SAI VIDYA INSTITUTE OF TECHNOLOGY

Workshop on "Object Oriented Programming in C++"

"PROJECT REPORT"

Submitted by

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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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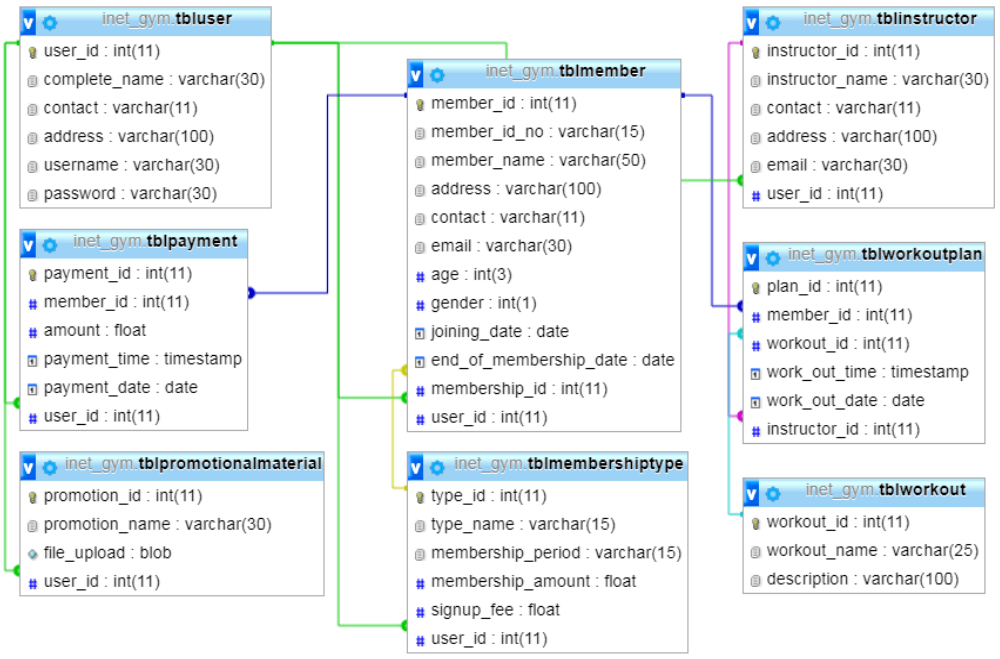
Introduction:

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;
```

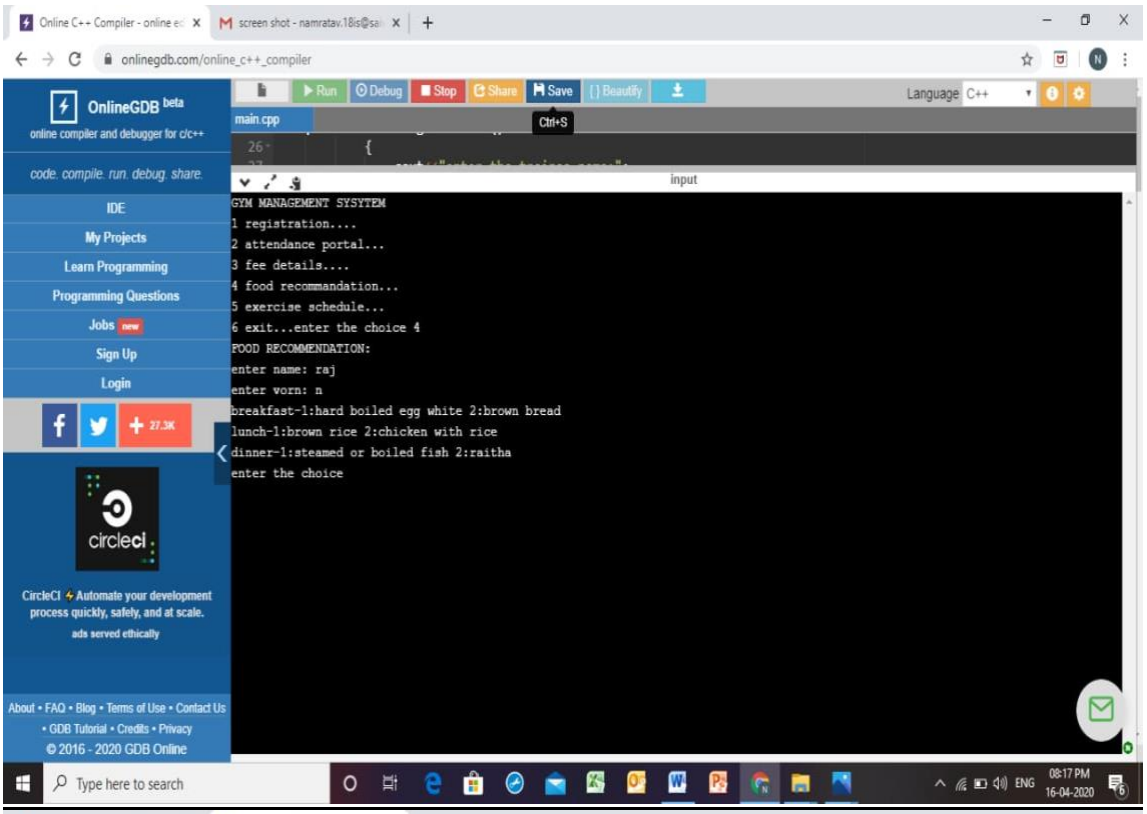
```
            cout<<"enter the total fees:";
            cin>>total;

            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;
```

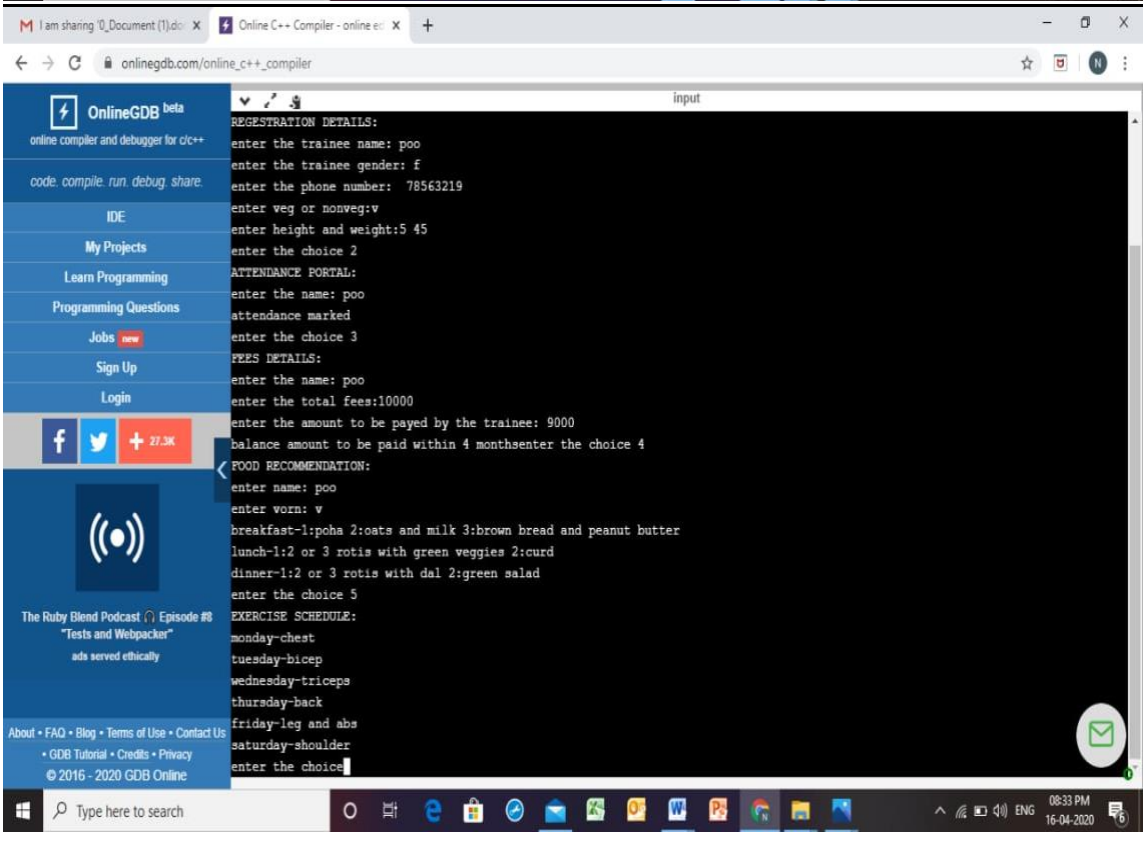
```
            if(vorn =='v')
            {
               cout<<"breakfast-1:poha 2:oats and milk 3:brown
bread and peanut butter"<<endl;
               cout<<"lunch-1:2 or 3 rotis with green veggies
2:curd"<<endl;
               cout<<"dinner-1:2 or 3 rotis with dal 2:green
salad"<<endl;

            }
            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;
```

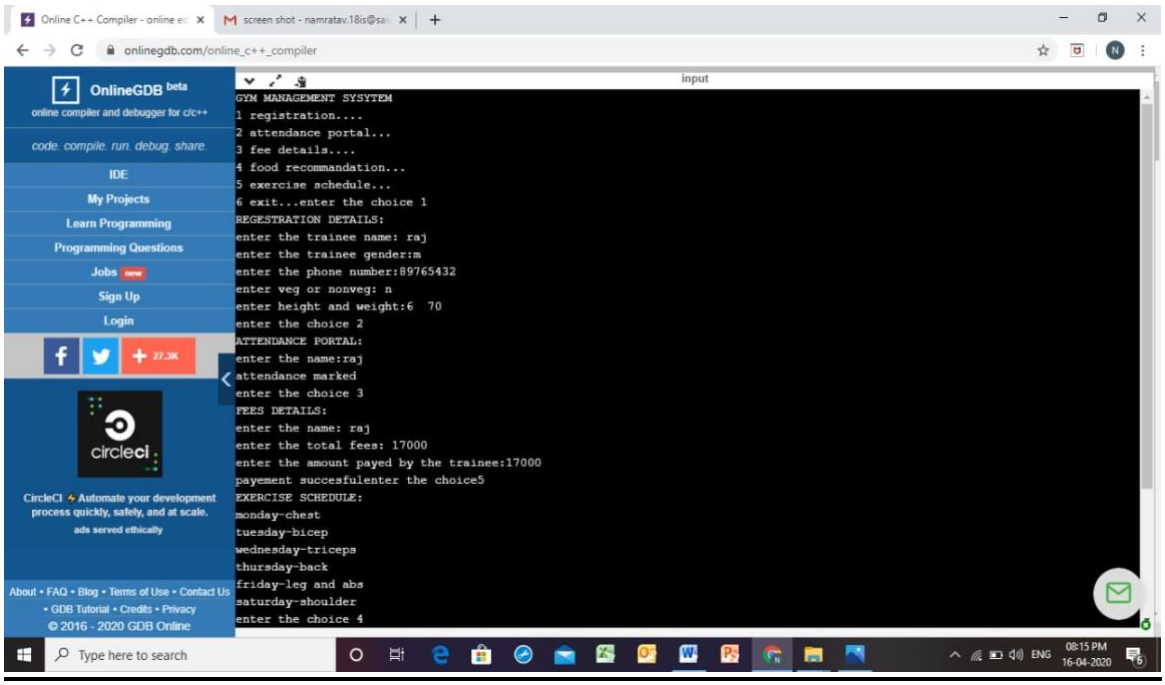
```
            cout<<"tuesday-bicep"<<endl;
            cout<<"wednesday-triceps"<<endl;
            cout<<"thursday-back"<<endl;
            cout<<"friday-leg and abs"<<endl;
            cout<<"saturday-shoulder"<<endl;
        }
};

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<<"REGESTRATION 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 :







POWER POINT PRESENTATION

Slide 1

Slide 2

Slide 3

Slide 4

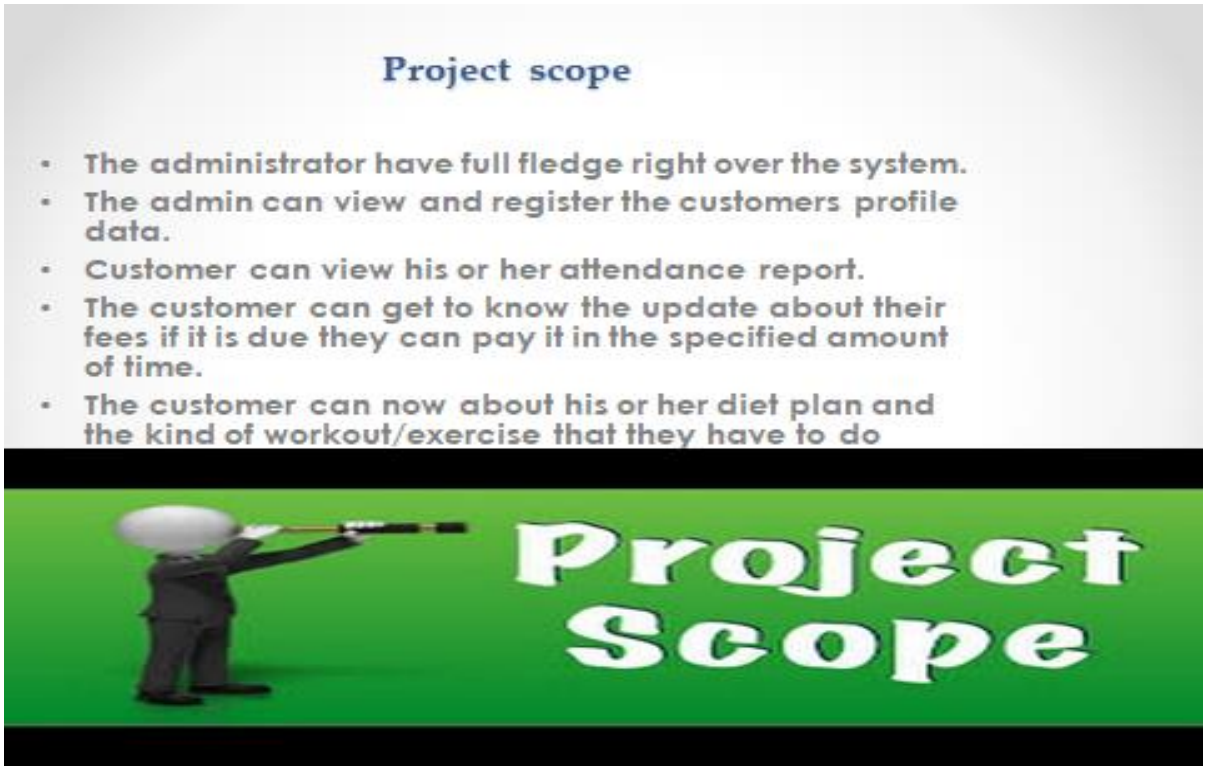
INTRODUCTION

- 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.

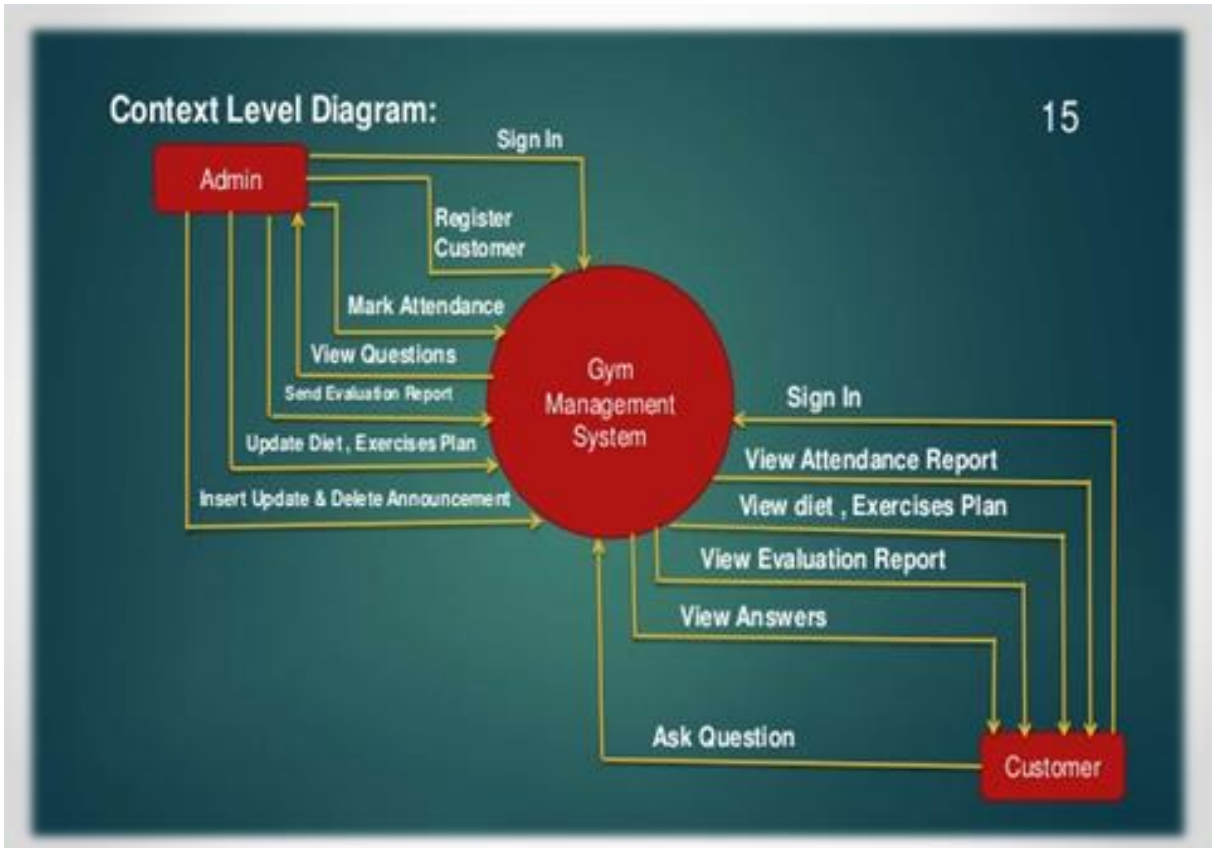
Slide 5

- 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



Slide 7



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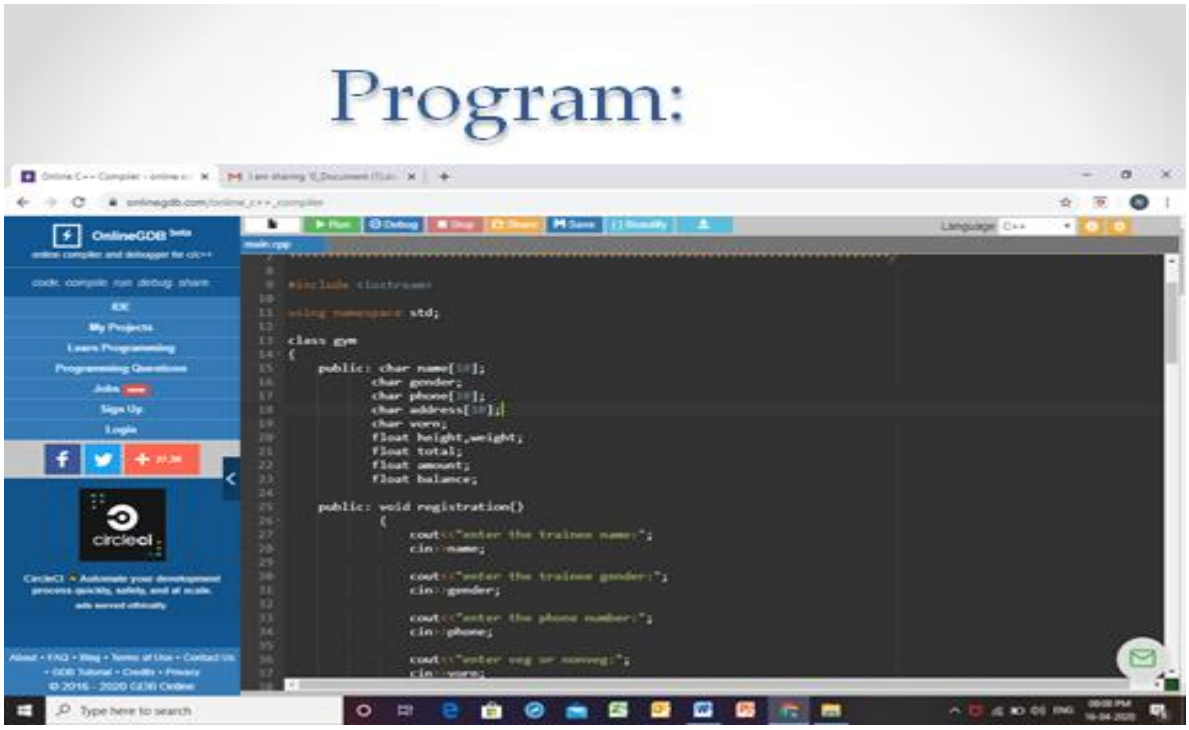


Slide 9

- 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)

Slide 10

```
        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
        {
```

Slide 11

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

```
        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;
```

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              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<<"REGESTRATION DETAILS:"<<endl;
```

Slide 16

Slide 17

```
main.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 }
```

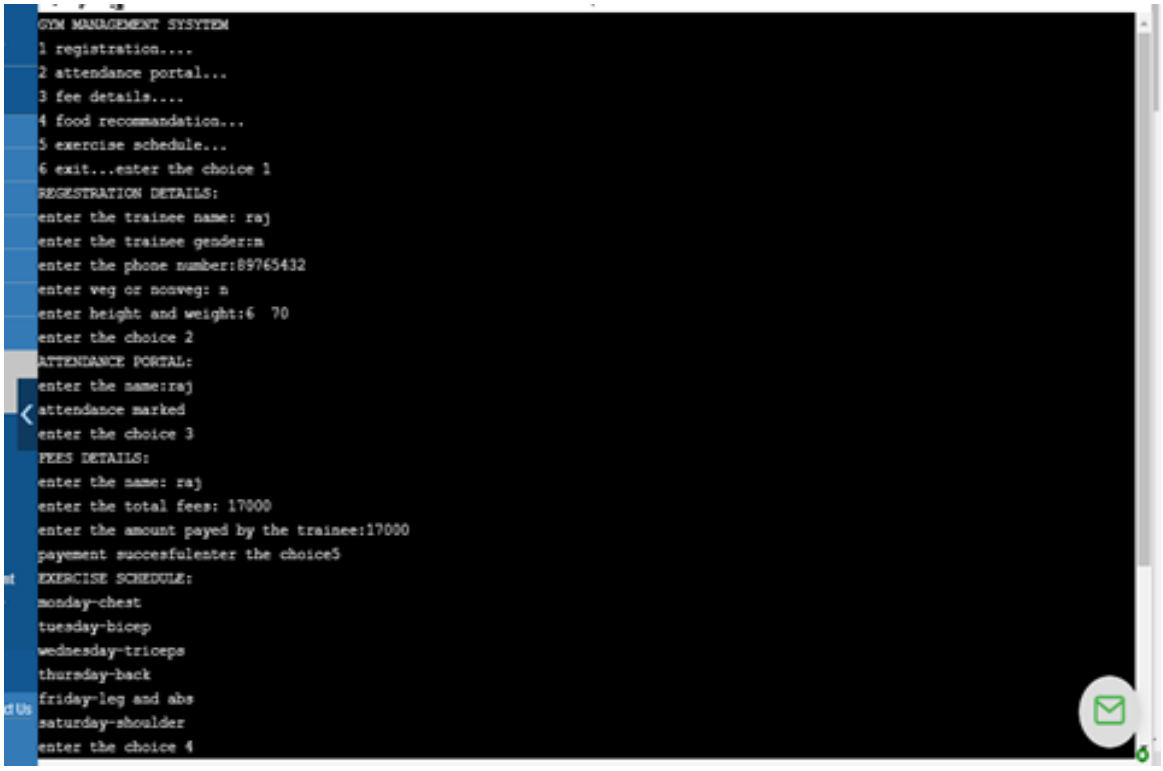
Slide 18

- 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

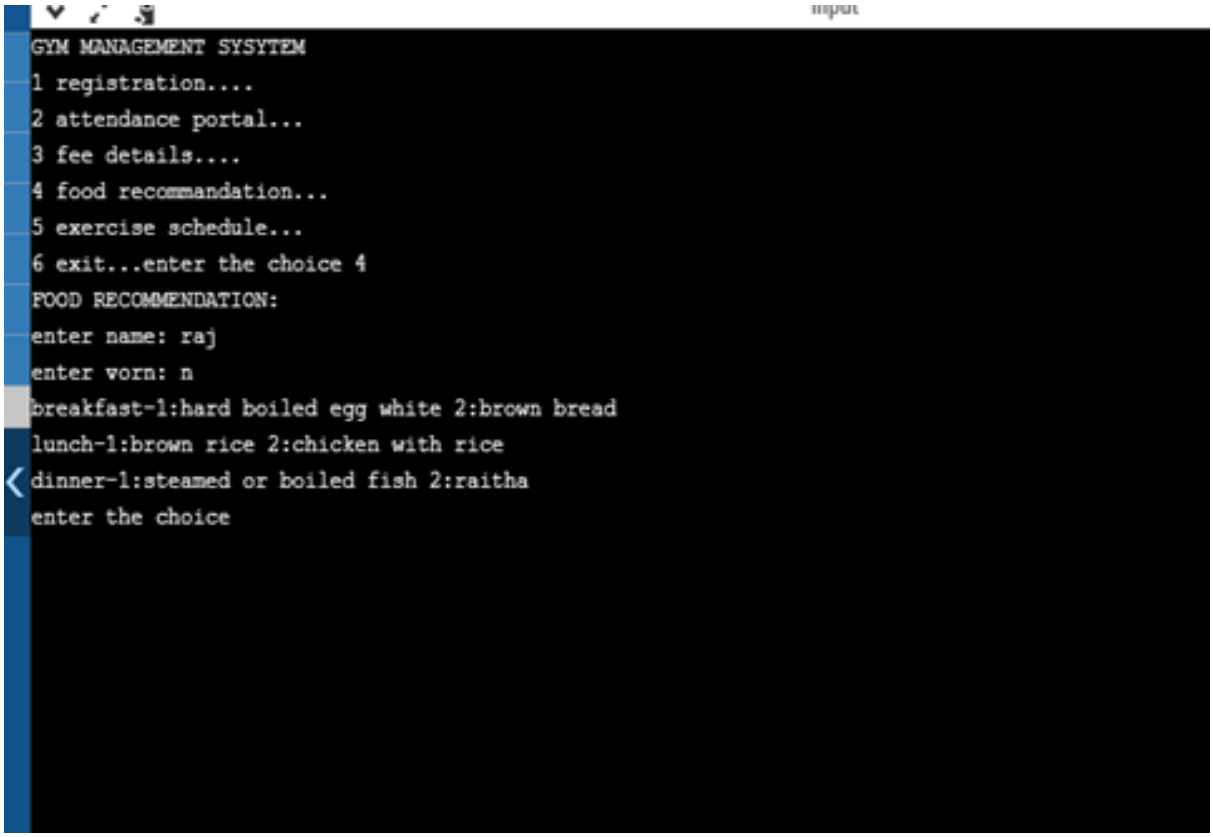
Slide 19

- outputs

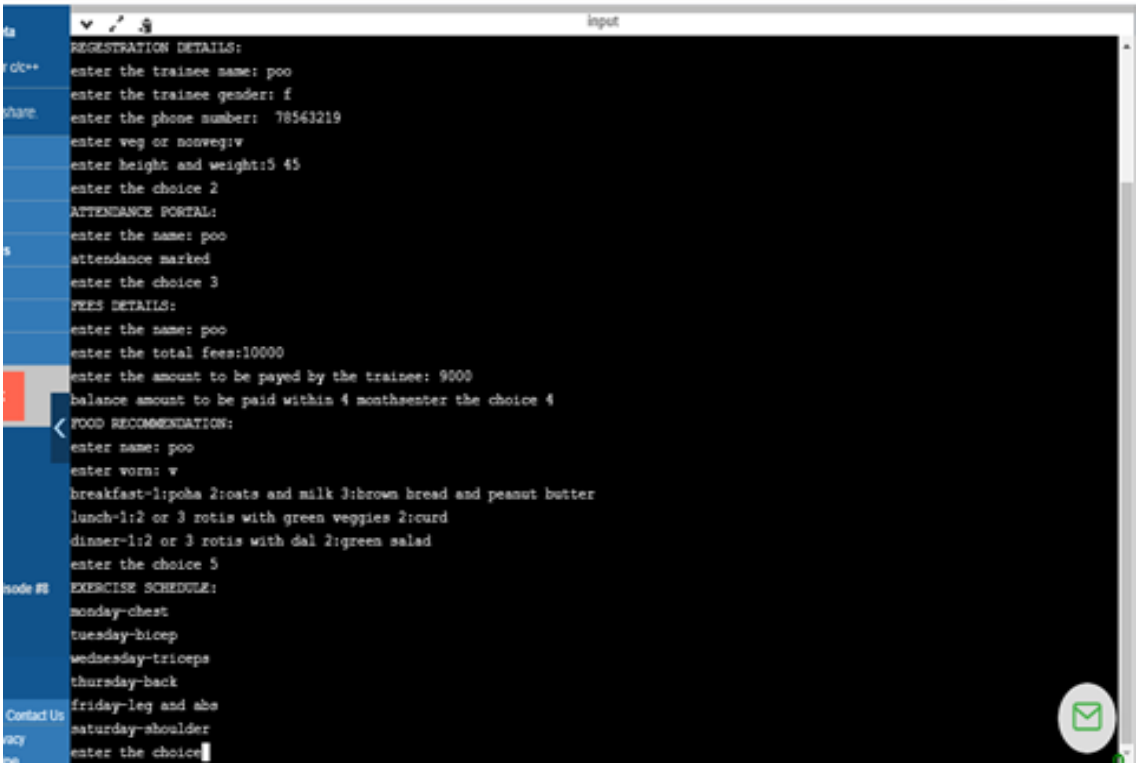
Slide 20



Slide 21



Slide 22



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.