NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR

Dept:- Computer Science And Engineering



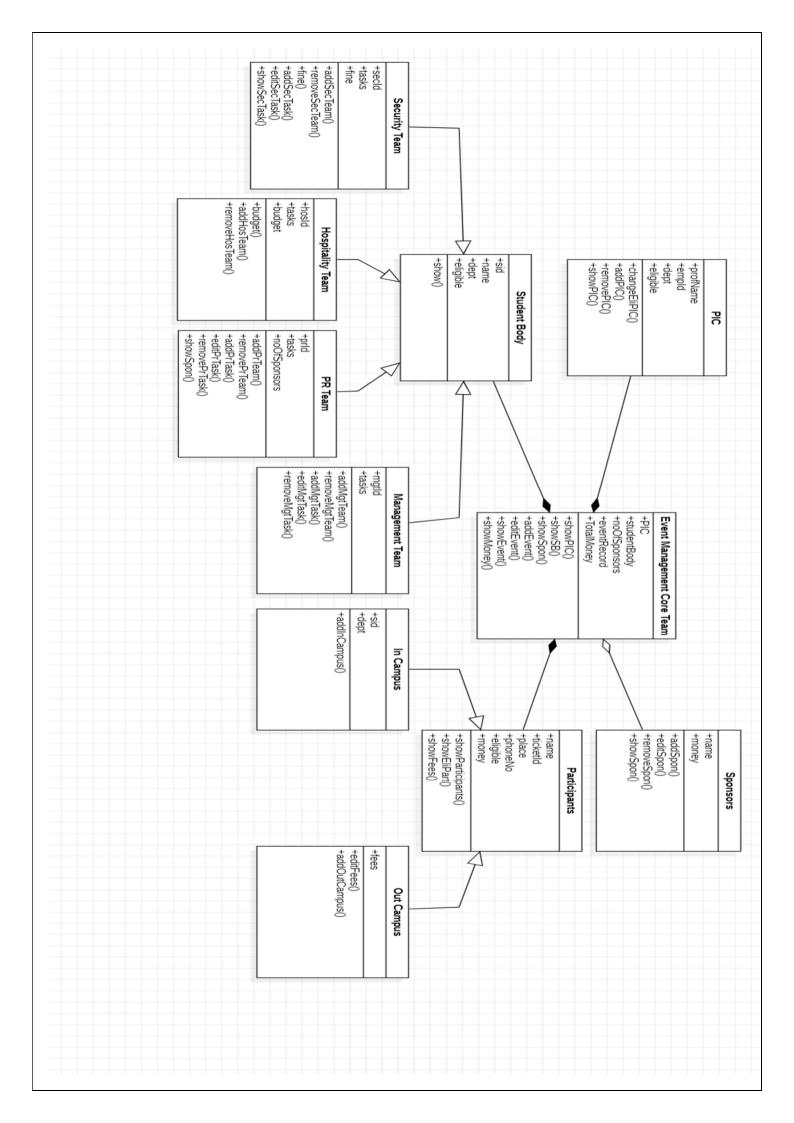
Object Oriented Design Lab

<u>Event Management System</u>



CS-315

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CODE

```
#include <bits/stdc++.h>
#include <conio.h>
#define nn "\n"
#define II long long
#define pb push_back
#define pll pair<ll, ll>
#define vII vector<II>
#define all(_obj) _obj.begin(), _obj.end()
#define fr(x, y) for (II x = 0; x < y; x++)
#define nach basanti
  ios_base::sync_with_stdio(false); \
  cin.tie(0);
  cout.tie(0);
#define inp(x) \
  ll x; \
  cin >> x;
#define inpv(v, n) \
  vII v(n); \
  fr(i, n) cin >> v[i];
#define printv(v) fr(i, v.size()) cout << v[i] << " ";
#define yes cout << "YES"
#define no cout << "NO"
#define home return;
const II mod = 1e9 + 7;
using namespace std;
Il tot money = 0;
II tot_fine = 0;
class StudentBody
{
public:
  string sid;
  string name;
  string dept;
  int eli;
  StudentBody(string sid, string name, string dept, int eli)
    this->sid = sid:
    this->name = name:
    this->dept = dept;
    this->eli = eli;
  void intro()
  {
    cout << "Scholar ID: " << sid << nn;
    cout << "Name : " << name << nn;
    cout << "Department : " << dept << nn;
    cout << "Eligibility: " << (eli? "Yes": "No") << nn;
};
class SecurityTeam: public StudentBody
{
public:
  string secId;
  SecurityTeam(string sid, string name, string dept, int eli, string secId):
StudentBody(sid, name, dept, eli)
    this->secId = secId:
  }
  void intro()
  {
    cout << "Scholar ID: " << sid << nn;
    cout << "Name : " << name << nn;
    cout << "Department : " << dept << nn;
    cout << "Eligibility: " << (eli? "Yes": "No") << nn;
    cout << "Security ID: " << secId << nn;
  }
};
class HospitalityTeam: public StudentBody
```

```
public:
  string hosId;
  HospitalityTeam(string sid, string name, string dept, int eli, string hosId):
StudentBody(sid, name, dept, eli)
    this->hosId = hosId;
  }
  void intro()
  {
    cout << "Scholar ID : " << sid << nn;
    cout << "Name : " << name << nn;
    cout << "Department : " << dept << nn;
    cout << "Eligibility: " << (eli? "Yes": "No") << nn;
    cout << "Hospitality ID: " << hosId << nn;
  }
};
class PRTeam: public StudentBody
public:
  string prld;
  PRTeam(string sid, string name, string dept, int eli, string prld):
StudentBody(sid, name, dept, eli)
    this->prld = prld;
  }
  void intro()
    cout << "Scholar ID : " << sid << nn;
    cout << "Name : " << name << nn;
    cout << "Department : " << dept << nn;
    cout << "Eligibility: " << (eli? "Yes": "No") << nn;
    cout << "PR ID : " << prid << nn;
  }
};
class ManagementTeam: public StudentBody
public:
  string mgtld;
  ManagementTeam(string sid, string name, string dept, int eli, string
mgtId): StudentBody(sid, name, dept, eli)
    this->mgtId = mgtId;
  }
  void intro()
    cout << "Scholar ID: " << sid << nn;
    cout << "Name : " << name << nn;
    cout << "Department : " << dept << nn;
    cout << "Eligibility: " << (eli? "Yes": "No") << nn;
    cout << "Management ID: " << mgtld << nn;
};
class Participant
public:
  string name;
  string tid;
  string place;
  string pno;
  int eli;
  int mon fees;
  Participant(string name, string tid, string place, string pno, int eli, int
mon_fees)
  {
    this->name = name;
    this->tid = tid;
    this->place = place;
    this->pno = pno;
    this->eli = eli;
    this->mon_fees = mon_fees;
  }
  void intro()
    cout << "Name : " << name << nn;
    cout << "Ticket No. : " << tid << nn;
```

```
cout << "Place : " << place << nn;
    cout << "Phone No.: " << pno << nn;
                                                                                          Sponsors(string name, II money)
    cout << "Eligibility : " << (eli ? "Yes" : "No") << nn;
    cout << "Fees Given: " << mon_fees << nn;
                                                                                            this->name = name;
  }
                                                                                            this->money = money;
};
                                                                                          void intro()
class InParticipant: public Participant
{
public:
                                                                                            cout << "Name : " << name << nn;
  string sid;
                                                                                            cout << "Money Invested: " << money << nn;
  string dept;
                                                                                          }
  InParticipant(string name, string sid, string dept, string tid, string place,
                                                                                       };
string pno, int eli, int mon_fees): Participant(name, tid, place, pno, eli,
mon_fees)
                                                                                        vector<Prof> profInCharge;
                                                                                        map<string, vector<string>> eventRecord;
    this->sid = sid;
                                                                                        vector<Sponsors> paisa:
    this->dept = dept;
                                                                                        vector<InParticipant> andar_wale;
                                                                                        vector<OutParticipant> bahar_wale;
  void intro()
  {
                                                                                        vector<SecurityTeam> sec_team_wale;
    cout << "Name : " << name << nn;
                                                                                        vector<PRTeam> pr_team_wale;
    cout << "Scholar ID: " << sid << nn;
                                                                                        vector<HospitalityTeam> hos_team_wale;
    cout << "Department : " << dept << nn;
                                                                                        vector<ManagementTeam> mgt_team_wale;
    cout << "Ticket No. : " << tid << nn;
    cout << "Place : " << place << nn;
                                                                                        map<string, vector<string>> mgtTask;
    cout << "Phone No.: " << pno << nn;
                                                                                        map<string, vector<string>> secTask;
    cout << "Eligibility: " << (eli? "Yes": "No") << nn;
                                                                                        map<string, vector<string>> prTask;
    cout << "Fees Given : " << mon_fees << nn;
  }
                                                                                        void decor()
};
class OutParticipant: public Participant
                                                                                          cout <<
public:
                                                                                        void decor_choice()
  int fees;
  OutParticipant(string name, int fees, string tid, string place, string pno, int
                                                                                          cout << "Your Choice: ";
eli, int mon_fees): Participant(name, tid, place, pno, eli, mon_fees)
                                                                                        // Event MGT Part
    this->fees = fees;
                                                                                        void showPIC()
  }
  void intro()
                                                                                          if (profInCharge.size())
  {
    cout << "Name : " << name << nn;
                                                                                            decor();
                                                                                            cout << "The PICs are -" << endl;
    cout << "Extraa fees collected : " << fees << nn;
    cout << "Ticket No. : " << tid << nn;
                                                                                            decor();
    cout << "Place : " << place << nn;
                                                                                            for (auto &it : profInCharge)
    cout << "Phone No.: " << pno << nn;
    cout << "Eligibility: " << (eli? "Yes": "No") << nn;
                                                                                              it.intro();
    cout << "Fees Given : " << mon_fees << nn;
                                                                                               decor();
                                                                                            }
};
                                                                                          }
class Prof
                                                                                          else
{
                                                                                          {
public:
                                                                                            cout << "No PICs";
  string name;
  string dept;
                                                                                          getch();
  int eli:
  Prof(string name, string dept, int eli)
                                                                                       }
    this->name = name;
                                                                                        void showSB()
    this->dept = dept;
    this->eli = eli;
                                                                                          decor();
                                                                                          cout << "Student Body Members:" << nn;
  }
  void intro()
                                                                                          decor();
                                                                                          cout << nn;
    cout << "Name : " << name << nn;
                                                                                          cout << "Security Team" << nn;
    cout << "Department : " << dept << nn;
                                                                                          decor();
    cout << "Eligible : " << (eli == 0 ? "No" : "Yes") << nn;
                                                                                          if (sec_team_wale.size())
                                                                                            for (auto &it : sec_team_wale)
  void changeEli()
  {
                                                                                            {
    eli = !eli;
                                                                                              it.intro();
                                                                                              decor();
};
class Sponsors
                                                                                            decor();
                                                                                          }
public:
                                                                                          else
  string name;
```

```
cout << "No Members" << nn;
                                                                                        void addEvent()
  decor();
                                                                                          string date, event;
                                                                                          decor();
  cout << "Management Team" << nn;
  decor();
                                                                                          cout << "Enter Date: ";
  if (mgt_team_wale.size())
                                                                                          fflush(stdin);
                                                                                          getline(cin, date);
                                                                                          cout << "Enter Event : ";
    for (auto &it : mgt_team_wale)
                                                                                          fflush(stdin);
    {
      it.intro();
                                                                                          getline(cin, event);
      decor();
                                                                                          decor();
                                                                                          eventRecord[date].push_back(event);
    decor();
  }
                                                                                        void editEvent()
  else
                                                                                          decor():
    cout << "No Members" << nn;
                                                                                          cout << "The Events are -" << endl;
                                                                                          decor();
  decor();
                                                                                          for (auto &it : eventRecord)
  cout << "Hospitality Team" << nn;
                                                                                             cout << it.first << " : " << nn;
  decor();
  if (hos_team_wale.size())
                                                                                             for (auto &i: it.second)
    for (auto &it : hos_team_wale)
                                                                                               cout << i << endl;
    {
      it.intro();
                                                                                             decor();
      decor();
                                                                                          }
                                                                                          cout << "Enter date to edit: ";
    decor();
                                                                                          string date, event;
  }
                                                                                          fflush(stdin);
                                                                                          getline(cin, date);
  else
    cout << "No Members" << nn;
                                                                                          if (eventRecord.find(date) == eventRecord.end())
                                                                                          {
  }
  decor();
                                                                                             cout << "Date is not present in the events";
  cout << "PR Team" << nn;
  decor();
                                                                                          else
  if (pr_team_wale.size())
                                                                                          {
                                                                                             cout << "Enter Event : ";
  {
    for (auto &it : pr_team_wale)
                                                                                             fflush(stdin);
    {
                                                                                             getline(cin, event);
      it.intro();
                                                                                             eventRecord[date].clear();
                                                                                             eventRecord[date].push_back(event);
      decor();
                                                                                             cout << "Event Edited Successfully" << nn;
    decor();
  }
                                                                                          getch();
  else
                                                                                        void showEvent()
    cout << "No Members" << nn;
 }
  decor();
                                                                                          if (eventRecord.size())
  getch();
                                                                                             decor();
                                                                                             cout << "The Events are -" << endl;
void showSpon()
                                                                                             decor();
                                                                                             for (auto &it : eventRecord)
  II sum = 0;
  if (paisa.size())
                                                                                               cout << it.first << " : " << nn;
  {
                                                                                               for (auto &i: it.second)
    decor();
    cout << "The Sponsors are -" << endl;
                                                                                                 cout << i << endl;
    decor();
                                                                                               }
    for (auto &it : paisa)
                                                                                               decor();
                                                                                            }
                                                                                          }
      it.intro();
      sum += it.money;
                                                                                          else
      decor();
                                                                                             cout << "No Events";
    cout << "Total Money Accumulated: " << sum << nn;
                                                                                          }
    decor();
                                                                                          getch();
  else
                                                                                        void eventMgtCore()
    cout << "No Sponsors";
                                                                                           while (1)
  getch();
                                                                                             system("cls");
```

}

}

```
decor();
                                                                                          profInCharge[choose].changeEli();
    cout << "Event Management Core Team: " << nn;
                                                                                       }
    decor();
                                                                                       void removePIC()
    cout << "1. Show PIC" << nn;
    cout << "2. Show Student Body Members" << nn;
                                                                                          if (!profInCharge.size())
    cout << "3. Show Sponsors" << nn;
    cout << "4. Add Events" << nn;
                                                                                            cout << "No PICs" << endl;
    cout << "5. Edit Events" << nn;
                                                                                            return;
    cout << "6. Show Events" << nn;
    cout << "7. Go Back to Homepage" << nn;
                                                                                          Il choose;
                                                                                          cout << "The PICs are -" << endl;
    decor_choice();
                                                                                          decor():
    inp(ch);
                                                                                         II i = 1;
    switch (ch)
                                                                                          for (auto &it : profInCharge)
    case 1:
                                                                                            cout << i << ". ";
      showPIC();
                                                                                            i++;
      break;
                                                                                            it.intro();
                                                                                            decor();
    case 2:
      showSB();
                                                                                          }
                                                                                          cout << "Enter Choice of Prof. to remove: ";
      break;
    case 3:
                                                                                          cin >> choose;
      showSpon();
                                                                                          choose--:
      break:
                                                                                          vector<Prof> temp;
                                                                                          for (int i = 0; i < profInCharge.size(); i++)
    case 4:
      addEvent();
                                                                                            if (i == choose)
      break:
                                                                                              continue;
    case 5:
      editEvent();
                                                                                            temp.push_back(profInCharge[i]);
      break;
    case 6:
                                                                                          profinCharge = temp;
      showEvent();
                                                                                       }
                                                                                       void pic()
      break;
    case 7:
                                                                                       {
      cout << "Going to Homepage..." << nn;
                                                                                          while (1)
      home:
                                                                                            system("cls");
      break;
  }
                                                                                            cout << "Professor In Charge: " << nn;
                                                                                            decor();
                                                                                            cout << "1. Add PIC" << nn;
// PIC part
void addPIC()
                                                                                            cout << "2. Change Eligibility" << nn;
                                                                                            cout << "3. Remove PIC" << nn;
                                                                                            cout << "4. Show PIC" << nn;
  string name, dept;
                                                                                            cout << "5. Go Back to Homepage" << nn;
  int eli:
  decor();
                                                                                            decor_choice();
  cout << "Enter Name: ";
                                                                                            inp(ch);
  cin >> name:
  cout << "Enter Department: ";
                                                                                            switch (ch)
  cin >> dept;
  cout << "Enter Eligibility: ";
                                                                                            case 1:
                                                                                              addPIC();
  cin >> eli:
  decor();
                                                                                              break;
  Prof p(name, dept, eli);
                                                                                            case 2:
  profinCharge.push_back(p);
                                                                                              changeEliPIC();
                                                                                              break:
void changeEliPIC()
                                                                                            case 3:
                                                                                              removePIC();
  if (!profInCharge.size())
                                                                                              break;
                                                                                            case 4:
  {
    cout << "No PICs" << endl;
                                                                                              showPIC();
    return;
                                                                                            case 5:
                                                                                              cout << "Going to Homepage..." << nn;
  Il choose;
  cout << "The PICs are -" << endl;
                                                                                              home:
  decor();
                                                                                              break;
  ll i = 1;
  for (auto &it : profInCharge)
                                                                                         }
  {
    cout << i << ". ";
    i++;
                                                                                       // Student Body Part
    it.intro();
                                                                                       // Security Team
                                                                                        void addSecTeam()
    decor();
  cout << "Enter Choice of Prof. to change Eligibility: ";
                                                                                          string sid;
  cin >> choose;
                                                                                          string name;
  choose--;
                                                                                          string dept;
```

}

}

{

```
int eli;
  string secId;
                                                                                           for (auto &it : secTask)
                                                                                             cout << it.first << " : " << nn;
  decor();
  cout << "Enter Scholar ID: ";
                                                                                             for (auto &i : it.second)
  cin >> sid;
  cout << "Enter Name : ";
                                                                                               cout << i << endl;
  cin >> name;
                                                                                             }
  cout << "Enter Department : ";
                                                                                             decor();
  cin >> dept;
                                                                                           }
  cout << "Enter Eligibility: ";
                                                                                           cout << "Enter date to edit : ";
  cin >> eli:
                                                                                           string date, event;
  cout << "Enter Security Id: ";
                                                                                           fflush(stdin);
  cin >> secId;
                                                                                           getline(cin, date);
  decor();
  SecurityTeam sec_team(sid, name, dept, eli, secId);
                                                                                           if (secTask.find(date) == secTask.end())
  sec_team_wale.push_back(sec_team);
                                                                                           {
                                                                                             cout << "Date is not present in the events";
void removeSecTeam()
                                                                                           else
{
  if (!sec_team_wale.size())
                                                                                           {
                                                                                             cout << "Enter Task: ";
  {
    cout << "No Security Team members" << endl;
                                                                                             fflush(stdin);
                                                                                             getline(cin, event);
    return;
                                                                                             secTask[date].clear();
  Il choose;
                                                                                             secTask[date].push_back(event);
  cout << "The Security Team members are -" << endl;
                                                                                             cout << "Task Edited Successfully" << nn;
  decor():
                                                                                           getch();
  for (auto &it : sec_team_wale)
                                                                                         void showSecTask()
    cout << i << ". ";
    i++;
                                                                                           decor();
    it.intro();
                                                                                           cout << "The Security Tasks are -" << endl;
    decor();
                                                                                           decor();
                                                                                           for (auto &it : secTask)
  cout << "Enter Choice of Member to remove: ";
  cin >> choose;
                                                                                             cout << it.first << " : " << nn;
  choose--;
                                                                                             for (auto &i: it.second)
  vector<SecurityTeam> temp;
  for (int i = 0; i < sec_team_wale.size(); i++)
                                                                                               cout << i << endl;
  {
    if (i == choose)
                                                                                             decor();
                                                                                           }
      continue;
    temp.push_back(sec_team_wale[i]);
                                                                                           decor():
                                                                                           getch();
  sec_team_wale = temp;
}
                                                                                         void secTeam()
void fine()
                                                                                           while (1)
  II fine:
                                                                                             system("cls");
  decor():
  cout << "Enter Fine to be collected: ";
                                                                                             decor();
                                                                                             cout << "Security Team: " << nn;
  tot_money += fine;
                                                                                             decor();
  cout << "Fine collected: " << fine;
                                                                                             cout << "1. Add Team Member" << nn;
                                                                                             cout << "2. Remove Team Member" << nn;
  cout << nn:
  cout << "Total Money: " << tot_money;
                                                                                             cout << "3. Fine" << nn;
  decor();
                                                                                             cout << "4. Add Task" << nn;
                                                                                             cout << "5. Edit Task" << nn;
}
void addSecTask()
                                                                                             cout << "6. Show Task" << nn;
                                                                                             cout << "7. Go to Student Body" << nn;
{
  string date, task;
                                                                                             decor_choice();
  decor();
  cout << "Enter Date : ";
                                                                                             inp(ch);
  fflush(stdin);
                                                                                             switch (ch)
  getline(cin, date);
  cout << "Enter Task: ";
                                                                                             case 1:
                                                                                               addSecTeam();
  fflush(stdin);
  getline(cin, task);
                                                                                               break;
  decor();
                                                                                             case 2:
  secTask[date].push_back(task);
                                                                                                removeSecTeam();
}
                                                                                               break:
void editSecTask()
                                                                                             case 3:
                                                                                               fine();
  decor();
                                                                                               break;
  cout << "The Security Tasks are -" << endl;
                                                                                             case 4:
```

```
addSecTask();
                                                                                        decor();
      break:
                                                                                      }
                                                                                      void hosTeam()
    case 5:
      editSecTask();
                                                                                         while (1)
      break;
    case 6:
      showSecTask();
                                                                                           system("cls");
      break;
                                                                                           decor();
    case 7:
                                                                                           cout << "Hospitality Team : " << nn;
      cout << "Going to Student Body..." << nn;
                                                                                           decor();
                                                                                           cout << "1. Add Team Member" << nn;
      home:
      break:
                                                                                           cout << "2. Remove Team Member" << nn;
                                                                                           cout << "3. Budget" << nn;
  }
                                                                                           cout << "4. Go to Student Body" << nn;
}
                                                                                           decor_choice();
// Hos Team
void addHosTeam()
                                                                                           inp(ch);
                                                                                           switch (ch)
  string sid;
                                                                                           {
  string name;
                                                                                           case 1:
  string dept;
                                                                                             addHosTeam();
  int eli;
                                                                                             break;
  string hosId;
                                                                                           case 2:
                                                                                             removeHosTeam();
  decor();
                                                                                             break;
  cout << "Enter Scholar ID: ";
                                                                                           case 3:
  cin >> sid:
                                                                                             budget();
  cout << "Enter Name : ";
                                                                                             break:
  cin >> name;
                                                                                           case 4:
  cout << "Enter Department : ";
                                                                                             cout << "Going to Student Body..." << nn;
  cin >> dept;
                                                                                            home;
  cout << "Enter Eligibility: ";
                                                                                             break:
  cin >> eli;
                                                                                          }
  cout << "Enter Hospitality Id:";
                                                                                        }
  cin >> hosld;
                                                                                      // Mgt Team
  decor():
  HospitalityTeam hos_team(sid, name, dept, eli, hosId);
                                                                                      void addMgtTeam()
  hos_team_wale.push_back(hos_team);
}
                                                                                        string sid;
void removeHosTeam()
                                                                                        string name;
{
                                                                                        string dept;
  if (!hos_team_wale.size())
                                                                                        int eli;
  {
                                                                                        string mgtld;
    cout << "No Hospitality Team members" << endl;
    return;
                                                                                        decor():
                                                                                        cout << "Enter Scholar ID: ";
  Il choose;
                                                                                        cin >> sid;
                                                                                        cout << "Enter Name : ";
  cout << "The Hospitality Team members are -" << endl;
  decor();
                                                                                        cin >> name:
  II i = 1;
                                                                                        cout << "Enter Department : ";
  for (auto &it : hos_team_wale)
                                                                                        cin >> dept;
                                                                                        cout << "Enter Eligibility: ";
  {
    cout << i << ". ";
                                                                                        cin >> eli;
                                                                                        cout << "Enter Management Id: ";
    i++;
    it.intro();
                                                                                        cin >> mgtld;
    decor();
                                                                                        ManagementTeam mg_team(sid, name, dept, eli, mgtld);
  cout << "Enter Choice of Member to remove : ";
                                                                                        mgt_team_wale.push_back(mg_team);
  cin >> choose;
                                                                                      }
                                                                                      void removeMgtTeam()
  choose--;
  vector<HospitalityTeam> temp;
  for (int i = 0; i < hos_team_wale.size(); i++)
                                                                                        if (!mgt_team_wale.size())
  {
    if (i == choose)
                                                                                           cout << "No Management Team members" << endl;
      continue:
                                                                                          return;
    temp.push_back(hos_team_wale[i]);
                                                                                        }
  hos_team_wale = temp;
                                                                                        cout << "The Management Team members are -" << endl;
                                                                                        decor();
}
void budget()
                                                                                        II i = 1;
                                                                                        for (auto &it : mgt_team_wale)
  decor();
                                                                                           cout << i << ". ";
  cout << "Enter the Budget: ";
  Il budget;
                                                                                           i++;
  cin >> budget;
                                                                                           it.intro();
  tot_money += budget;
                                                                                           decor();
  cout << "Total Money : " << tot_money << nn;
                                                                                        }
```

```
cout << "Enter Choice of Member to remove : ";
                                                                                          if (mgtTask.find(date) == mgtTask.end())
  cin >> choose:
  choose--;
                                                                                          {
  vector<ManagementTeam> temp;
                                                                                            cout << "Date is not present in the events";
  for (int i = 0; i < mgt_team_wale.size(); i++)
                                                                                          }
                                                                                          else
  {
    if (i == choose)
                                                                                          {
      continue;
                                                                                            mgtTask[date].clear();
    temp.push_back(mgt_team_wale[i]);
                                                                                            cout << "Task Removed Successfully" << nn;
                                                                                         }
  mgt_team_wale = temp;
                                                                                          getch();
}
void addMgtTask()
                                                                                       void mgtTeam()
{
  string date, task;
                                                                                          while (1)
  decor():
  cout << "Enter Date: ";
                                                                                            system("cls");
  fflush(stdin);
                                                                                            decor();
  getline(cin, date);
                                                                                            cout << "Management Team: " << nn;
  cout << "Enter Task : ";
                                                                                            decor();
                                                                                            cout << "1. Add Team Member" << nn;
  fflush(stdin);
  getline(cin, task);
                                                                                            cout << "2. Remove Team Member" << nn;
                                                                                            cout << "3. Add Task" << nn;
  decor();
  mgtTask[date].push_back(task);
                                                                                            cout << "4. Edit Task" << nn;
                                                                                            cout << "5. Remove Task" << nn;
}
void editMgtTask()
                                                                                            cout << "6. Go to Student Body" << nn;
                                                                                            decor_choice();
{
  decor():
  cout << "The Management Tasks are -" << endl;
                                                                                            inp(ch);
  decor();
                                                                                            switch (ch)
  for (auto &it: mgtTask)
                                                                                            case 1:
    cout << it.first << " : " << nn;
                                                                                              addMgtTeam();
    for (auto &i: it.second)
                                                                                              break;
    {
                                                                                            case 2:
      cout << i << endl;
                                                                                              removeMgtTeam();
                                                                                              break;
    decor();
                                                                                            case 3:
                                                                                              addMgtTask();
  cout << "Enter date to edit : ";
                                                                                              break;
  string date, event;
                                                                                            case 4:
  fflush(stdin);
                                                                                              editMgtTask();
  getline(cin, date);
                                                                                              break;
                                                                                            case 5:
  if (mgtTask.find(date) == mgtTask.end())
                                                                                              removeMgtTask();
                                                                                              break;
    cout << "Date is not present in the events";
                                                                                            case 6:
                                                                                              cout << "Going to Student Body..." << nn;
  }
  else
                                                                                              home;
  {
                                                                                              break;
    cout << "Enter Task: ";
    fflush(stdin);
                                                                                         }
    getline(cin, event);
                                                                                       // PR Team
    mgtTask[date].clear();
    mgtTask[date].push_back(event);
                                                                                       void addPrTeam()
    cout << "Task Edited Successfully" << nn;
  }
                                                                                          string sid;
                                                                                          string name;
  getch();
}
                                                                                          string dept;
void removeMgtTask()
                                                                                          int eli;
                                                                                          string prld;
  decor();
  cout << "The Management Tasks are -" << endl;
                                                                                          decor();
  decor();
                                                                                          cout << "Enter Scholar ID: ";
  for (auto &it : mgtTask)
                                                                                          cin >> sid:
                                                                                          cout << "Enter Name: ";
    cout << it.first << " : " << nn;
                                                                                          cin >> name;
    for (auto &i : it.second)
                                                                                          cout << "Enter Department : ";
                                                                                          cin >> dept;
    {
                                                                                          cout << "Enter Eligibility: ";
      cout << i << endl;
                                                                                          cin >> eli;
                                                                                          cout << "Enter PR Id: ";
    decor();
                                                                                          cin >> prld;
  cout << "Enter date to remove : ";
                                                                                          decor();
  string date, event;
                                                                                          PRTeam pr_team(sid, name, dept, eli, prld);
  fflush(stdin);
                                                                                          pr_team_wale.push_back(pr_team);
  getline(cin, date);
                                                                                       }
```

```
void removePrTeam()
                                                                                         void removePrTask()
{
  if (!pr_team_wale.size())
                                                                                          decor();
                                                                                          cout << "The PR Tasks are -" << endl;
  {
    cout << "No PR Team members" << endl;
    return;
                                                                                          for (auto &it : prTask)
                                                                                             cout << it.first << " : " << nn;
  Il choose;
  cout << "The PR Team members are -" << endl;
                                                                                             for (auto &i: it.second)
  decor();
  II i = 1;
                                                                                               cout << i << endl;
  for (auto &it : pr_team_wale)
                                                                                             decor();
    cout << i << ". ";
                                                                                          cout << "Enter date to remove: ";
    i++:
    it.intro();
                                                                                          string date, event;
                                                                                          fflush(stdin);
    decor();
                                                                                          getline(cin, date);
  cout << "Enter Choice of Member to remove : ";
  cin >> choose;
                                                                                          if (prTask.find(date) == prTask.end())
  choose--;
                                                                                          {
  vector<PRTeam> temp;
                                                                                             cout << "Date is not present in the events";
  for (int i = 0; i < pr_team_wale.size(); i++)
                                                                                          }
                                                                                          else
    if (i == choose)
                                                                                          {
      continue;
                                                                                             prTask[date].clear();
                                                                                            cout << "Task Removed Successfully" << nn;
    temp.push_back(pr_team_wale[i]);
  pr_team_wale = temp;
                                                                                          getch();
}
void addPrTask()
                                                                                        void prTeam()
  string date, task;
                                                                                          while (1)
  decor();
  cout << "Enter Date : ";
                                                                                            system("cls");
  fflush(stdin);
                                                                                             decor();
  getline(cin, date);
                                                                                             cout << "PR Team : " << nn;
  cout << "Enter Task : ";
                                                                                             cout << "1. Add Team Member" << nn;
  fflush(stdin);
  getline(cin, task);
                                                                                             cout << "2. Remove Team Member" << nn;
  decor();
                                                                                             cout << "3. Add Task" << nn;
  prTask[date].push_back(task);
                                                                                             cout << "4. Edit Task" << nn;
}
                                                                                             cout << "5. Remove Task" << nn;
void editPrTask()
                                                                                             cout << "6. Show Sponsors" << nn;
                                                                                             cout << "7. Go to Student Body" << nn;
{
  decor();
                                                                                             decor_choice();
  cout << "The PR Tasks are -" << endl;
  decor();
                                                                                             inp(ch);
  for (auto &it: prTask)
                                                                                             switch (ch)
    cout << it.first << " : " << nn;
                                                                                             case 1:
                                                                                               addPrTeam();
    for (auto &i: it.second)
                                                                                               break;
    {
      cout << i << endl;
                                                                                             case 2:
                                                                                               removePrTeam();
    decor();
                                                                                               break:
                                                                                             case 3:
  cout << "Enter date to edit : ";
                                                                                               addPrTask();
  string date, event;
                                                                                               break;
  fflush(stdin);
                                                                                             case 4:
  getline(cin, date);
                                                                                               editPrTask();
                                                                                               break;
  if (prTask.find(date) == prTask.end())
                                                                                             case 5:
                                                                                               removePrTask();
    cout << "Date is not present in the events";
                                                                                               break:
  }
                                                                                             case 6:
  else
                                                                                               showSpon();
  {
                                                                                               break;
    cout << "Enter Task: ";
                                                                                             case 7:
    fflush(stdin);
                                                                                               cout << "Going to Student Body..." << nn;
    getline(cin, event);
                                                                                               home;
    prTask[date].clear();
                                                                                               break;
    prTask[date].push_back(event);
                                                                                            }
    cout << "Task Edited Successfully" << nn;
                                                                                          }
                                                                                        void studentBody()
  getch();
}
```

```
while (1)
                                                                                         if (!paisa.size())
  {
                                                                                         {
    system("cls");
                                                                                           cout << "No Sponsors" << endl;
    decor();
                                                                                           return;
    cout << "Student Body: " << nn;
    decor();
                                                                                         Il choose;
    cout << "1. Security Team" << nn;
                                                                                         cout << "The Sponsors are -" << endl;
    cout << "2. Hospitality Team" << nn;
                                                                                         decor();
    cout << "3. Management Team" << nn;
                                                                                         II i = 1;
                                                                                         for (auto &it : paisa)
    cout << "4. PR Team" << nn;
    cout << "5. Go Back to Homepage" << nn;
                                                                                         {
    decor_choice();
                                                                                           cout << i << ". ";
    inp(ch);
                                                                                           it.intro();
    switch (ch)
                                                                                           decor();
                                                                                         }
                                                                                         cout << "Enter Choice of Sponsor to remove: ";
    case 1:
      secTeam();
                                                                                         cin >> choose;
      break;
                                                                                         choose--;
    case 2:
                                                                                         vector<Sponsors> temp;
      hosTeam();
                                                                                         for (int i = 0; i < paisa.size(); i++)
      break;
                                                                                           if (i == choose)
    case 3:
      mgtTeam();
                                                                                             continue;
                                                                                           temp.push_back(paisa[i]);
      break;
    case 4:
      prTeam();
                                                                                         paisa = temp;
      break;
    case 5:
                                                                                       void sponsors()
      cout << "Going to Homepage..." << nn;
                                                                                       {
      home;
                                                                                         while (1)
      break:
                                                                                           system("cls");
  }
                                                                                           decor();
                                                                                           cout << "Sponsors : " << nn;
}
                                                                                           decor();
// Sponsors Part
                                                                                           cout << "1. Add Sponsors" << nn;
void addSpon()
                                                                                           cout << "2. Edit Sponsors" << nn;
                                                                                           cout << "3. Remove Sponsors" << nn;
  string name;
                                                                                           cout << "4. Show Sponsors" << nn;
                                                                                           cout << "5. Go Back to Homepage" << nn;
  Il money;
  decor();
                                                                                           decor_choice();
  cout << "Enter Name: ";
                                                                                           inp(ch);
  cin >> name;
  cout << "Enter Money: ";
                                                                                           switch (ch)
  cin >> money;
  decor();
                                                                                           case 1:
                                                                                             addSpon();
  Sponsors s(name, money);
  paisa.push_back(s);
                                                                                             break;
                                                                                           case 2:
}
void editSpon()
                                                                                             editSpon();
                                                                                             break;
{
  if (!paisa.size())
                                                                                           case 3:
                                                                                              removeSpon();
  {
    cout << "No Sponsors" << endl;
                                                                                             break;
                                                                                           case 4:
    return;
                                                                                             showSpon();
  Il choose, money;
                                                                                             break;
  cout << "The Sponsors are -" << endl;
                                                                                           case 5:
                                                                                             cout << "Going to Homepage..." << nn;
  decor();
  II i = 1;
                                                                                             home;
  for (auto &it : paisa)
                                                                                             break;
  {
                                                                                           }
    cout << i << ". ";
                                                                                         }
                                                                                       }
    i++:
    it.intro();
                                                                                       // Participants Part
                                                                                       void addInCampus()
  cout << "Enter Choice of Sponsor to change money: ";
  cin >> choose;
                                                                                         string name;
  cout << "Enter Money: ";
                                                                                         string sid;
  cin >> money;
                                                                                         string dept;
  choose--:
                                                                                         string tid;
  paisa[choose].money = money;
                                                                                         string place;
}
                                                                                         string pno;
void removeSpon()
                                                                                         int eli;
{
                                                                                         int mon_fees;
```

```
decor();
  decor();
                                                                                              }
  cout << "Enter Name: ";
                                                                                            }
  cin >> name;
                                                                                            else
  cout << "Enter Scholar ID: ";
                                                                                            {
                                                                                              cout << "No Outsiders" << nn;
  cin >> sid;
  cout << "Enter Department : ";
                                                                                              decor();
  cin >> dept;
                                                                                            }
  cout << "Enter Ticket ID: ";
                                                                                            getch();
                                                                                         }
  cin >> tid;
  cout << "Enter Place : ";
                                                                                          void showEliPart()
  cin >> place;
  cout << "Enter Phone No.: ";
                                                                                            if (andar_wale.size())
  cin >> pno;
  cout << "Enter Eligibility: ";
                                                                                              decor();
                                                                                              cout << "The Insiders are -" << endl;
  cin >> eli:
  cout << "Enter Primary Fees: ";
                                                                                              decor();
                                                                                              for (auto &it : andar_wale)
  cin >> mon_fees;
  decor();
  InParticipant ip(name, sid, dept, tid, place, pno, eli, mon_fees);
                                                                                                if (!it.eli)
                                                                                                   continue;
  andar_wale.push_back(ip);
                                                                                                 it.intro();
void addOutCampus()
                                                                                                decor();
{
                                                                                              }
  string name;
                                                                                            }
  int extra_fee;
                                                                                            else
  string tid;
                                                                                              cout << "No Insiders" << nn;
  string place;
  string pno;
                                                                                              decor();
  int eli;
                                                                                            if (bahar_wale.size())
  int mon_fees;
                                                                                            {
  decor();
                                                                                              decor();
  cout << "Enter Name: ";
                                                                                              cout << "The Outsiders are -" << endl;
  cin >> name;
                                                                                              decor();
  cout << "Enter Extra Fees : ";
                                                                                              for (auto &it : bahar_wale)
  cin >> extra_fee;
  cout << "Enter Ticket ID: ";
                                                                                                if (!it.eli)
  cin >> tid;
                                                                                                   continue;
  cout << "Enter Place : ";
                                                                                                it.intro();
  cin >> place;
                                                                                                 decor();
  cout << "Enter Phone No.: ";
                                                                                              }
  cin >> pno;
                                                                                            }
  cout << "Enter Eligibility: ";
                                                                                            else
  cin >> eli:
  cout << "Enter Primary Fees: ";
                                                                                              cout << "No Outsiders" << nn;
  cin >> mon_fees;
                                                                                              decor();
                                                                                            }
                                                                                            getch();
  OutParticipant op(name, extra_fee, tid, place, pno, eli, mon_fees);
  bahar_wale.push_back(op);
                                                                                          }
}
                                                                                          void showFees()
void showParticipants()
                                                                                            int sum1 = 0, sum2 = 0;
{
  if (andar_wale.size())
                                                                                            int extra = 0;
  {
                                                                                            if (andar_wale.size())
    decor();
    cout << "The Insiders are -" << endl;
                                                                                              decor();
                                                                                              cout << "The Insiders are -" << endl;
    for (auto &it : andar_wale)
                                                                                              decor();
                                                                                              for (auto &it : andar_wale)
       it.intro();
       decor();
                                                                                                if (!it.eli)
                                                                                                   continue;
  }
                                                                                                it.intro();
  else
                                                                                                decor();
                                                                                                sum1 += it.mon_fees;
    cout << "No Insiders" << nn;
    decor();
                                                                                            }
                                                                                            else
  if (bahar_wale.size())
                                                                                              cout << "No Insiders" << nn;
  {
    decor();
                                                                                              decor();
    cout << "The Outsiders are -" << endl;
                                                                                            }
                                                                                            cout << "Fees Collected from Insiders : " << sum1 << nn;
    decor();
    for (auto &it : bahar_wale)
                                                                                            decor();
                                                                                            if (bahar_wale.size())
       it.intro();
```

```
decor();
                                                                                      void solve()
    cout << "The Outsiders are -" << endl;
                                                                                      {
    decor();
                                                                                        system("cls");
    for (auto &it : bahar_wale)
                                                                                        Il purah_money = 0;
                                                                                        while (1)
    {
      if (!it.eli)
        continue;
                                                                                           system("cls");
      it.intro();
                                                                                           decor();
      decor();
                                                                                           cout << "Welcome to Event Management Software" << endl;
      sum2 += it.mon_fees;
                                                                                           decor();
      extra += it.fees;
                                                                                           mainMenu();
    }
                                                                                           inp(ch);
  }
                                                                                           switch (ch)
  else
                                                                                           case 1:
    cout << "No Outsiders" << nn;
                                                                                             eventMgtCore();
                                                                                             break;
    decor();
                                                                                           case 2:
  cout << "Fees Collected from Outsiders and extra fees : " << sum2 << " & "
                                                                                             pic();
<< extra << nn:
                                                                                             break:
  decor();
                                                                                           case 3:
  tot_money = sum1 + sum2 + extra;
                                                                                             studentBody();
  getch();
                                                                                             break;
}
                                                                                           case 4:
void participants()
                                                                                             sponsors();
{
                                                                                             break;
  while (1)
                                                                                           case 5:
                                                                                             participants();
  {
    system("cls");
                                                                                             break;
    decor();
                                                                                           case 6:
    cout << "Participants : " << nn;
                                                                                             for (auto &it : paisa)
    decor();
                                                                                               purah money += it.money;
    cout << "1. Add In Campus Participants" << nn;
                                                                                             purah_money += tot_money;
    cout << "2. Add Out Campus Participants" << nn;
                                                                                             cout << "Total Money: " << purah_money << nn;
    cout << "3. Show Participants" << nn;
                                                                                             getch();
    cout << "4. Show Eligible Participants" << nn;
                                                                                             break;
    cout << "5. Show Fees Generated" << nn;
                                                                                           case 7:
    cout << "6. Go Back to Homepage" << nn;
                                                                                             decor();
                                                                                             cout << "Good Bye" << nn;
    decor_choice();
                                                                                             decor();
    inp(ch);
                                                                                             home;
    switch (ch)
                                                                                             break;
                                                                                           }
                                                                                        }
    case 1:
      addInCampus();
      break;
                                                                                      int32_t main()
    case 2:
      addOutCampus();
                                                                                        solve();
      break;
                                                                                        return 0;
    case 3:
      showParticipants();
      break:
    case 4:
      showEliPart();
      break;
    case 5:
      showFees();
      break;
    case 6:
      cout << "Going to Homepage..." << nn;
      home;
      break;
 }
}
void mainMenu()
{
  cout << "Choose appropiate option : " << nn;</pre>
  cout << "1. Event Management Core Team" << nn;
  cout << "2. Professor In Charge" << nn;
  cout << "3. Student Body" << nn;
  cout << "4. Sponsors" << nn;
  cout << "5. Participants" << nn;
  cout << "6. Total Money" << nn;
  cout << "7. To Exit" << nn;
  decor_choice();
}
```

OUTPUTS

4. Show PIC

5. Go Back to Homepage

0011013	************************
// Starting Homepage ************************************	Name : Raju Department : CSE Eligible : Yes
Welcome to Event Management Software ***********************************	**************************************
Choose appropiate option: 1. Event Management Core Team 2. Professor In Charge 3. Student Body 4. Sponsors	Name: Ramesh Department: CSE Eligible: Yes ************************************
5. Participants6. Total Money7. To ExitYour Choice: 1	Eligible : Yes ************************************
//Showing Registered Events ************************************	Department: CSE Eligible: Yes ************************************
Event Management Core Team: ***********************************	Department : ME Eligible : Yes
 Show Student Body Members Show Sponsors Add Events Edit Events 	//Displaying the sponsors for the event Sponsors: ************************************
6. Show Events 7. Go Back to Homepage Your Choice : 6	 Add Sponsors Edit Sponsors Remove Sponsors Show Sponsors
**************************************	5. Go Back to Homepage Your Choice : 4 ***********************************
5th april 24 : dance krna hai ************************************	The Sponsors are - ************************************
6th april 24 : maggi khana hai ************************************	Money Invested: 1000 ***************** Name: cococola Money Invested: 10 ***********************************
//Displaying Professors in charge of the event	Name : philips Money Invested : 199 ***********************************
Professor In Charge: ***********************************	Name : citydhaba Money Invested : 10 ***********************************
3. Remove PIC	

Your Choice: 4

//Displaying the participants of the event	Name : Ramesh
**********	Extraa fees collected: 100
Participants :	Ticket No.: 12342
**********	Place : assam
1. Add In Campus Participants	Phone No. : 34342
2. Add Out Campus Participants	Eligibility : Yes
3. Show Participants	Fees Given: 1000
4. Show Eligible Participants	************
5. Show Fees Generated	//Displaying the fees generated in total
6. Go Back to Homepage	Participants :
Your Choice : 3	***********
**********	1. Add In Campus Participants
The Insiders are -	2. Add Out Campus Participants
**********	3. Show Participants
Name : Abhishek	4. Show Eligible Participants
Scholar ID : 2112016	5. Show Fees Generated
Department : CSE	6. Go Back to Homepage
Ticket No.: 1001	Your Choice : 5
Place : bihar	*************
Phone No. : 11111	The Insiders are -
Eligibility : Yes	************
Fees Given: 1000	Name : Abhishek
**********	Scholar ID : 2112016
Name : Agraz	Department : CSE
Scholar ID : 2112030	Ticket No.: 1001
Department : CSE	Place : bihar
Ticket No.: 1330	Phone No.: 11111
Place : bijni	
•	Eligibility : Yes
Phone No.: 23233	Fees Given: 1000 **********************************
Eligibility : Yes	
Fees Given: 110 ***********************************	Name : Agraz
	Scholar ID: 2112030
Name : Tushar	Department : CSE
Scholar ID : 2112064	Ticket No.: 1330
Department : CSE	Place : bijni
Ticket No.: 1201	Phone No.: 23233
Place : tezpur	Eligibility : Yes
Phone No. : 32221	Fees Given: 110 ***********************************
Eligibility : Yes	
Fees Given: 10000	Name : Tushar
**********	Scholar ID : 2112064
***********	Department : CSE
The Outsiders are - ************************************	Ticket No. : 1201
	Place : tezpur
Name : Akash	Phone No.: 32221
Extraa fees collected : 10000	Eligibility : Yes
Ticket No.: 13411	Fees Given: 10000
Place : dekhiajuli	************
Phone No. : 23454	Fees Collected from Insiders : 11110
Eligibility : Yes	*************
Fees Given : 1000000	**************

The Outsiders are - ************************************	*****************
	Management Team ************************************
Name : Akash	
Extraa fees collected : 10000	Scholar ID : 30
Ticket No.: 13411	Name : Agraz
Place : dekhiajuli	Department : CSE
Phone No.: 23454	Eligibility : Yes
Eligibility: Yes	Management ID : 3030 **********************************
Fees Given: 1000000 ******************************	
	Scholar ID : 42 Name : Hirak
Name : Ramesh Extraa fees collected : 100	
Ticket No.: 12342	Department : CSE
Place : assam	Eligibility: Yes
Phone No.: 34342	Management ID : 3042 ************************************
	Scholar ID: 73
Eligibility : Yes Fees Given : 1000	
**************************************	Name : Deepjyoti
Fees Collected from Outsiders and extra fees :	Department : CSE
1001000 & 10100	Eligibility: Yes
1001000 & 10100 *********************************	Management ID : 3073 ***********************************
//Displaying the Come Charlent Darks Town	Hospitality Team ************************************
//Displaying the Core Student Body Team	Scholar ID : 20
<u>members</u>	
***********	Name : Ray Department : CSE
Event Management Core Team :	•
***********	Eligibility : Yes Hospitality ID : 2020
1. Show PIC	**************************************
2. Show Student Body Members	Scholar ID : 23
3. Show Sponsors	Name : Rishant
4. Add Events	Department : CSE
5. Edit Events	Eligibility : Yes
6. Show Events	Hospitality ID : 2023
7. Go Back to Homepage	**************************************
Your Choice : 2	PR Team
***********	FIX ICOIII ********************************
Student Body Members :	Scholar ID : 14
***********	Name : Priyajit
	Department : CSE
Security Team	Eligibility : Yes
***********	PR ID : 4014
Scholar ID: 16	**************************************
Name : Ranjan	Scholar ID : 39
Department : CSE	Name : Anupam
Eligibility: Yes	Department : CSE
Security ID: 1016	Eligibility : Yes
***********	PR ID : 4039
Scholar ID: 18	**************************************
Name : Toppo	
Department : CSE	
Eligibility : Yes	
Security ID: 1018	