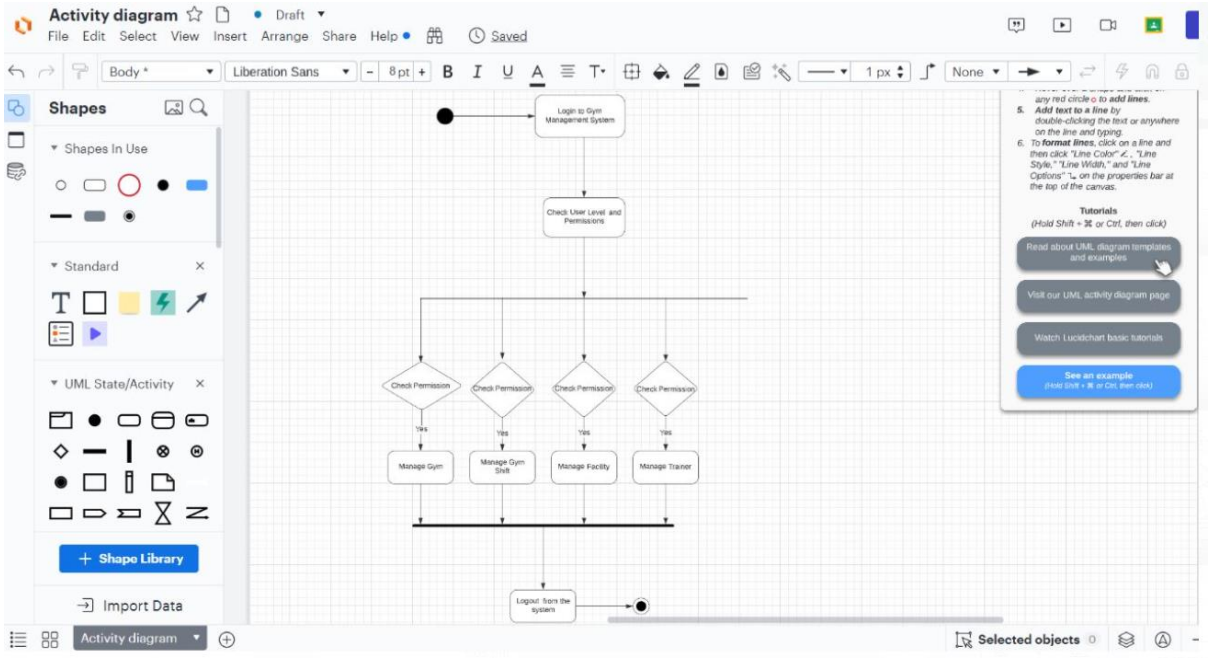
Name – Tejas Raut

Class – TY IT B
PRN – 22010583

Roll Number - 332048

Assignment 1

Activity Diagram :



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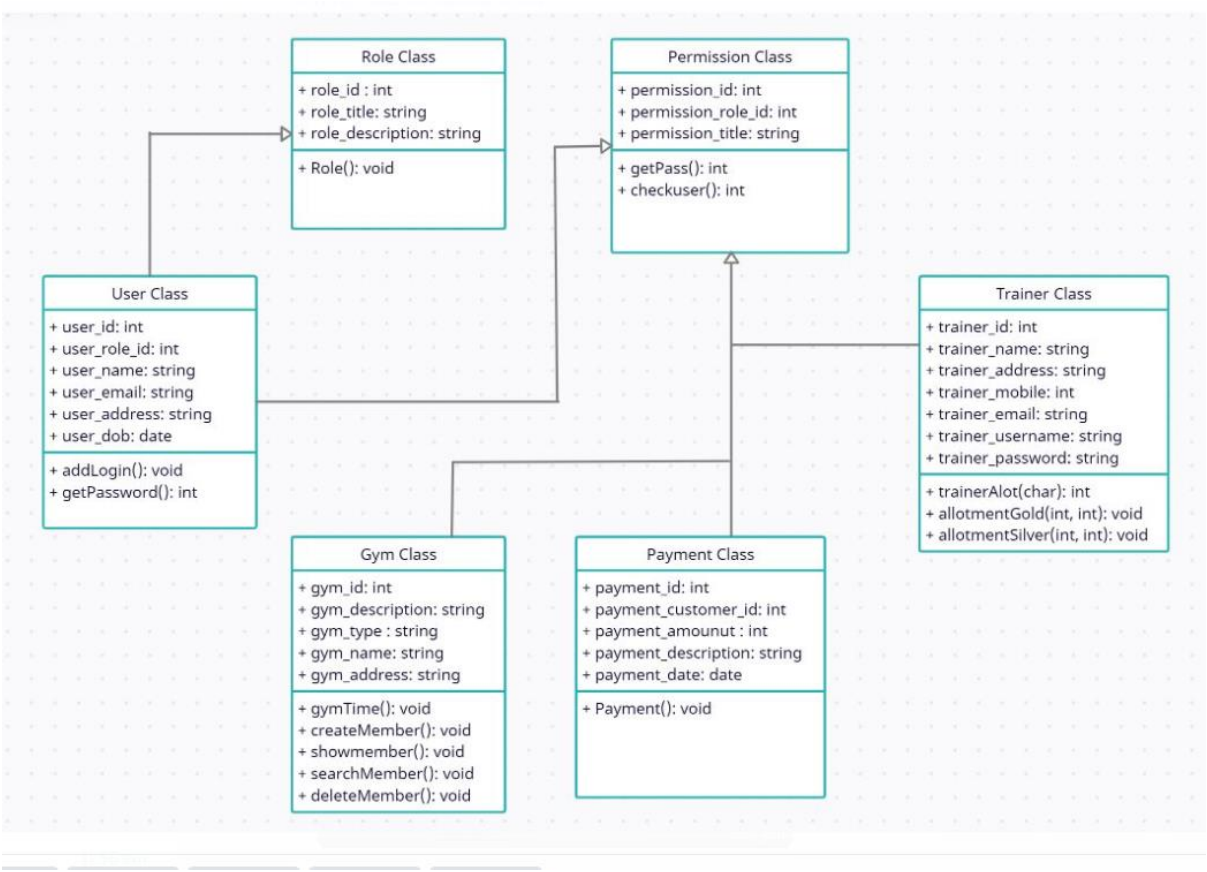
Assignment 2

Class Diagram :



CODE:

Class

```
#include<fstream>
#include<cstring>
#include<iomanip>
#include<iostream>
#include<cstring>
#include<cstdlib>
#include<stdlib.h>
```

```
using namespace std;
class alogin
{
    string admin;
    public:
    int adlogin()
    {
        cout<<"enter the admin code"<<endl;
        cin>>admin;
        if(admin=="admin")
        {
             int p=getadpassword();
             if (p==1)
             {
                cout<<"login succesful"<<endl;
                return 1;
             }
        }
        else{
            cout<<"user name not found"<<endl;
            adlogin();
            cout<<"login failed"<<endl;
            return 0;
        }
        return -1;
    }
    int getadpassword();
};


int alogin::getadpassword()
{
    string pw;
    cout<<"enter the password"<<endl;
    cin>>pw;
    if(pw=="learnprogramo")
    {
        cout<<"WELCOME!!"<<endl;
        return 1;
    }
    else{
        cout<<"entered password is incorrect"<<endl;
        getadpassword();
        return 0;
    }
}
class user{

 public : int m ;
```

```
 void fnuser();
} ;
void payment() ;
class member
    {
        int member_number,j;
        char mem_name[50], classs[50],timings[50];
        float fee;

    long int contact;
        public:
     void time_slots()
       {
            int k;
            cout<<"please select your preferred timings\n press 1 for:
morining 6-7\n press 2 for: morning 7-8\npress 3 for:morning 8-9\n";
            cout<<" press 4 for: evening 4-5\npress 5 for:evening 5-6\npress 6
for:evening 6-7\n";
            cin>>k;
            switch(k)
            {
                case 1:strcpy(timings,"6AM-7AM");break;
                case 2:strcpy(timings,"7AM-8AM");break;
                case 3:strcpy(timings,"8AM-9AM");break;
                case 4:strcpy(timings,"4PM-5PM");break;
                case 5:strcpy(timings,"5PM-6PM");break;
                case 6:strcpy(timings,"6PM-7PM");break;
            }
}
        void create_mem()
        {   int k,l,j;
            trainer_allotment ta ;
            cout<<endl<<"Please Enter The member Number: ";
            cin>>member_number;
            cout<<endl<<"Please Enter The Name of The member: ";
            getchar();
            cin.getline(mem_name ,50);
            cout<<endl<<"Please Enter The contact number: ";
            cin>>contact;
            cout<<"1.gold class\n 2.silver class\n";
        cout<<"enter the choice\n";
        cin>>k;
        switch (k)
        {
            case 1:{
                strcpy(classs,"gold");
                fee=2500;
                cout<<"your monthly fee would be: "<<fee<<endl;
```

```
                l = ta.trainee_allotment(classs);
                if(l ==1)
                {

                    payment();
                }
                }
                break;
            case 2:{
                strcpy(classs,"silver");
                fee=2000;
                cout<<"your monthly fee would be: "<<fee<<endl;
                l=ta.trainee_allotment(classs);
                if(l == 1)
                {
                    payment() ;
                }
                }
                break;
        }
        time_slots();
        }
        void show_mem()
        {
            cout<<endl<<"member code: "<<member_number;
            cout<<endl<<"Name: "<<mem_name;
            cout<<endl<<"category: "<<classs;
            cout<<endl<<"fee: "<<fee;
            cout<<endl<<"contact: "<<contact;
            cout<<endl<<"timings: "<<timings<<endl;
        }

    };

    fstream fp;
    member m1;

    void fnmanage()
    {
        for(;;)
        {
        system("CLS");
        int option;
        cout<<"\t*********************************************";
        cout<<"\n\tPress 1 to CREATE MEMBER";
        cout<<"\n\tPress 2 to DISPLAY ALL RECORDS";
        cout<<"\n\tPress 3 to SEARCH FOR A PARTICULAR RECORD ";
        cout<<"\n\tPress 4 to EDIT MEMBER DETAILS";
```

```
        cout<<"\n\tPress 5 to DELETE MEMBER";
        cout<<"\n\tPress 6 to GO BACK TO MAIN MENU";
        cout<<"\n\t****************************************";
        cout<<"\n\n\tOption: ";
        cin>>option;
        switch(option)
        {
            case 1: system("CLS");
                    save_member();
                    break;

            case 2: show_all();
                    break;

            case 3:
                    int num;
                system("CLS");
                    cout<<"\n\n\tPlease Enter The member Number: ";
                    cin>>num;
                    display_record(num);
                    break;

            case 4: edit_member();
                break;

            case 5: delete_member();
                    break;

            case 6: system("CLS");
                    break;

            default:fnmanage();
            }
        }
    }

void user::fnuser()
{
    for(;;){
//  int m;
    cout<<"1.join gym\n2.quit gym\n3.edit your profile\n4.make payment\n";
    cout<<endl<<"enter your choice"<<endl;
    cin>>m;
    switch(m)
    {
        case 1:system("CLS");
                    save_member();
                    break;
```

```
            case 2:delete_member();
                    break;
            //case 3:fitness();
            //  break;
            case 3:edit_member();
                   break;
            // case 4 :payment() ;
            //        break ;

    }
}

}

int main()
{
        int i,k;
        string name,code;
        cout<<"\n\t\t*********Gym Management System Project in
C++*********"<<endl;

        role r ;
           i =  r.Role() ;
            if(i==1){

                    user u ;
                    u.fnuser();
                    }
            if(i==2){

                    alogin ad;
                    k=ad.adlogin();
                    if(k==1)
                    {
                        fnmanage();
                    }
                    else
                    {
                        cout<<"you cannot access manageral details!";
                    }
                    }
        return 0;
}
```

Output :

```
Gym Management System Project in C++

SELECT MODE
1.User
2.Admin
2

you're in admin mode
enter the admin code
admin
enter the password
learnprogramo
```


```
Gym Management System Project in C++

SELECT MODE
1.User
2.Admin
2

you're in admin mode
enter the admin code
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enter the password
learnprogramo
```

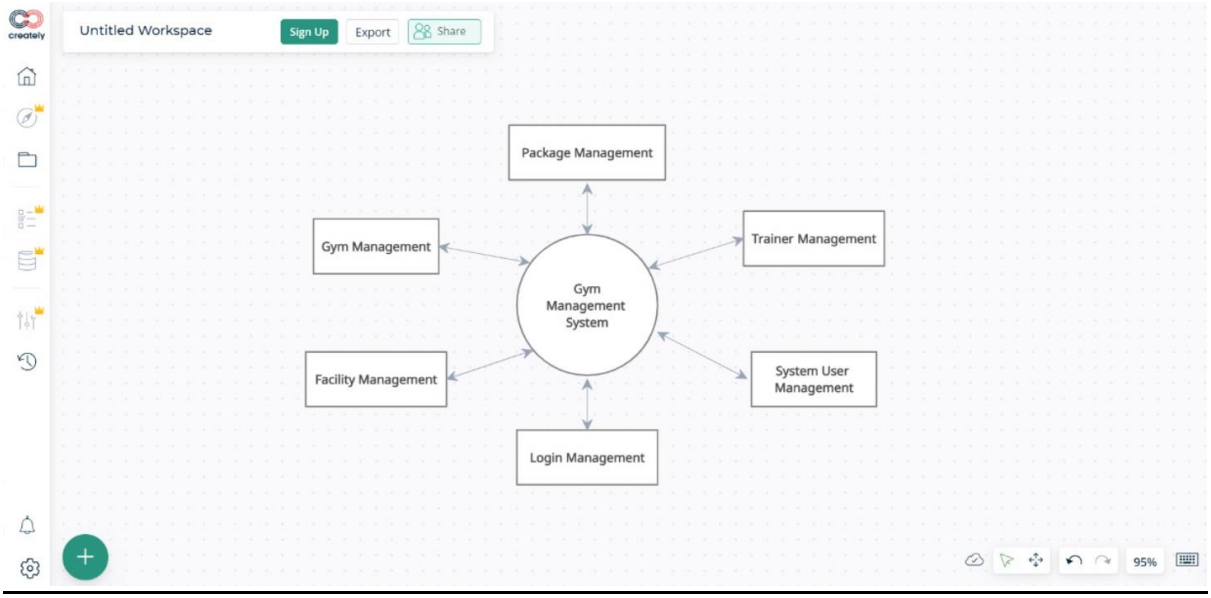
****
Press 1 to CREATE MEMBER
Press 2 to DISPLAY ALL RECORDS
Press 3 to SEARCH FOR A PARTICULAR RECORD
Press 4 to EDIT MEMBER DETAILS
Press 5 to DELETE MEMBER
Press 6 to GO BACK TO MAIN MENU
****
Option:

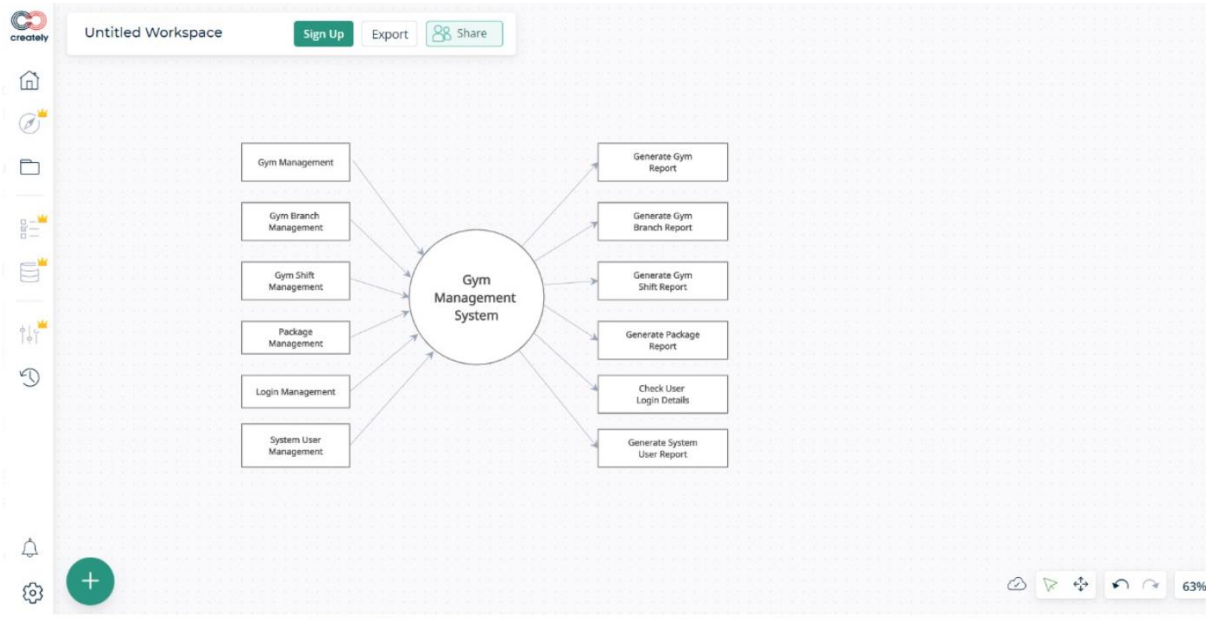
Name – Tejas Raut

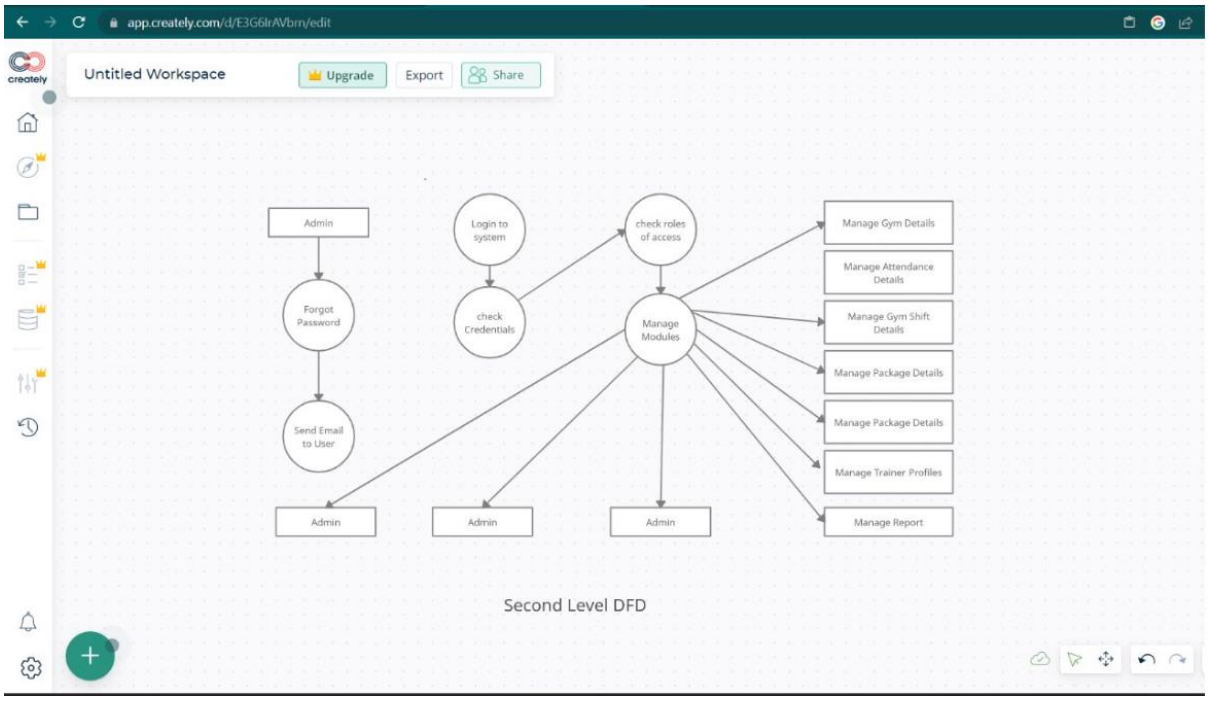
Class – TY IT B
PRN – 22010583

Roll Number - 332048

Assignment 3






app.creately.com/d/E3G6IrAVbrn/edit
Untitled Workspace
Upgrade
Export
Share
Admin
Forgot Password
Send Email to User
Login to system
check Credentials
check roles of access
Manage Modules
Admin
Admin
Admin
Manage Gym Details
Manage Attendance Details
Manage Gym Shift Details
Manage Package Details
Manage Package Details
Manage Trainer Profiles
Manage Report
Second Level DFD

Code:

Class

```
#include<fstream>
#include<cstring>
#include<iomanip>
#include<iostream>
#include<cstring>
#include<cstdlib>
#include<stdlib.h>
using namespace std;
class alogin
{
    string admin;
    public:
    int adlogin()
    {
        cout<<"enter the admin code"<<endl;
        cin>>admin;
        if(admin=="admin")
        {
             int p=getadpassword();
             if (p==1)
             {
                cout<<"login succesful"<<endl;
                return 1;
             }
        }
        else{
            cout<<"user name not found"<<endl;
            adlogin();
            cout<<"login failed"<<endl;
            return 0;
        }
        return -1;
    }
    int getadpassword();
};


int alogin::getadpassword()
{
    string pw;
    cout<<"enter the password"<<endl;
    cin>>pw;
    if(pw=="learnprogramo")
    {
        cout<<"WELCOME!!"<<endl;
```

```
        return 1;
    }
    else{
        cout<<"entered password is incorrect"<<endl;
        getadpassword();
        return 0;
    }
}
class user{

 public : int m ;
 void fnuser();
} ;
void payment() ;
class member
    {
        int member_number,j;
        char mem_name[50], classs[50],timings[50];
        float fee;

    long int contact;
        public:
     void time_slots()
       {
            int k;
            cout<<"please select your preferred timings\n press 1 for:
morining 6-7\n press 2 for: morning 7-8\npress 3 for:morning 8-9\n";
            cout<<" press 4 for: evening 4-5\npress 5 for:evening 5-6\npress 6
for:evening 6-7\n";
            cin>>k;
            switch(k)
            {
                case 1:strcpy(timings,"6AM-7AM");break;
                case 2:strcpy(timings,"7AM-8AM");break;
                case 3:strcpy(timings,"8AM-9AM");break;
                case 4:strcpy(timings,"4PM-5PM");break;
                case 5:strcpy(timings,"5PM-6PM");break;
                case 6:strcpy(timings,"6PM-7PM");break;
            }
}
        void create_mem()
        {   int k,l,j;
            trainer_allotment ta ;
            cout<<endl<<"Please Enter The member Number: ";
            cin>>member_number;
            cout<<endl<<"Please Enter The Name of The member: ";
            getchar();
            cin.getline(mem_name ,50);
```

```
        cout<<endl<<"Please Enter The contact number: ";
        cin>>contact;
        cout<<"1.gold class\n 2.silver class\n";
    cout<<"enter the choice\n";
    cin>>k;
    switch (k)
    {
        case 1:{
            strcpy(classs,"gold");
            fee=2500;
            cout<<"your monthly fee would be: "<<fee<<endl;
            l = ta.trainee_allotment(classs);
            if(l ==1)
            {

                payment();
            }
            }
            break;
        case 2:{
            strcpy(classs,"silver");
            fee=2000;
            cout<<"your monthly fee would be: "<<fee<<endl;
            l=ta.trainee_allotment(classs);
            if(l == 1)
            {
                payment() ;
            }
            }
            break;
    }
    time_slots();
    }
    void show_mem()
    {
        cout<<endl<<"member code: "<<member_number;
        cout<<endl<<"Name: "<<mem_name;
        cout<<endl<<"category: "<<classs;
        cout<<endl<<"fee: "<<fee;
        cout<<endl<<"contact: "<<contact;
        cout<<endl<<"timings: "<<timings<<endl;
    }

};

fstream fp;
member m1;
```

```
    void fnmanage()
    {
        for(;;)
        {
        system("CLS");
        int option;
        cout<<"\t*********************************************";
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        cout<<"\n\tPress 4 to EDIT MEMBER DETAILS";
        cout<<"\n\tPress 5 to DELETE MEMBER";
        cout<<"\n\tPress 6 to GO BACK TO MAIN MENU";
        cout<<"\n\t*********************************************";
        cout<<"\n\n\tOption: ";
        cin>>option;
        switch(option)
        {
            case 1: system("CLS");
                    save_member();
                    break;

            case 2: show_all();
                    break;

            case 3:
                    int num;
                system("CLS");
                    cout<<"\n\n\tPlease Enter The member Number: ";
                    cin>>num;
                    display_record(num);
                    break;

            case 4: edit_member();
                break;

            case 5: delete_member();
                    break;

            case 6: system("CLS");
                    break;

            default:fnmanage();
            }
        }
    }

void user::fnuser()
```

```
{
    for(;;){
//  int m;
    cout<<"1.join gym\n2.quit gym\n3.edit your profile\n4.make payment\n";
    cout<<endl<<"enter your choice"<<endl;
    cin>>m;
    switch(m)
    {
        case 1:system("CLS");
                    save_member();
                    break;
            case 2:delete_member();
                    break;
            //case 3:fitness();
            //  break;
            case 3:edit_member();
                   break;
            // case 4 :payment() ;
            //        break ;

    }
}

}

int main()
{
        int i,k;
        string name,code;
        cout<<"\n\t\t*********Gym Management System Project in
C++*********"<<endl;

        role r ;
           i =  r.Role() ;
            if(i==1){

                    user u ;
                    u.fnuser();
                    }
            if(i==2){

                    alogin ad;
                    k=ad.adlogin();
                    if(k==1)
                    {
                        fnmanage();
                    }
                    else
```

```
                    {
                        cout<<"you cannot access manageral details!";
                    }
                    }
        return 0;
}
```

Output :

```
Gym Management System Project in C++

SELECT MODE
1.User
2.Admin
2

you're in admin mode
enter the admin code
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```
Gym Management System Project in C++

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Press 3 to SEARCH FOR A PARTICULAR RECORD
Press 4 to EDIT MEMBER DETAILS
Press 5 to DELETE MEMBER
Press 6 to GO BACK TO MAIN MENU
****
Option:

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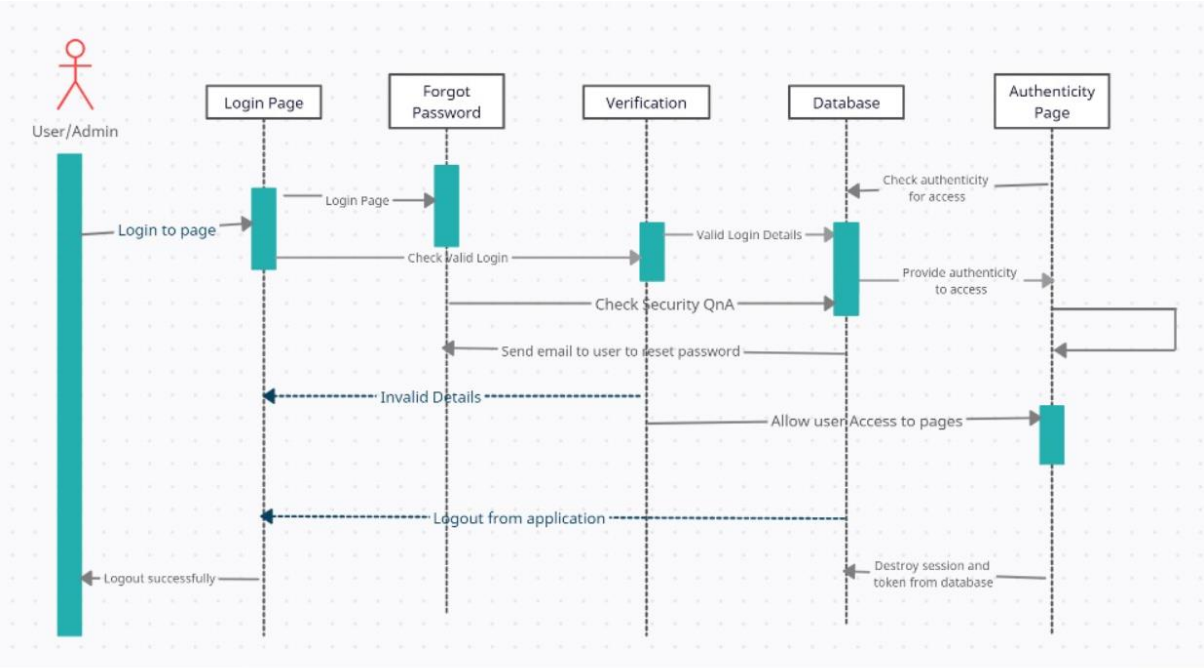
PRN – 22010583

Roll Number - 332048

Assignment 4

Sequence Diagram:



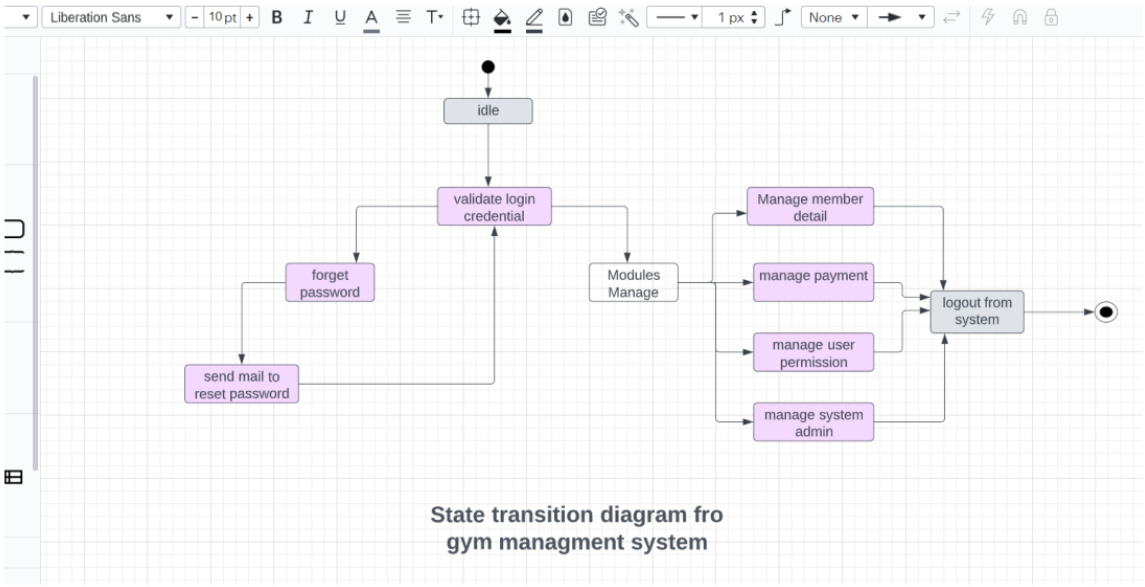
Name – Tejas Raut

Class – TY IT B
PRN – 22010583

Roll Number - 332048

Assignment 5

State Model Diagram:



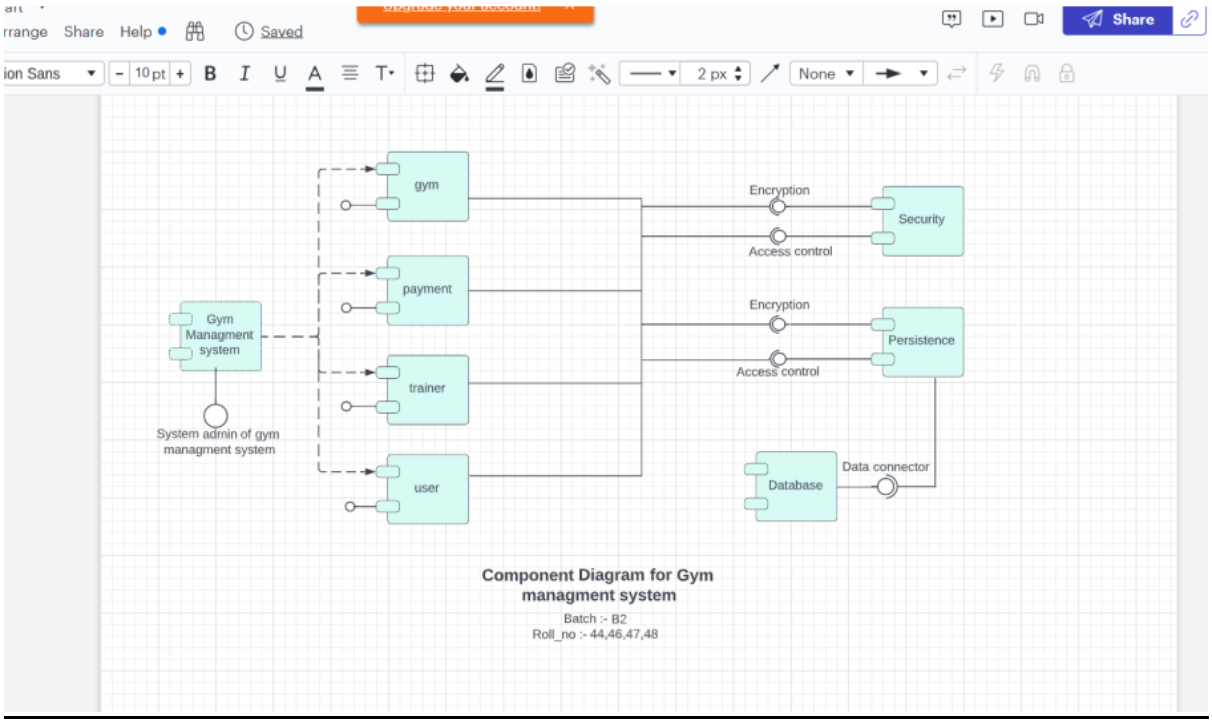
Name – Tejas Raut

Class – TY IT B
PRN – 22010583

Roll Number - 332048

Assignment 6

Component Diagram:



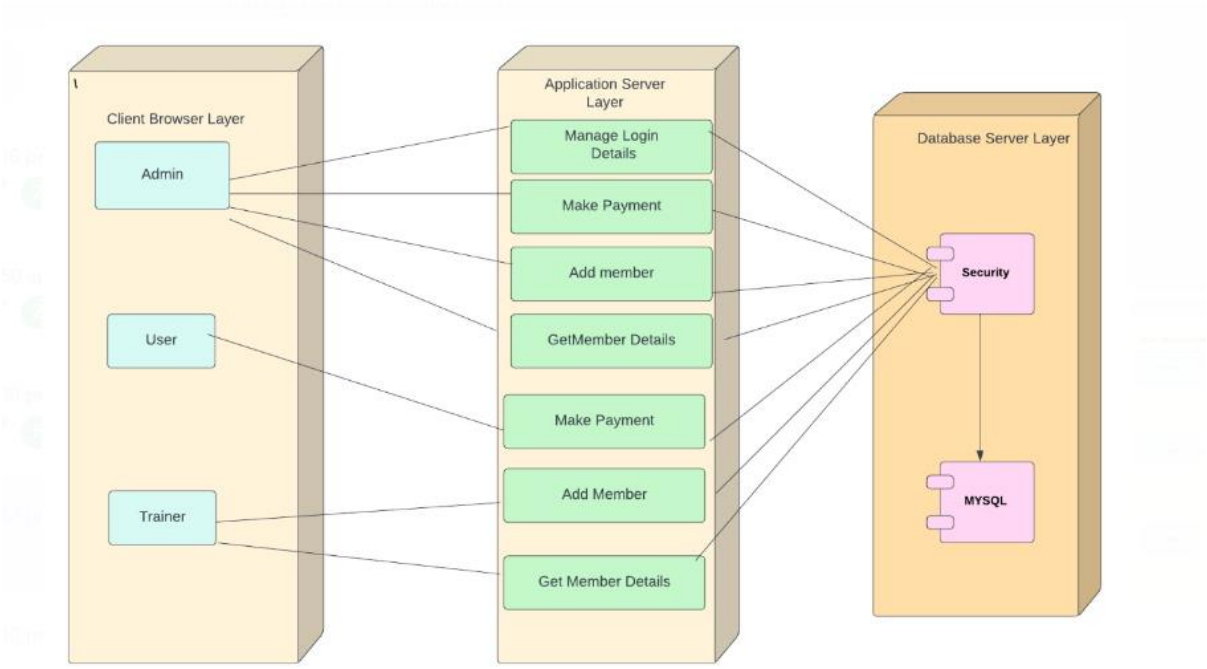
Name – Tejas Raut

Class – TY IT B
PRN – 22010583

Roll Number - 332048

Assignment 7

Deployment Diagram:



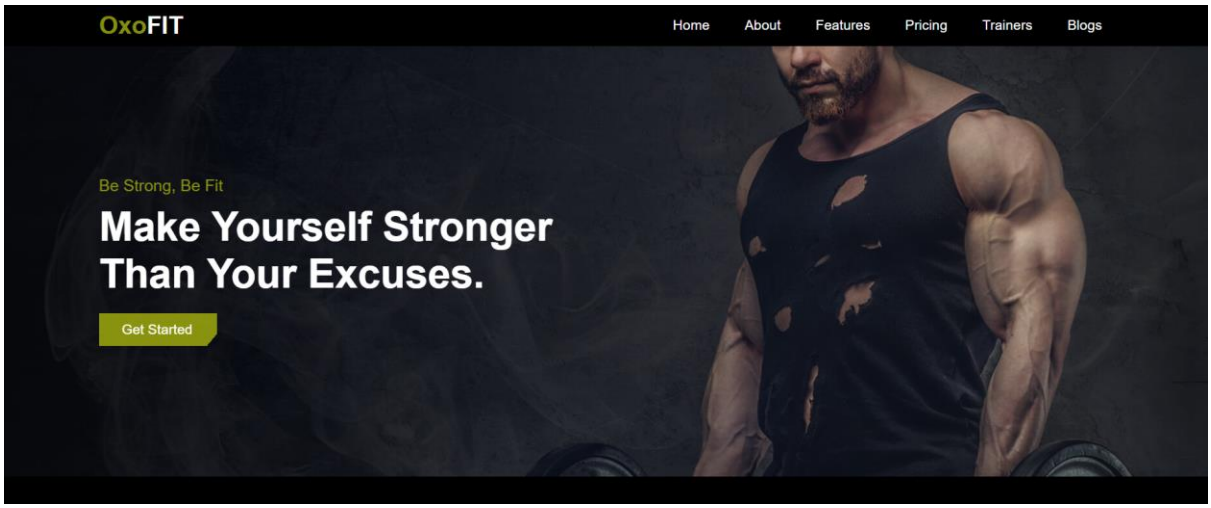
Deployment Diagram
Gym managment system

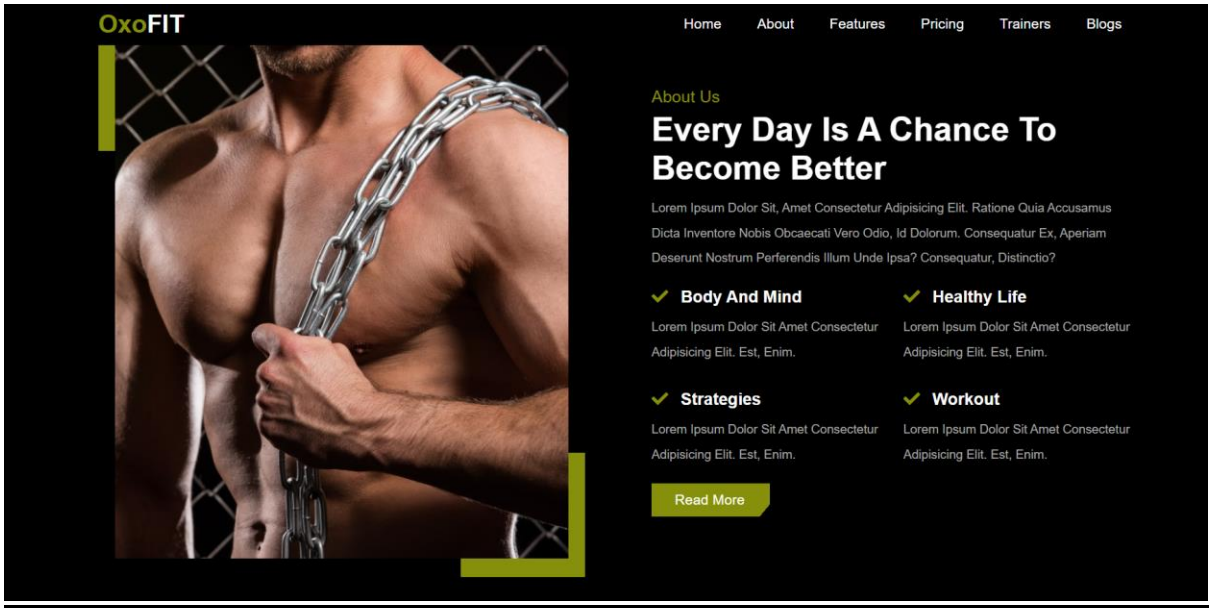
Name – Tejas Raut

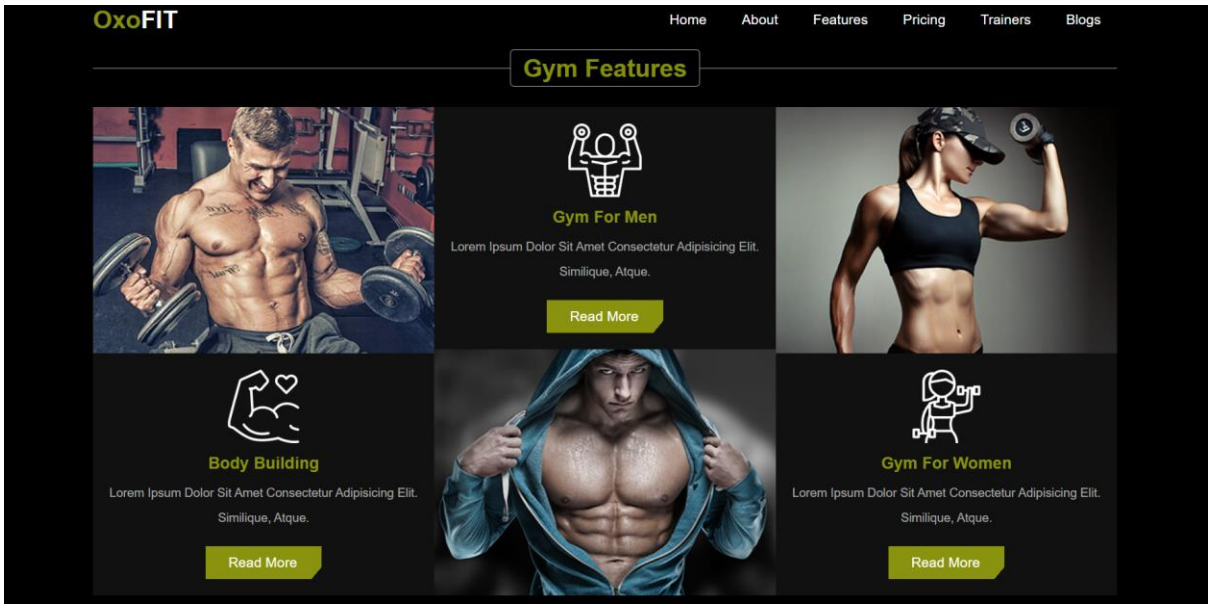
Class – TY IT B
PRN – 22010583

Roll Number - 332048

Assignment 8&9




OxoFIT
Home
About
Features
Pricing
Trainers
Blogs
About Us
Every Day Is A Chance To Become Better
Lorem Ipsum Dolor Sit, Amet Consectetur Adipisicing Elit. Ratione Quia Accusamus Dicta Inventore Nobis Obcaecati Vero Odio, Id Dolorum. Consequatur Ex, Aperiam Deserunt Nostrum Perferendis Illum Unde Ipsa? Consequatur, Distinctio?
Body And Mind
Lorem Ipsum Dolor Sit Amet Consectetur Adipisicing Elit. Est, Enim.
Healthy Life
Lorem Ipsum Dolor Sit Amet Consectetur Adipisicing Elit. Est, Enim.
Strategies
Lorem Ipsum Dolor Sit Amet Consectetur Adipisicing Elit. Est, Enim.
Workout
Lorem Ipsum Dolor Sit Amet Consectetur Adipisicing Elit. Est, Enim.
Read More


OxoFIT
Home
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Trainers
Blogs
Gym Features
Gym For Men
Lorem Ipsum Dolor Sit Amet Consectetur Adipisicing Elit. Similique, Atque.
Read More
Body Building
Lorem Ipsum Dolor Sit Amet Consectetur Adipisicing Elit. Similique, Atque.
Read More
Gym For Women
Lorem Ipsum Dolor Sit Amet Consectetur Adipisicing Elit. Similique, Atque.
Read More