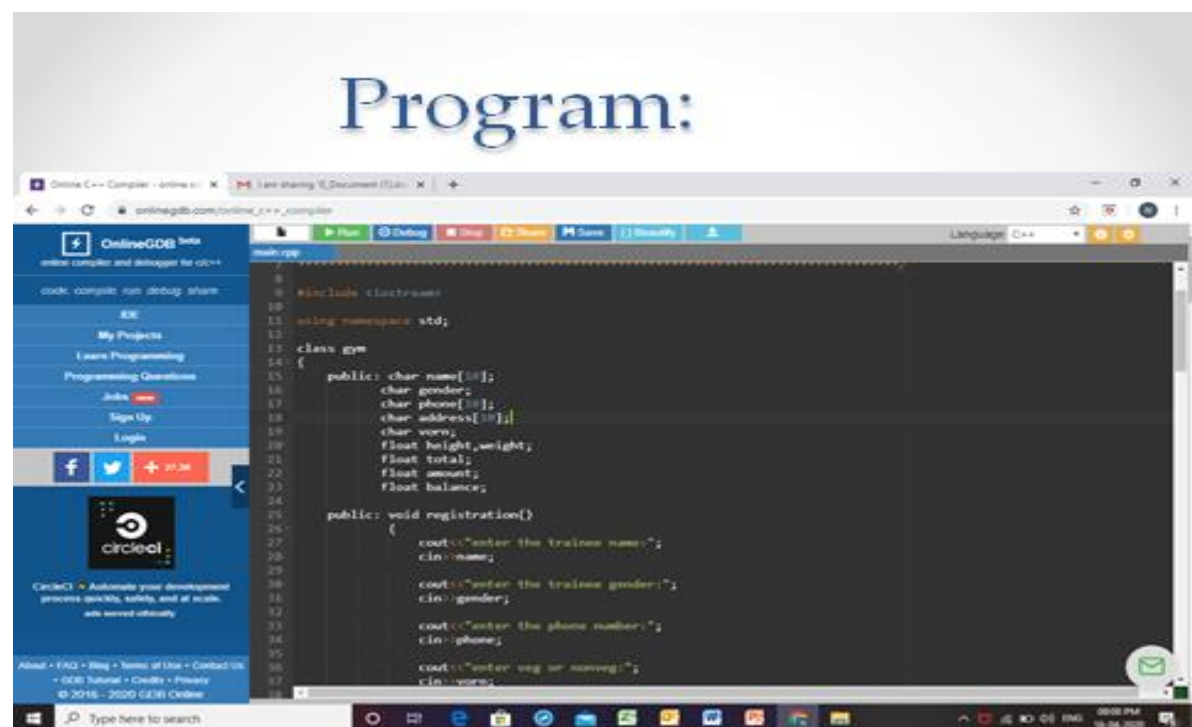


Slide 7



Slide 8

Program:



The screenshot shows a web browser window with the URL `onlinegdb.com/online_c++_compiler`. The page displays a C++ program for gym management. The code defines a `gym` class with attributes for name, gender, phone, address, view, height, weight, total, amount, and balance. It includes a `registration()` function that prompts the user to enter these details. The left sidebar contains navigation links like 'OnlineGDB Info', 'My Projects', and 'Learn Programming'. The bottom status bar shows the time as 10:08 PM on 16-04-2020.

```
1 #include <iostream>
2
3 using namespace std;
4
5 class gym
6 {
7     public: char name[50];
8           char gender;
9           char phone[50];
10          char address[50];
11          char view;
12          float height,weight;
13          float total;
14          float amount;
15          float balance;
16
17     public: void registration()
18     {
19         cout<<"enter the trainee name:";
20         cin>>name;
21
22         cout<<"enter the trainee gender:";
23         cin>>gender;
24
25         cout<<"enter the phone number:";
26         cin>>phone;
27
28         cout<<"enter veg or nonveg:";
29         cin>>view;
30     }
```

Slide 9

- 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)



Slide 10

```
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 paid 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 paid is sufficient";
70      }
71  }
```

Slide 11

- 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



Slide 12

- 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



Slide 13

```
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     void exercise()
94     {
95         cout<<"monday-chest"<<endl;
96         cout<<"tuesday-bicep"<<endl;
```

Slide 14

- 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



Slide 15

```
93
94
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122

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 SYSTEM"<<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<<"REGISTRATION DETAILS:"<<endl;
```

Slide 16

- 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 kn



Slide 17

```
main.cpp
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 }
```

Slide 18

- 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



Slide 19

- outputs



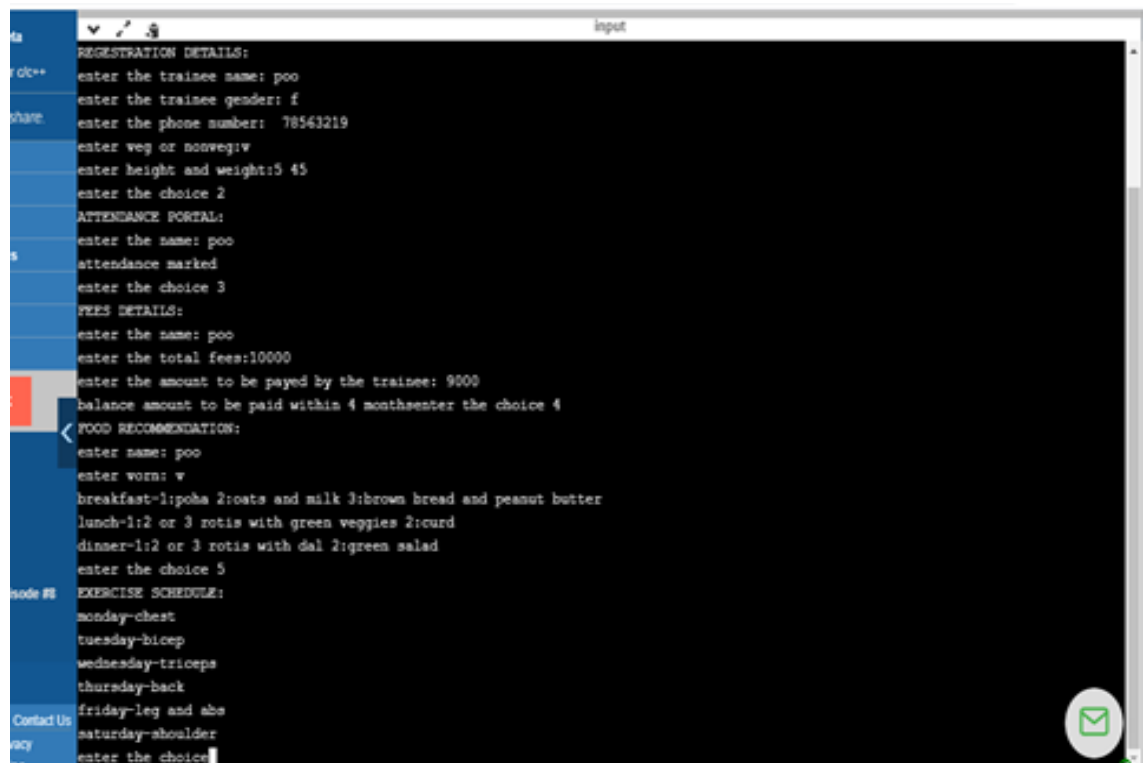
Slide 20

```
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
```

Slide 21

```
GYM MANAGEMENT SYSTEM
1 registration....
2 attendance portal...
3 fee details....
4 food recommendation...
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
```


Slide 22



The screenshot shows a web application interface with a dark background and a light blue sidebar on the left. The sidebar contains a list of menu items: Home, About, Contact Us, Privacy Policy, and a search icon. The main content area is titled "input" and displays a registration form with the following sections:

- 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 paid by the trainee: 9000
 - balance amount to be paid within 4 months enter the choice 4
- FOOD RECOMMENDATION:**
 - enter name: poo
 - enter vorn: v
 - breakfast-1:pooha 2:roats 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

A green chat icon is visible in the bottom right corner of the main content area.

Slide 23



Conclusion :

With this the presentation comes to end .we would like to thank Prof.Mary M Dsouza for giving this opportunity .

We would also thank all our classmates for patiently listening to us and supporting us in the successful completion of our presentation .THANK YOU.