COMPUTER

SCIENCE

PROJECT

Details

Topic: Criminal Record

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Class: XII – A

Board Roll No. :

Acknowledgements

I would like to express my special thanks and gratitude to my teacher **VANDANA MA'AM** who gave me the golden opportunity to do this wonderful project on this topic, which also helped me in doing a lot of Research and I came to know about so many new things. I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame.

Arnav Tyagi

Certificate

This is hereby to certify that **ARNAV TYAGI** of Class **XII – A**, **CAMBRIDGE SCHOOL INDIRAPURAM**, has prepared the project entitled "**CRIMINAL RECORD**". The project is the result of his efforts and endeavors. The project is found worthy of acceptance.

Vandana Mittal

Cambridge School Indirapuram

Introduction

"**Criminal Record**". In this project we can:

- View criminal details
- Add a new criminal record
- Search a criminal record
- Delete a criminal record
- Update/Modify a criminal record

Bibliography

i) Wikipedia

ii) Computer Science with C++

iii) http://projects.icbse.com/

iv) www.cprogramming.com

v) Youtube

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<u>Requirements</u>

(A)HARDWARE REQUIREMENT-

An Intel based central processing unit capable of running any sort of windows operating system such as Pentium based workstation.
Minimum 64 MB RAM(128 MB Desirable) at server.

    (i)   Minimum 60 MB of free disk space for files.

    (ii)   A CD Rom drive

    (iii)   Minimum 48 MB of RAM at workstation.

(iv)   VGA 15" color monitor
        for workstation.

(B)SOFTWARE REQUIREMENT-

The software requirements are as follows.

(i)   Windows 98 or Above
(ii)   C editor
(iii)   Microsoft word

Coding

```cpp
≡  File  Edit  Search  Run  Compile  Debug  Project  Options   Window  Help
┌[■]══════════════════════════ CRIME.CPP ══════════════════════1═[↕]┐
#include<iostream.h>
#include<fstream.h>
#include<stdio.h>
#include<string.h>
#include<conio.h>
#include<stdlib.h>


class crim_rec
{
    char name[20], sex, fathr_name[20], addrs[25], offense[20], blood[5], dob[
    int reward;
    void disp();
public:
    void get();
    void wtf();
    void rff();
    void search();
    void del();
    void mod();
}
c;
└══ 6:39 ══◄▌                                                          ►┘
 F1 Help  Alt-F8 Next Msg  Alt-F7 Prev Msg  Alt-F9 Compile  F9 Make  F10 Menu
```

```
╒[■]════════════════════════ CRIME.CPP ═══════════════════════════1=[↕]╕
c;

void crim_rec::get()
{
    clrscr();
    puts("\n Enter name of criminal: ");
    gets(name);
    puts("\n Enter sex (m/f): ");
    cin>>sex;
    puts("\n Enter date of birth: ");
    gets(dob);
    puts("\n Enter blood group (Ap/An/Bp/Bn/ABp/ABn/Op/On) : ");
    gets(blood);
    puts("\n Enter father's name: ");
    gets(fathr_name);
    puts("\n Enter address: ");
    gets(addrs);
    puts("\n Enter crime commited: ");
    gets(offense);
    puts("\n Enter reward on criminal: ");
    cin>>reward;
═══════ 26:39 ═══◄■
```

```
╒[■]════════════════════════ CRIME.CPP ═══════════════════════════1=[↕]╕
    cin>>reward;
}

void crim_rec::disp()
{
    clrscr();
    cout<<"\n The record of criminal: \n ";
    cout<<"\n Name of criminal: "<<name;
    cout<<"\n Sex: "<<sex;
    cout<<"\n DOB: "<<dob;
    cout<<"\n Blood Group: "<<blood;
    cout<<"\n Father's name: "<<fathr_name;
    cout<<"\n Address: "<<addrs;
    cout<<"\n Crime: "<<offense;
    cout<<"\n Reward: "<<reward;

}

void crim_rec::wtf()
{
    ofstream ofile;
═══════ 46:39 ═══◄■
```

```cpp
    ofstream ofile;
    ofile.open("CBI", ios::app);
    get();
    ofile.write((char*)&c, sizeof(c));
    ofile.close();
}

void crim_rec::rff()
{
    ifstream ifile;
    ifile.open("CBI");
    ifile.seekg(0, ios::beg);
    ifile.read((char*)&c, sizeof(c));
    while(ifile)
    {
        disp();
        ifile.read ((char*)&c, sizeof(c));
    }
    ifile.close();
}
```

```cpp
void crim_rec::search()
{
    clrscr();
    int f=0;
    char m[20];
    ifstream ifile("CBI", ios::in);
    puts("\n Enter name of criminal which has to be searched \n ");
    gets(m);
    while(ifile.eof()!=1)
    {
        ifile.read((char*)&c,sizeof(c));
        if(strcmpi(m,name)==0)
        {
            f++;
            disp();
            break;
        }
    }
    if(f==0)
    cout<<"\n Record not found ";
```

```cpp
        cout<<"\n Record not found ";
        ifile.close();
}

void crim_rec::del()
{
    clrscr();
    char b[20];
    ifstream ifile;
    ifile.open("CBI", ios::app);
    ofstream ofile;
    ofile.open("new", ios::app);
    puts("\n Enter the name of the criminal whose records you want to delete \
    gets(b);
    ifile.seekg (0, ios::beg);
    ifile.read((char*)&c, sizeof(c));
    while(ifile)
    {
        if(strcmpi(b,name))
        {
            ofile.write((char*)&c, sizeof(c));
```

```cpp
            ofile.write((char*)&c, sizeof(c));
        }
        ifile.read((char*)&c,sizeof(c));
    }
    ifile.close();
    ofile.close();
    remove ("CBI");
    rename("new", "CBI");
    cout<<"\n Record deleted if it existed ";
}

void crim_rec::mod()
{
    clrscr();
    char d[20];
    int p;
    puts("\n Enter name of criminal whose record you want to modify \n ");
    gets(d);
    fstream f;
    f.open("CBI", ios::in|ios::out);
    f.seekg(0, ios::beg);
```

```
═[■]════════════════════════ CRIME.CPP ═══════════════════════════1═[↕]═
    f.seekg(0, ios::beg);
    f.read((char*)&c, sizeof(c));
    int a=f.tellg();
    while(! f.eof())
    {
        if (!strcmpi(d, name))
        {
            puts("\n Press 1 to change name \n Press 2 to change sex \n Press
            cin>>p;
            switch(p)
            {
            case 1:
                gets(name);
                break;
            case 2:
                cin>>sex;
                break;
            case 3:
                gets(dob);
                break;
            case 4:
```

```
═[■]════════════════════════ CRIME.CPP ═══════════════════════════1═[↕]═
                break;
            case 4:
                gets(blood);
                break;
            case 5:
                gets(fathr_name);
                break;
            case 6:
                gets(addrs);
                break;
            case 7:
                gets(offense);
                break;
            case 8:
                cin>>reward;
                break;
            }
            f.seekg(a-sizeof(c), ios::beg);
            f.write((char*)&c, sizeof(c));
        }
        f.read((char*)&c, sizeof(c));
```

```
┌[■]════════════════════════ CRIME.CPP ══════════════════════════1=[‡]┐
        f.read((char*)&c, sizeof(c));
        a=f.tellg();
    }
    f.close();
}

void main ()
{
    clrscr();
    int ch;
    char choice;
    do
    {
    clrscr();
    cout<<"\n\n\t\t\t Central Bureau of Investigation";
    cout<<"\n\n\t     ***************************************************";
    cout<<"\n\n\t\t   *         1. View criminal records              *";
    cout<<"\n\n\t\t   *         2. Add new criminal record             *";
    cout<<"\n\n\t\t   *         3. Search a criminal record            *";
    cout<<"\n\n\t\t   *         4. Delete a criminal record            *";
    cout<<"\n\n\t\t   *         5. Modify a criminal record            *";
```
├──╫══ 186:39 ══◄□

```
┌[■]════════════════════════ CRIME.CPP ══════════════════════════1=[‡]┐
    cout<<"\n\n\t\t   *         5. Modify a criminal record            *";
    cout<<"\n\n\t\t   *         6. Exit                                 *";
    cout<<"\n\n\t\t   ***************************************************";
    cout<<"\n\n Enter your choice: ";
    cin>>ch;


    switch(ch)
    {
    case 1:
        c.rff();
        break;
    case 2:
        c.wtf();
        break;
    case 3:
        c.search();
        break;
    case 4:
        c.del();
        break;
```
├──╫══ 206:39 ══◄□

```
                                    CRIME.CPP
        break;
    case 5:
        c.mod();
        break;
    case 6:
        exit(0);
    default:
        {
        cout<<"\n\n error! ";
        }
        break;
    }
    cout<<"\n\n Want to continue ? (y/n) \n ";
    cin>>choice;
    }
    while(choice=='y');
    cout<<"\n\n Good bye ";
}
```

226:39

Output

```
             Central Bureau of Investigation

     **************************************************
     *            1. View criminal records           *

     *            2. Add new criminal record          *

     *            3. Search a criminal record         *

     *            4. Delete a criminal record         *

     *            5. Modify a criminal record          *

     *            6. Exit                             *

     **************************************************

 Enter your choice: 2_
```

```
  Enter name of criminal:
 Aniket Sharma

  Enter sex (m/f):
 m

  Enter date of birth:
 6/9/1995

  Enter blood group (Ap/An/Bp/Bn/ABp/ABn/Op/On) :
 Bp

  Enter father's name:
 Rahul Sharma

  Enter address:
 69 G-4 sector 62 noida

  Enter crime commited:
 Road rage

  Enter reward on criminal:
 0
```

```
 Enter sex (m/f):
m

 Enter date of birth:
6/9/1995

 Enter blood group (Ap/An/Bp/Bn/ABp/ABn/Op/On) :
Bp

 Enter father's name:
Rahul Sharma

 Enter address:
69 G-4 sector 62 noida

 Enter crime commited:
Road rage

 Enter reward on criminal:
0


 Want to continue ? (y/n)
 y
```

```
                Central Bureau of Investigation

        **************************************************
        *                                                *
        *       1. View criminal records                 *
        *                                                *
        *       2. Add new criminal record               *
        *                                                *
        *       3. Search a criminal record              *
        *                                                *
        *       4. Delete a criminal record              *
        *                                                *
        *       5. Modify a criminal record              *
        *                                                *
        *       6. Exit                                   *
        *                                                *
        **************************************************
Enter your choice: 1
```

```
The record of criminal:

Name of criminal: Aniket Sharma
Sex: m
DOB: 6/9/1995
Blood Group: Bp
Father's name: Rahul Sharma
Address: 69 G-4 sector 62 noida
Crime: Road rage
Reward: 0

Want to continue ? (y/n)
_
```

```
           Central Bureau of Investigation

        **************************************************
        *         1. View criminal records          *

        *         2. Add new criminal record         *

        *         3. Search a criminal record        *

        *         4. Delete a criminal record        *

        *         5. Modify a criminal record        *

        *         6. Exit                            *

        **************************************************
Enter your choice: 3_
```

```
 Enter name of criminal which has to be searched

Aniket Sharma_
```

```
 The record of criminal:

Name of criminal: Aniket Sharma
Sex: m
DOB: 6/9/1995
Blood Group: Bp
Father's name: Rahul Sharma
Address: 69 G-4 sector 62 noida
Crime: Road rage
Reward: 0

Want to continue ? (y/n)
y
```

```
 Enter name of criminal which has to be searched
Karan Rana
 Record not found
 Want to continue ? (y/n)
 y
```

```
            Central Bureau of Investigation

       ************************************************
       *        1. View criminal records         *

       *        2. Add new criminal record        *

       *        3. Search a criminal record       *

       *        4. Delete a criminal record       *

       *        5. Modify a criminal record       *

       *        6. Exit                           *

       ************************************************

 Enter your choice: 5_
```

```
   Enter name of criminal whose record you want to modify

Aniket Sharma
```

```
   Enter name of criminal whose record you want to modify

Aniket Sharma

   Press 1 to change name
   Press 2 to change sex
   Press 3 to change date of birth
   Press 4 to change blood group
   Press 5 to change father's name
   Press 6 to change address
   Press 7 to change crime committed
   Press 8 to change reward on criminal

   Also enter the modified detail

4
Ap


   Want to continue ? (y/n)
   y
```

```
                 Central Bureau of Investigation

        **********************************************
        *          1. View criminal records         *

        *          2. Add new criminal record       *

        *          3. Search a criminal record      *

        *          4. Delete a criminal record      *

        *          5. Modify a criminal record      *

        *          6. Exit                          *

        **********************************************

    Enter your choice: 3_
```

```
   Enter name of criminal which has to be searched

 Aniket Sharma_
```

```
The record of criminal:

Name of criminal: Aniket Sharma
Sex: m
DOB: 6/9/1995
Blood Group: Ap
Father's name: Rahul Sharma
Address: 69 G-4 sector 62 noida
Crime: Road rage
Reward: 0

Want to continue ? (y/n)
y
```

```
            Central Bureau of Investigation

        ************************************************
        *        1. View criminal records          *

        *        2. Add new criminal record        *

        *        3. Search a criminal record        *

        *        4. Delete a criminal record        *

        *        5. Modify a criminal record        *

        *        6. Exit                            *

        ************************************************
Enter your choice: 4
```

```
   Enter the name of the criminal whose records you want to delete
Aniket Sharma

 Record deleted if it existed

 Want to continue ? (y/n)
 y
```

```
                Central Bureau of Investigation

        **************************************************
        *          1. View criminal records          *

        *          2. Add new criminal record          *

        *          3. Search a criminal record          *

        *          4. Delete a criminal record          *

        *          5. Modify a criminal record          *

        *          6. Exit                              *

        **************************************************
 Enter your choice: 3_
```

```
 Enter name of criminal which has to be searched

Aniket Sharma_
```

```
 Enter name of criminal which has to be searched

Aniket Sharma

 Record not found

 Want to continue ? (y/n)
 n

 Good Bye !!
```