

**NITTE MEENAKSHI INSTITUTE OF
TECHNOLOGY**



BANGALORE-560064

**DEPARTMENT OF INFORMATION SCIENCE AND
ENGINEERING**

**Object Oriented Programming Mini
Project:**

“Car Rental MANAGEMENT SYSTEM”



Prepared By:

Tanisha Bhadani – 1NT20IS175

Saurabh Tripathi – 1NT20IS148

Nitish Kumar – 1NT20IS102

Shivam Maurya - 1NT20IS155

CERTIFICATE

This is to certify that the Course Project “Car Rental MANAGEMENT SYSTEM” is an authentic work carried out by Tanisha Bhadani(1NT20IS175), Saurabh Tripathi (1NT20IS148), Nitish Kumar (1NT20IS102), Shivam Maurya (1NT20IS102) bona fide students of Nitte Meenakshi Institute of Technology, Bangalore in partial fulfillment for the award of the degree of Bachelor of Engineering in INFORMATION SCIENCE AND ENGINEERING of Visvesvaraya Technological University, Belagavi during the academic year 2021-2022.

ABSTRACT

The client uses MS Excel, and maintains their records, however it is not possible for them to share the data from multiple systems in a multi user environment, there is a lot of duplicate work, and chance of mistake. When the records are changed they need to update each and every excel file. There is no option to find and print previous saved records. There is no security; anybody can access any report and sensitive data, also no reports to summary report. This Car Rental System is used to overcome the entire problem which they are facing currently, and make complete atomization of manual systems to computerized systems.

Code:

```
#include <iostream>
#include <fstream>
#include <conio.h>
#include <stdlib.h>
#include <unistd.h>
#include <dos.h>
#include <iomanip>
// Brought To You by code-projects.org
// included required library files
using namespace std;
```

```

class customer // customer class
{
private:
public:
    string customername;
    string carmodel;
    string carnumber;
    char data;
    // variables defined in this class in public mode.
};
class rent : public customer // inhereted class from
customer class
{
public:
    int days = 0, rentalfee = 0; // additional int
vatiabales defined
    void data()
    {
        int login();
        login();
        cout << "\t\t\t\tPlease Enter your Name: "; //
taking data from the user
        cin >> customername;
        cout << endl;
        do
        {
            cout << "\t\t\t\tPlease Select a Car" << endl; //
giving user a choice to select among three different
models
            cout << "\t\t\t\tEnter 'A' for Tesla 2011." << endl;
            cout << "\t\t\t\tEnter 'B' for Hyundai 2015." <<
endl;
            cout << "\t\t\t\tEnter 'C' for Ford 2017." << endl;
            cout << endl;
            cout << "\t\t\t\tChoose a Car from the above
options: ";
            cin >> carmodel;
            cout << endl;
            cout <<
"-----"
-----" << endl;
            if (carmodel == "A")
            {
                system("CLS");

                cout << "You have choosed Tesla model
2011" << endl;
                ifstream inA("A.txt"); // displaying details of

```

```

model A
    char str[200];
    while (inA)
    {
        inA.getline(str, 200);
        if (inA)
            cout << str << endl;
    }
    sleep(2);
}
if (carmodel == "B")
{
    system("CLS");

    cout << "You have choosed Hyundai model
2015" << endl;
    ifstream inB("B.txt"); // displaying details of
model B
    char str[200];
    while (inB)
    {
        inB.getline(str, 200);
        if (inB)
            cout << str << endl;
    }
    sleep(2);
}
if (carmodel == "C")
{
    system("CLS");
    cout << "You have choosed Ford model 2017"
<< endl;
    ifstream inC("C.txt"); // displaying details of
model C
    char str[200];
    while (inC)
    {
        inC.getline(str, 200);
        if (inC)
            cout << str << endl;
    }
    sleep(2);
}
if (carmodel != "A" && carmodel != "B" &&
carmodel != "C")

    cout << "Invaild Car Model. Please try again!"
<< endl;

```

[illegible]

```

cout << "\t\t\t | Customer Name:"
    << "-----|" << setw(10) <<
customername << " |" << endl;
fout << "\t\t\t | Customer Name:"
    << "-----|" << setw(10) <<
customername << " |" << endl;
cout << "\t\t\t | Car Model ::"
    << "-----|" << setw(10) <<
carmodel << " |" << endl;
fout << "\t\t\t | Car Model ::"
    << "-----|" << setw(10) <<
carmodel << " |" << endl;
cout << "\t\t\t | Car No. ::"
    << "-----|" << setw(10) <<
carnumber << " |" << endl;
fout << "\t\t\t | Car No. ::"
    << "-----|" << setw(10) <<
carnumber << " |" << endl;
cout << "\t\t\t | Number of days ::"
    << "-----|" << setw(10) << days << " |"
<< endl;
fout << "\t\t\t | Number of days ::"
    << "-----|" << setw(10) << days << " |"
<< endl;
cout << "\t\t\t | Your Rental Amount is ::"
    << "-----|" << setw(10) << rentalfee << " |"
<< endl;
fout << "\t\t\t | Your Rental Amount is ::"
    << "-----|" << setw(10) << rentalfee << " |"
<< endl;
cout << "\t\t\t | Caution Money ::"
    << "-----|" << setw(10) << "0"
    << " |" << endl;
fout << "\t\t\t | Caution Money ::"
    << "-----|" << setw(10) << "0"
    << " |" << endl;
cout << "\t\t\t | Advanced ::"
    << "-----|" << setw(10) << "0"
    << " |" << endl;
fout << "\t\t\t | Advanced ::"
    << "-----|" << setw(10) << "0"
    << " |" << endl;
cout << "\t\t\t _____" <<
endl;
cout << "\n";
fout << "\t\t\t _____" << endl;
fout << "\n";
cout << "\t\t\t | Total Rental Amount is ::"

```

```

        << "-----|" << setw(10) << rentalfee << " |"
<< endl;
    fout << "\t\t| Total Rental Amount is :."
        << "-----|" << setw(10) << rentalfee << " |"
<< endl;
    cout << "\t\t      _____" <<
endl;
    cout << "\t\t      # This is a computer
generated invoice and it does not" << endl;
    cout << "\t\t      require an authorised signature
#" << endl;
    cout << " " << endl;
    cout << "\t\t
/////////////////////////////////////" << endl;
    cout << "\t\t      You are advised to pay up the
amount before due date." << endl;
    cout << "\t\t      Otherwise penelty fee will be
applied" << endl;
    cout << "\t\t
/////////////////////////////////////" << endl;
    fout.close();
    int f;
    system("PAUSE");

    system("CLS");

    ifstream inf("thanks.txt");

    char str[300];

    while (inf)
    {
        inf.getline(str, 300);
        if (inf)
            cout << str << endl;
    }
    inf.close();
};

class welcome // welcome class
{
public:
    int welcum()
    {
        ifstream in("welcome.txt"); // displaying welcome
ASCII image text on output screen fn1353

        if (!in)

```



```
{
    cout << "Cannot open input file.\n";
}
char str[1000];
while (in)
{
    in.getline(str, 1000); // delim defaults to '\n' cp
    if (in)
        cout << str << endl;
}
in.close();
sleep(1);
cout << "\nStarting the program please wait....."
<< endl;
sleep(1);
cout << "\nloading up files....." << endl;
sleep(1);    // function which waits for (n)
seconds
system("CLS"); // clears screen
}
};
int main()
{
    welcome obj1; // object created for welcome class
    obj1.welcum(); // welcum function is called
    rent obj2;
    // object created for rent class and further member functions are called
    obj2.data();
    obj2.calculate();
    obj2.showrent();

    return 0; // end of the program
}

int login()
{
    string pass = "";
    char ch;
    cout << "\n\n\n\n\n\n\n\n\t\t\t\t\t CAR RENTAL SYSTEM \n\n";
    cout << "\t\t\t\t\t-----";
    cout << "\n\t\t\t\t\t LOGIN \n";
    cout << "\t\t\t\t\t-----\n\n";
    cout << "\t\t\t\t\tEnter Password: ";
    ch = _getch();
    while (ch != 13)
```

```

{ // character 13 is enter
  pass.push_back(ch);
  cout << '*';
  ch = _getch();
}
if (pass == "pass")
{
  cout << "\n\n\t\t\t\t\tAccess Granted! \n";
  system("PAUSE");
  system("CLS");
}
else
{
  cout << "\n\n\t\t\t\t\tAccess
Aborted...\n\t\t\t\t\tPlease Try Again\n\n";
  system("PAUSE");
  system("CLS");
  login();
}
}
}

```

OUTPUT

Car Rental - Customer Invoice		
////////////////////////////////////		
Invoice No. :-----	#Cnb81353	
Customer Name:-----	shiv	
Car Model :-----	A	
Car No. :-----	34	
Number of days :-----	56	
Your Rental Amount is :-----	3136	
Caution Money :-----	0	
Advanced :-----	0	
<hr/>		
Total Rental Amount is :-----	3136	

CONCLUSION:

We hereby conclude that the project submitted to the NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BANGALORE, is a record of an original work done by us under the guidance of Mainak Chakraborty, Prof. Of Information Science & Engineering branch, and this project work is submitted in the partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Information Science and Engineering. The results embodied in this have not

been submitted to any other University or Institute
for the award of any degree or diploma.

THANK YOU