JOB PORTAL SYSTEM

PROJECT REPORT

Submitted by

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BONAFIDE CERTIFICATE

Certified that this Project Report titled **"**Job Portal System**"** is the bonafide work done by Kshitij Sinha (RA2211026010007), Prabhu Mohanty(RA2211026010008), Anmol Purohit(RA2211026010010), Aashmit Bhasin (RA2211026010043) who completed the project under my supervision. Certified further, that to the best of my knowledge, the work reported herein does not form part of any other work

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ABSTRACT

The project objective is to find jobs online. The Job Management System is an Internet based application that can be accessed throughout the Net and can be accessed by anyone who has a net connection. This application will reserve the jobs. This online job management system provides a website for a company where any user of internet can access it. User is required to login to the system. Finding jobs can really be difficult. The website provides complete information regarding currently applicable jobs on all the screens with all the details needed. Our online job management system is one of the best opportunities for those who cannot afford enough time to find jobs easily. People can apply for jobs online at any time of day or night. Our management system also providesoption to cancel for the jobs which were applied previously.

Welcome to newly designed website where finding job is a faster, cleanerand a tad more personal website, specially designed to make your searching experience better. Log on, navigate and find out for yourselves and if time permits leave your valuable feedback.

Customers may view the specifications of any job at any time and may apply for any job as needed. The program automatically searches for other jobs related to the other job. When a visitor decides to finally apply for the job, the order information including the company's name, address

and instructions are stored in the database securely and has been saved. You need to register a new user whenever you have first visited or site then for future it will be stored in our database permanently and youcan find job at any time you want with this username and password.

PROBLEM STATEMENT

The purpose of designing the online job portal is to give the job seekers a platform for finding a right and a satisfactory job according to their qualification. It also connects the job seekers with the major agencies.

It also provides Jobs portal for Job Seekers to submit their CV and apply for job posting and Employer can select best Employees from Available CV based on their payment option selection. This is basically a Job portal where job Seeker applies for jobs and employer post jobs and select prospective applicant.

Job portal is prepared for provide all categories of job and help to get various type of job. The main purpose of job portal is to provide the facility to job seekers for getting the quick job. So, it enables applicants to search for jobs in a convenient manner and to enable employers to find suitable candidates.

OBJECTIVE

The objective of the application is to develop a system using which job applicants and recruiters can communicate with each other. An Online Job Portal is an application where the job seekers can register themselves at the website and search jobs which are suitable for them where as the employers register with the website and put up jobs whichare vacant at their company.

The Online Job Portal System is a package to be used by agencies to improve the efficiency of business. The Online Job Portal System to be developed benefits greatly the members. The system provides jobs catalogue and information to members and helps them decide on the jobs to apply. The Admin and employers can keep the jobs catalogue updated all the time so that the Job seekers get the updated information.

CODE:

```
#include<iostream>
#include<fstream>
#include<iomanip>
#include<windows.h>
using namespace std;

void menu();//main menu function prototype

class ManageMenu
{
protected:
    string userName; //hide admin name

public:

    //virtual void menu(){}

    ManageMenu()
    {
        system("color 0A"); //change terminal color
        cout << "\n\n\n\n\n\n\n\n\n\t  Enter Your Name to Continue as an Admin: ";
        cin >> userName;
        system("CLS");
        menu(); //call to main function to load after executing the constructr
    }

    ~ManageMenu(){} //de
};

class Candidate
{
public:
    string name, gender, address;
    int age, mobileNo, menuBack;
    static int cusID;
    char all[999];

    void getDetails()
    {
        ofstream out("old-customers.txt", ios::app); //open file using append mode to
write customer details
        {
            cout << "\nEnter Candidate ID: ";
            cin >> cusID;
            cout << "Enter Name: ";
            cin >> name;
            cout << "Enter Age: ";
```

```
cin >> age;
            cout << "Enter Mobile Number: ";
            cin >> mobileNo;
            cout << "Address: ";
            cin >> address;
            cout << "Gender: ";
            cin >> gender;
        }
        out << "\nCustomer ID: " << cusID << "\nName: " << name << "\nAge: " << age <<
"\nMobile Number: " << mobileNo << "\nAddress: " << address << "\nGender: " << gender <<
endl;
        out.close();
        cout << "\nSaved \nNOTE: We save your details record for future purposes.\n" <<
endl;
    }
    void showDetails() //function to show old customer records
    {
        ifstream in("old-customers.txt");
        {
            if(!in)
            {
                cout << "File Error!" << endl;
            }
            while(!(in.eof()))
            {
                in.getline(all, 999);
                cout << all << endl;
            }
            in.close();
        }
    }
};

int Candidate::cusID;

class JobType
{
public:
    int jobChoice;
    float growth;
    static float lastGrowth;

    void jobDetails()
    {
        cout << "We collaborated with fastest, safest, and smartest recruitment service
around the country" << endl;
        cout << "-----------YSM jobs-----------\n" << endl;
        cout << "1. Work from home " << endl;
```

```
cout << "2. Onsite work" << endl;

        cout << "\nEnter another key to back or," << endl;

        cout << "\nTo calculate the growth of your journey.." << endl;
        cout << "Enter which kind of job you need: ";
        cin >> jobChoice;


        int hireJob;

        if(jobChoice == 1){
            growth = 10.0;
            cout << "\nYour growth percentage will be " << growth << " %" << endl;
            cout << "Press 1 to select this type of job:    ";
            cout << "Press 2 to select another type of job: ";
            cin >> hireJob;
            system("CLS");
            if (hireJob == 1){
                lastGrowth = growth;
                cout << "\nYou have successfully selected work from home" << endl;
                cout << "Goto Menu to take the confirmation" << endl;
            }
            else if(hireJob == 2){
                jobDetails();
            }
            else{
                cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" <<
endl;
                Sleep(1100);
                system("CLS");
                jobDetails();
            }
        }
        else if(jobChoice == 2){
            growth = 12.50;
            cout << "\nYour growth will be " << growth << " %" << endl;
            cout << "\n The cities to work in will be: "<<endl;
            cout << "\n 1. Bangalore"<< "\n 2. Chennai"<< "\n 3. Mumbai" << "\n 4. Pune"
<< "\n 5. Hyderabad"<< endl;
            cout << "Press 1 to select this job type: or ";
            cout << "Press 2 to select another type: ";
            cin >> hireJob;
            system("CLS");
            if (hireJob == 1){
                lastGrowth = growth;
```

```
cout << "\nYou have successfully selected O site work" << endl;
                cout << "Goto Menu to take the confirmation" << endl;
            }
            else if(hireJob == 2){
                jobDetails();
            }
            else{
                cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" <<
endl;
                Sleep(1100);
                system("CLS");
                jobDetails();
            }
        }
        else{
            cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" << endl;
            Sleep(1100);
            system("CLS");
            menu();
        }

        cout << "\nPress 1 to Redirect Main Menu: ";
        cin >> hireJob;
        system("CLS");
        if(hireJob == 1){
            menu();
        }
        else{
            menu();
        }
    }
};

float JobType::lastGrowth;

class CompanyList
{
public:
    int choiceCompany;int choiceComp;
    int postChoice1;
    int gotoMenu;
    static float growthP;

    void company()
    {
        string compNo[] = {"Product based company", "Service based company"};
```

```
for(int a = 0; a < 2; a++)
        {
            cout << (a+1) << compNo[a] << endl;
        }
        cin >> choiceComp;
        if(choiceComp==1){
        cout << "\nCurrently we collaborated with above companies!" << endl;
        cout << "\n 1. Adobe" << "\n 2. microsoft" << " \n 3. google"<< endl;

        cout << "Press any key to back or\nEnter Number of the company you want to book or see details: ";
        cin >> choiceCompany;

        system("CLS");

        if(choiceCompany == 1){
            cout << "-------WELCOME TO Adobe-------\n" << endl;

            cout << "We welcome you in our company. We wish you all the best in your career" << endl;

            cout << "Packages/posts/jobs offered by Adobe:\n" << endl;

            cout << "1. Junior" << endl;
            cout << "\Developer" << endl;
            cout << "2. Assistant" << endl;
            cout << "\Manager" << endl;
            cout << "3. HR" << endl;



            cout << "\nPress another key to back or\nEnter Package number you want to book: ";
            cin >> postChoice1;

            if (postChoice1 == 1){
                growthP = 5.00;//growth
                cout << "\nYou have successfully registered" << endl;
                cout << "Goto Menu and take the form" << endl;
            }
            else if (postChoice1 == 2){
                growthP = 10.00;
                cout << "\nYou have successfully registered" << endl;
                cout << "Goto Menu and take the form" << endl;
            }
            else if (postChoice1 == 3){
                growthP = 1.50;
                cout << "\nYou have successfully registered" << endl;
                cout << "Goto Menu to take the form" << endl;
```

```
}
            else{
                cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" <<
endl;
                Sleep(1100);
                system("CLS");
                company();

            }

            cout << "\nPress 1 to Redirect Main Menu: ";
            cin >> gotoMenu;
            system("CLS");
            if(gotoMenu == 1){
                menu();
            }
            else{
                menu();
            }
        }
        else if(choiceCompany == 2){
            cout << "-------WELCOME TO Microsoft-------\n" << endl;

            cout << " Welcome to microsoft world. We welcome you and wish you the very
best for your future" << endl;

            cout << "Packages Offered by microsoft:\n" << endl;

            cout << "1. Junior" << endl;
            cout << "\t Developer" << endl;//growth % value
            cout << "2. Assistant"<< endl;
            cout << "\t Manager" << endl;
            cout << "3. HR" << endl;


            cout << "\nPress another key to back or\nEnter Package number you want to
register: ";
            cin >> postChoice1;

            if (postChoice1 == 1){
                growthP = 15.00;
                cout << "You have successfully registered " << endl;//post name
                cout << "Goto Menu and take the form" << endl;
            }
            else if (postChoice1 == 2){
                growthP = 10.00;
                cout << "You have successfully registered" << endl;
                cout << "Goto Menu and take the form" << endl;
```

```
}
            else if (postChoice1 == 3){
                growthP = 5.00;
                cout << "You have successfully registered" << endl;
                cout << "Goto Menu and take the form" << endl;
            }
            else{
                cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" <<
endl;
                Sleep(1100);
                system("CLS");
                company();
            }

            cout << "\nPress 1 to Redirect Main Menu: ";
            cin >> gotoMenu;
            system("CLS");
            if(gotoMenu == 1){
                menu();
            }
            else{
                menu();
            }
        }
        else if(choiceCompany == 3){
            cout << "-------WELCOME TO Google-------\n" << endl;
            cout << "Welcome to google group. We wish you all the best for your future
ambitions" << endl;
            cout << "1. Junior" << endl;
            cout << "\t Developer" << endl;//growth % value


            cout << "\nPress another key to back or\n Enter the pacakge number 1 to
register: ";
            cin >> postChoice1;

            if (postChoice1 == 1){
                growthP = 5.00;
                cout << "You have successfully registered" << endl;
                cout << "Goto Menu and take the form" << endl;
            }
            else{
                cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" <<
endl;
                Sleep(1100);
                system("CLS");
                company();
            }
            cout << "\nPress 1 to Redirect Main Menu: ";
```

```
cin >> gotoMenu;
            system("CLS");
            if(gotoMenu == 1){
                menu();
            }
            else{
                menu();
            }
        }
        else{
            cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" << endl;
            Sleep(1100);
            system("CLS");
            menu();
        }
    }
    else if (choiceComp==2){
        cout << "\nCurrently we collaborated with above !" << endl;
        cout << "\n 1. TCS" << "\n 2. Wipro" << " \n 3. Infosys"<< endl;

        cout << "Press any key to back or\nEnter Number of the hotel you want to book or
see details: ";
        cin >> choiceCompany;

        system("CLS");

        if(choiceCompany == 1){
            cout << "-------WELCOME TO TCS-------\n" << endl;

            cout << "We welcome you to the TCS family and wish you all the luck four
future" << endl;

            cout << "Packages offered by TCS:\n" << endl;

            cout << "1. Junior" << endl;
            cout << "\t Developer" << endl;//growth % value
            cout << "2. Assistant"<< endl;
            cout << "\t Manager" << endl;
            cout << "3. HR" << endl;


            cout << "\nPress another key to back or\nEnter Package number you want to
register: ";
            cin >> postChoice1;

            if (postChoice1 == 1){
                growthP = 5.00;
                cout << "\nYou have successfully registered" << endl;
```

```
cout << "Goto Menu and take the form" << endl;
            }
            else if (postChoice1 == 2){
                growthP = 10.00;
                cout << "\nYou have successfully registered" << endl;
                cout << "Goto Menu and  take  the form" << endl;
            }
            else if (postChoice1 == 3){
                growthP = 15.00;
                cout << "\nYou have successfully registered" << endl;
                cout << "Goto Menu to  take the form"  << endl;
            }
            else{
                cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" <<
endl;
                Sleep(1100);
                system("CLS");
                company();

            }

            cout << "\nPress 1 to Redirect Main Menu: ";
            cin >> gotoMenu;
            system("CLS");
            if(gotoMenu == 1){
                menu();
            }
            else{
                menu();
            }
        }
        else if(choiceCompany == 2){
            cout << "-------WELCOME TO wipro-------\n" << endl;

            cout << "Welcome to Wipro. We are delighted to see you here." << endl;

            cout << "Packages Offered by Wipro:\n" << endl;

             cout << "1. Junior" << endl;
            cout << "\t Developer" << endl;//growth % value
            cout << "2. Assistant"<< endl;
            cout << "\t Manager" << endl;
            cout << "3. HR" << endl;

            cout << "\nPress another key to back or\nEnter Package number you want to
book: ";
            cin >> postChoice1;
```

```
if (postChoice1 == 1){
                growthP = 15.00;
                cout << "You have successfully registered" << endl;
                cout << "Goto Menu and take the form" << endl;
            }
            else if (postChoice1 == 2){
                growthP = 10.00;
                cout << "You have successfully bo" << endl;
                cout << "Goto Menu and take the receipt" << endl;
            }
            else if (postChoice1 == 3){
                growthP = 5.00;
                cout << "You have successfully registered" << endl;
                cout << "Goto Menu and take the form" << endl;
            }
            else{
                cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" <<
endl;
                Sleep(1100);
                system("CLS");
                company();
            }

            cout << "\nPress 1 to Redirect Main Menu: ";
            cin >> gotoMenu;
            system("CLS");
            if(gotoMenu == 1){
                menu();
            }
            else{
                menu();
            }
        }
        else if(choiceCompany == 3){
            cout << "-------WELCOME TO Infosys-------\n" << endl;
            cout << "We welcome you on behalf of whole Infosys family" << endl;
            cout << "1. Junior" << endl;
            cout << "\t Developer" << endl;//growth % value
            ;

            cout << "\nPress another key to back or\nPress 1 to register: ";
            cin >> postChoice1;

            if (postChoice1 == 1){
                growthP = 5.00;
                cout << "You have successfully booked" << endl;
```

```
cout << "Goto Menu and take the receipt" << endl;
            }
            else{
                cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" <<
endl;
                Sleep(1100);
                system("CLS");
                company();
            }
            cout << "\nPress 1 to Redirect Main Menu: ";
            cin >> gotoMenu;
            system("CLS");
            if(gotoMenu == 1){
                menu();
            }
            else{
                menu();
            }
        }
        else{
            cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" << endl;
            Sleep(1100);
            system("CLS");
            menu();
        }
    }
}};

float CompanyList::growthP;

class Progress : public CompanyList, JobType, Candidate //Multiple Inheritance of some
other classes to Chargers
{

public:

    void printBill()
    {
        ofstream outf("receipt.txt"); //receipt for bought items
        {
            outf << "--------YRM job portal--------" << endl;
            outf << "--------------------Receipt--------------------" << endl;
            outf << "_____________________________________" << endl;

            outf << "Candidate ID: " << Candidate::cusID << endl << endl;
            outf << "Description\t\t Total" << endl;
```

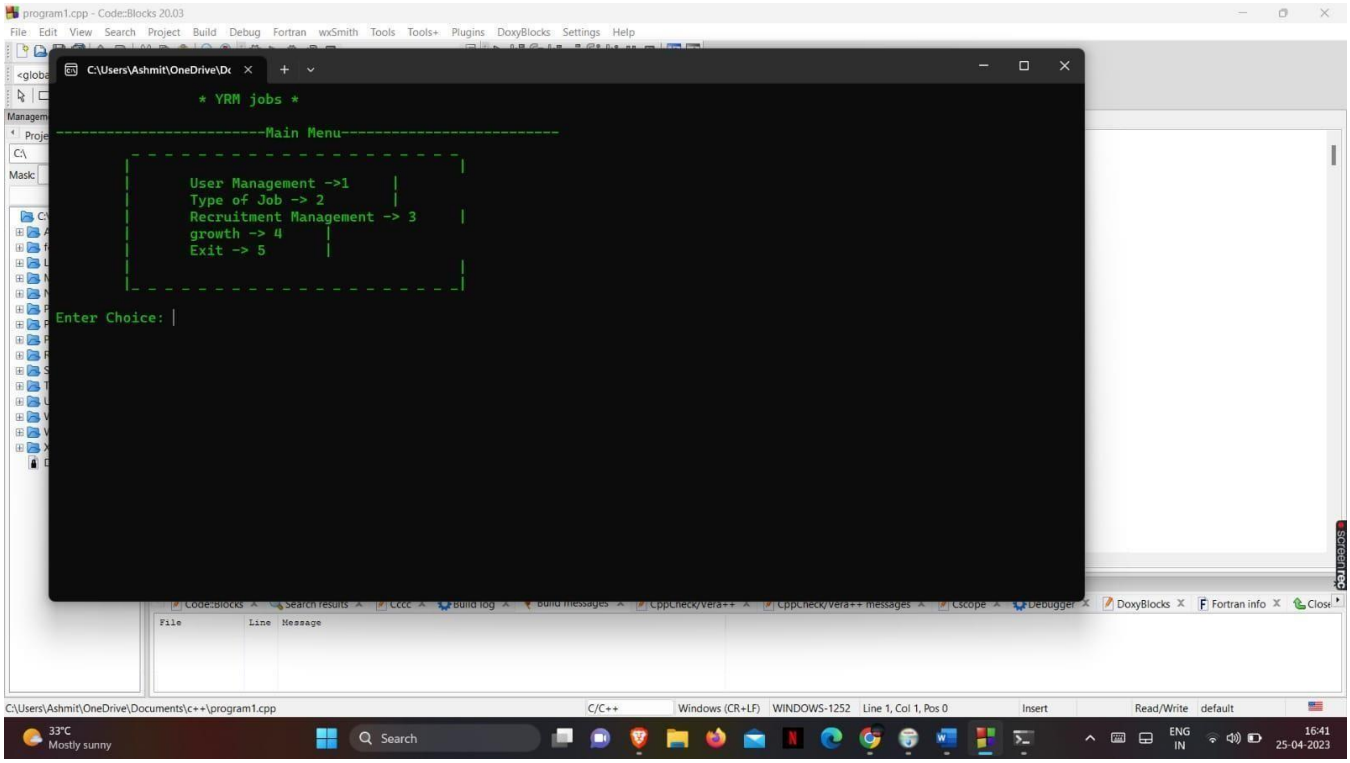
```
outf << "company growth:\t\t " << fixed << setprecision(2) << CompanyList::growthP <<
endl;
            outf << "job type growth:\t\t " << fixed << setprecision(2) <<
JobType::lastGrowth << endl;

            outf << "_____" << endl;
            outf << "Total Growth:\t\t " << fixed << setprecision(2) <<
CompanyList::growthP+JobType::lastGrowth << endl;
            outf << "_____" << endl;
            outf << "------------THANK YOU------------" << endl;
        }
        outf.close();
        //cout << "Your receipt printed, please get it from the file saved path:D" <<
endl;
    }

    void showBill()
    {
        ifstream inf("receipt.txt");
        {
            if(!inf)
            {
                cout << "File Error!" << endl;
            }
            while(!(inf.eof()))
            {
                inf.getline(all, 999);
                cout << all << endl;
            }
        }
        inf.close();
    }
};

void menu() //menu function contain main menu
{

    int mainChoice;
    int inChoice;
    int gotoMenu;
    cout << "\t\t      * YRM jobs *\n" << endl;
    cout << "                              Main Menu                                " << endl;

    cout << "\t _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ " << endl;
    cout << "\t|\t\t\t\t\t\t|" << endl;
    //cout << "\t|\tAgency System Management -> 0" << endl;
    cout << "\t|\tUser Management         ->1\t|" << endl;
```

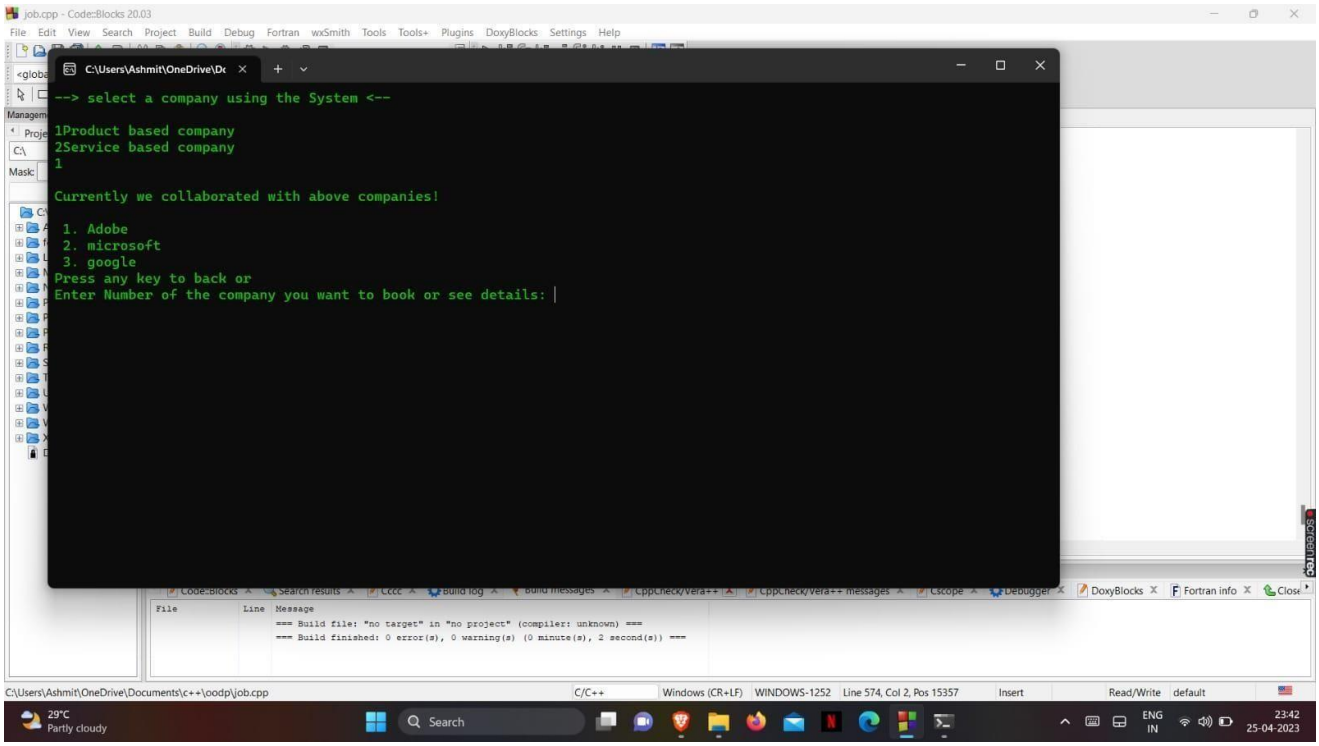
```
cout << "\t|\tType of Job              -> 2\t|" << endl;
    cout << "\t|\tRecruitment Management -> 3\t|" << endl;
    cout << "\t|\tgrowth                 -> 4\t|" << endl;
    cout << "\t|\tExit                   -> 5\t|" << endl;
    cout << "\t|\t\t\t\t\t|" << endl;
    cout << "\t|_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _|" << endl;

    cout << "\nEnter Choice: ";
    cin >> mainChoice;

    system("CLS");

    Candidate a2; //creating objects
    JobType a3;
    CompanyList a4;
    Progress a5;

    /*if(mainChoice == 0){

    }*/
    if(mainChoice == 1){
        cout << "------Candidates------\n" << endl;
        cout << "1. Enter New Candidate"<< endl;
        cout << "2. See Old Candidates"<< endl;

        cout << "\nEnter choice: ";
        cin >> inChoice;

        system("CLS");
        if(inChoice == 1){
            a2.getDetails();
        }
        else if(inChoice == 2){
            a2.showDetails();
        }
        else{
            cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" << endl;
            Sleep(1100);
            system("CLS");
            menu();
        }
        cout << "Press 1 to Redirect Main Menu: ";
        cin >> gotoMenu;
        system("CLS");
        if(gotoMenu == 1){
            menu();
        }
```

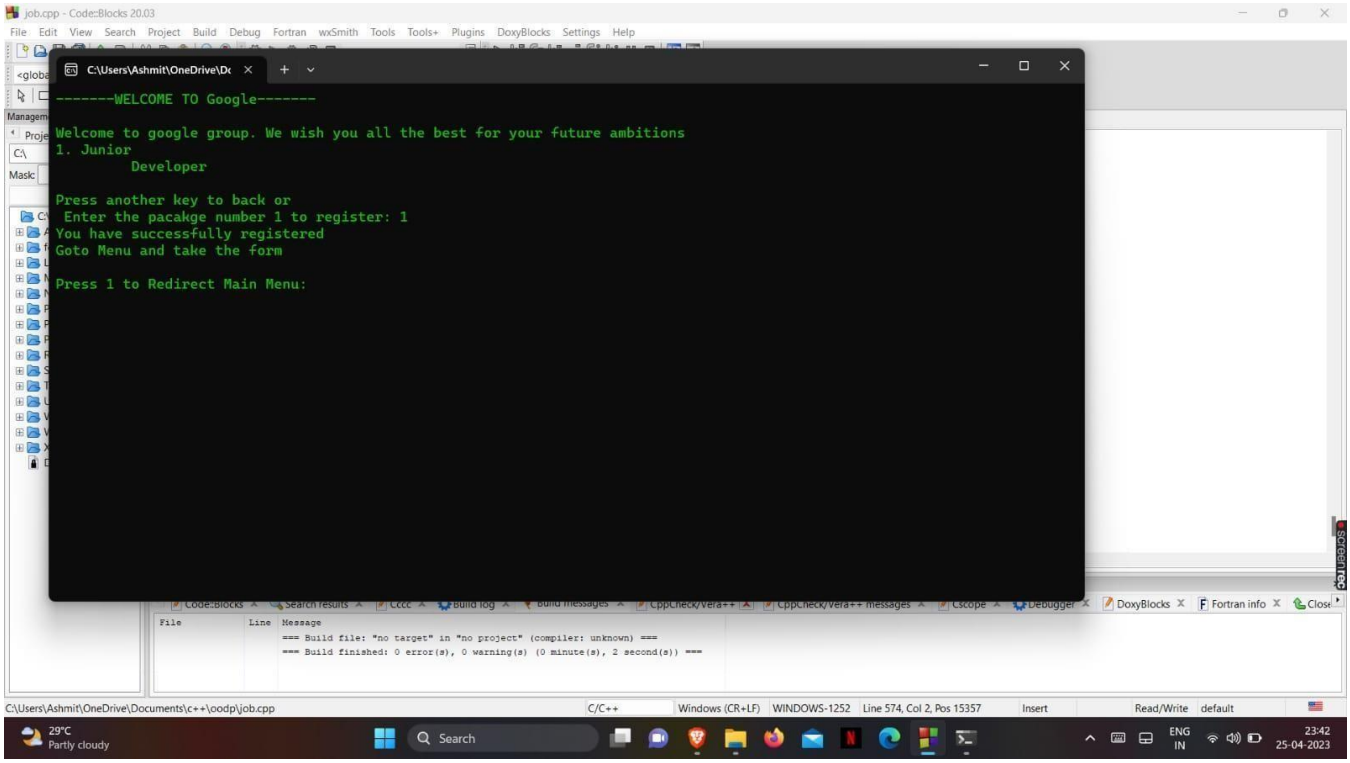
```
else{
            menu();
        }
    }
    else if(mainChoice == 2){
        a3.jobDetails();
    }
    else if(mainChoice == 3){
        cout << "--> select a company using the System <--\n" << endl;
        a4.company();
    }
    else if(mainChoice == 4){
        cout << "-->Get your form<--\n" << endl;
        a5.printBill();
        cout << "Your form is already printed you can get it from file path\n" << endl;
        cout << "to display the your form in the screen, Enter 1: or Enter another key to
back main menu: ";
        cin >> gotoMenu;
        if(gotoMenu == 1){
            system("CLS");
            a5.showBill();
            cout << "Press 1 to Redirect Main Menu: ";
            cin >> gotoMenu;
            system("CLS");
            if(gotoMenu == 1){
                menu();
            }
            else{
                menu();
            }
        }
        else{
            system("CLS");
            menu();
        }
    }
    else if(mainChoice == 5){
        cout << "\n\n\t--GOOD-BYE!--" << endl;
        Sleep(1100);
        system("CLS");
        ManageMenu();
    }
    else{
        cout << "Invalid Input! Redirecting to Previous Menu \nPlease Wait!" << endl;
        Sleep(1100);
        system("CLS");
```

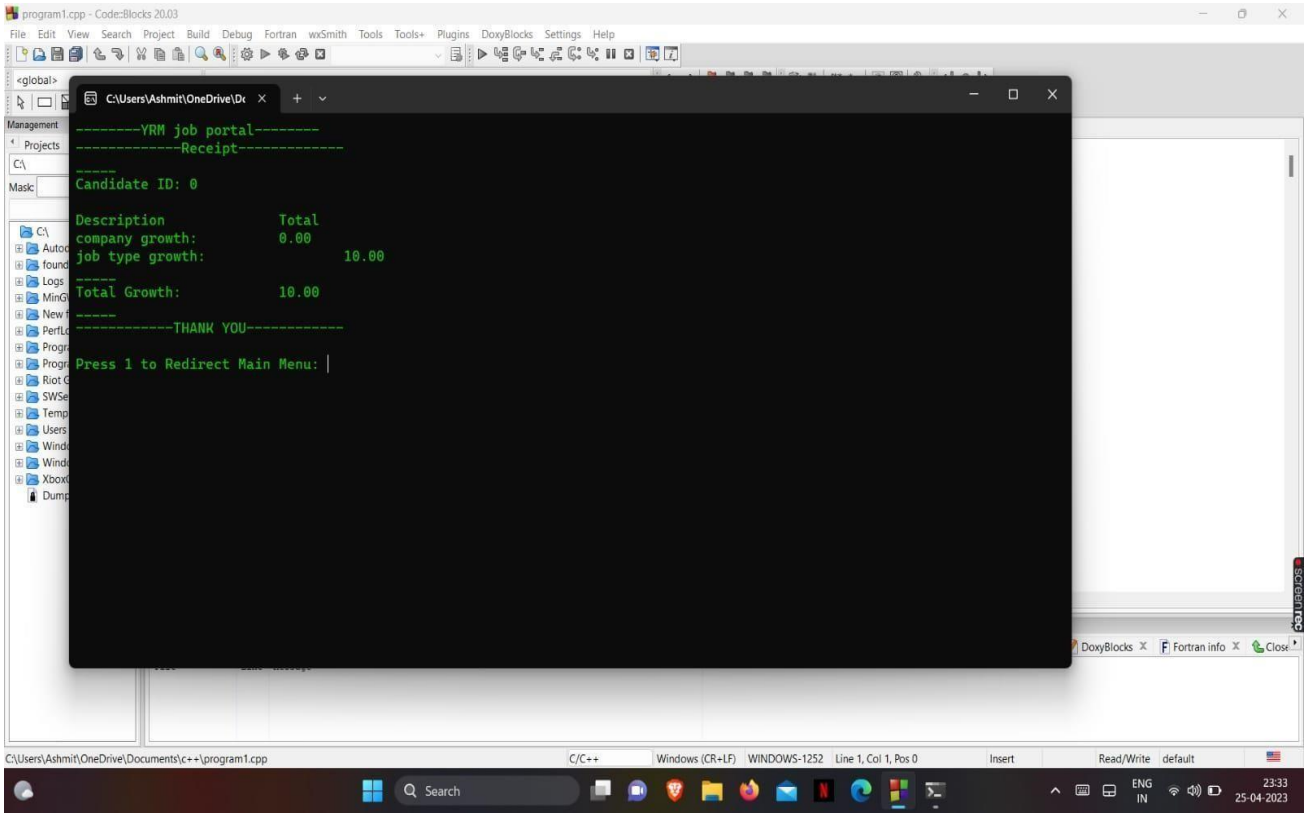
```
menu();
    }
}

int main()
{
    ManageMenu startObj; return 0;
}

/*
Used IDE: CodeBlocks
*/
```

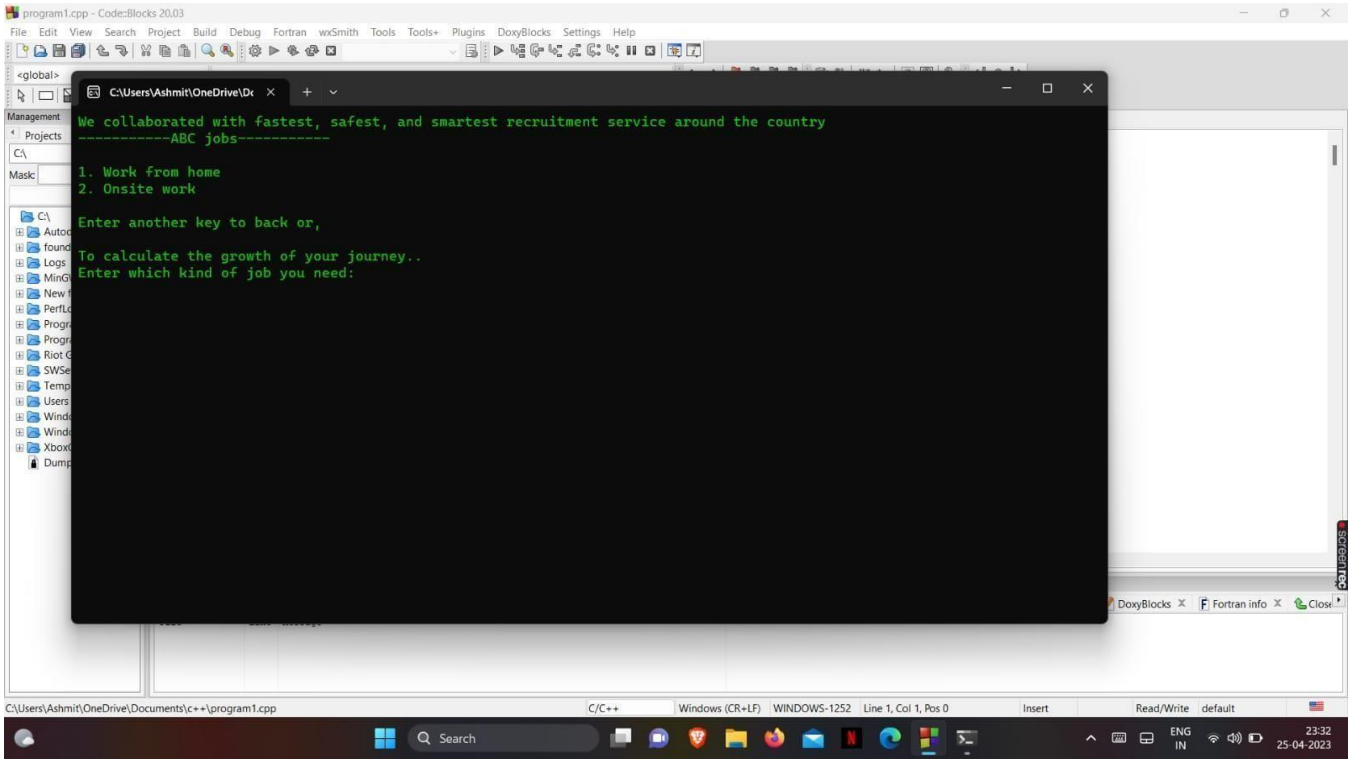
OUTPUT

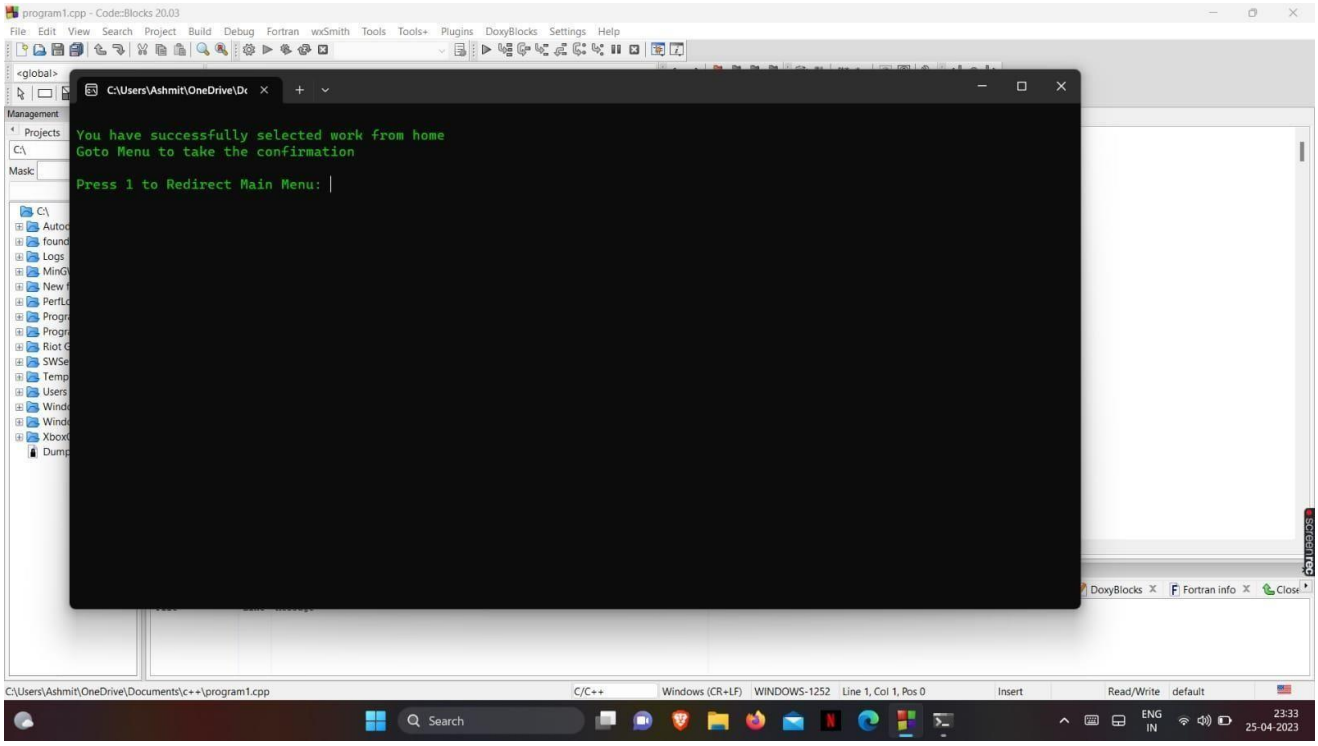

program1.cpp - Code::Blocks 20.03
C:\Users\Ashmit\OneDrive\Dc
* YRM jobs *
Main Menu
User Management ->1
Type of Job -> 2
Recruitment Management -> 3
growth -> 4
Exit -> 5
Enter Choice:

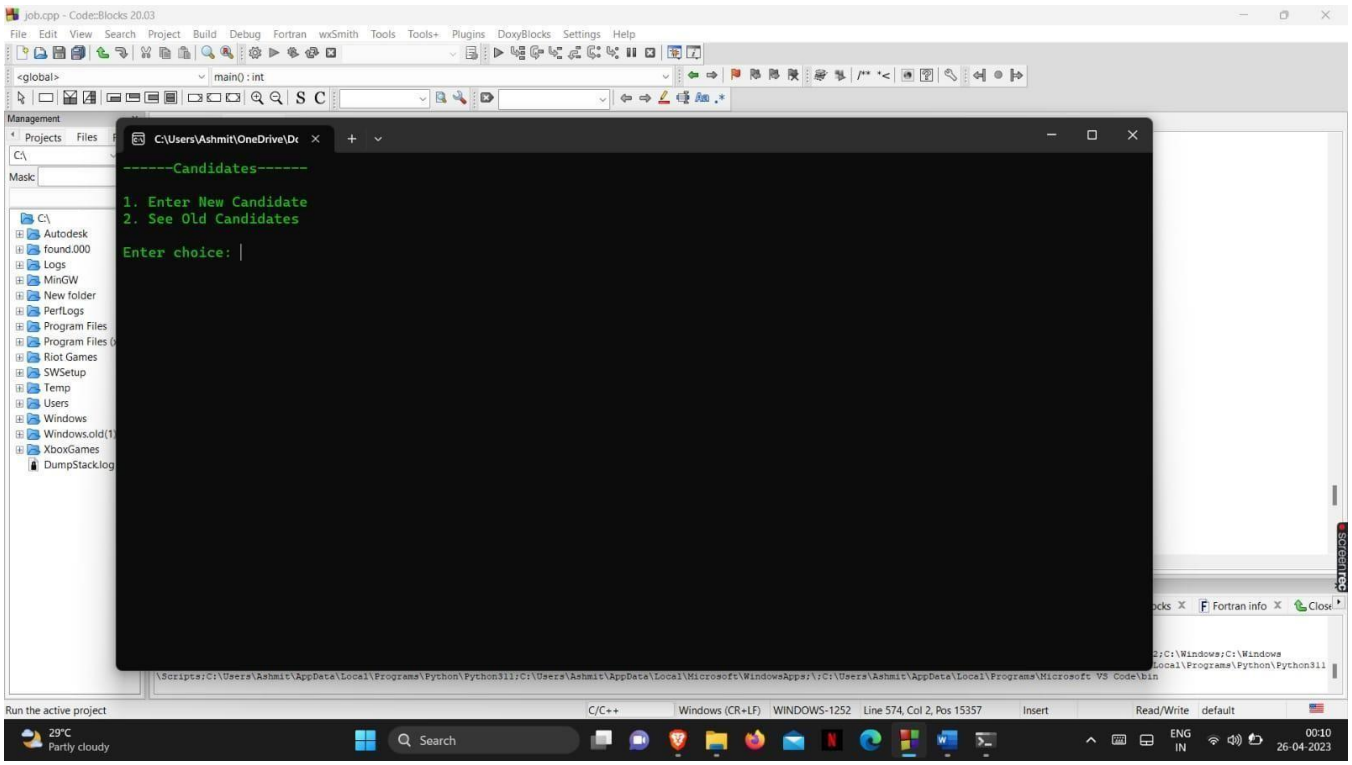

job.cpp - Code::Blocks 20.03
C:\Users\Ashmit\OneDrive\Dc
--> select a company using the System <--
1Product based company
2Service based company
1
Currently we collaborated with above companies!
1. Adobe
2. microsoft
3. google
Press any key to back or
Enter Number of the company you want to book or see details:

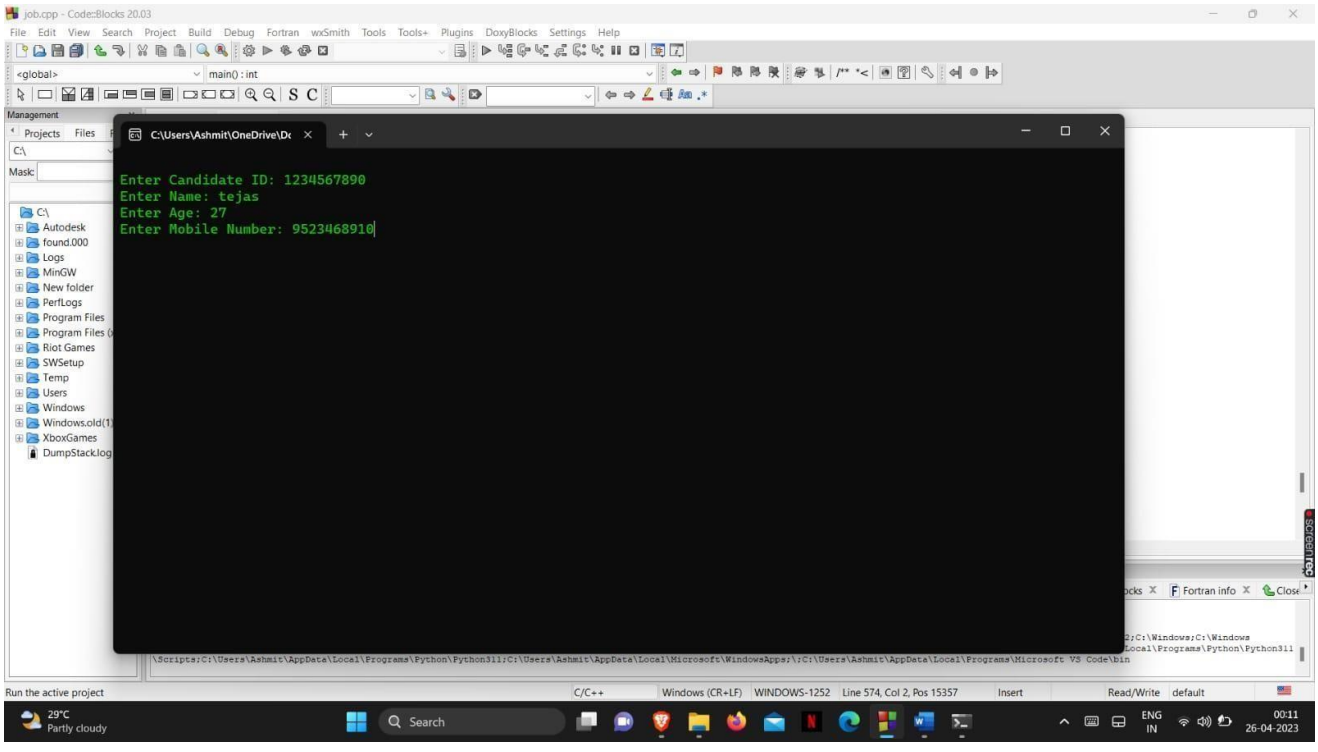

job.cpp - Code::Blocks 20.03
C:\Users\Ashmit\OneDrive\Dc
-------WELCOME TO Google-------
Welcome to google group. We wish you all the best for your future ambitions
1. Junior
Developer
Press another key to back or
Enter the pacakge number 1 to register: 1
You have successfully registered
Goto Menu and take the form
Press 1 to Redirect Main Menu:
C:\Users\Ashmit\OneDrive\Documents\c++\oodp\job.cpp
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 574, Col 2, Pos 15357
Insert
Read/Write
default
29°C
Partly cloudy
Search
ENG
IN
23:42
25-04-2023


program1.cpp - Code::Blocks 20.03
C:\Users\Ashmit\OneDrive\Dc
--------YRM job portal--------
-------------Receipt-------------
Candidate ID: 0
Description
Total
company growth:
0.00
job type growth:
10.00
Total Growth:
10.00
------------THANK YOU------------
Press 1 to Redirect Main Menu:
C:\Users\Ashmit\OneDrive\Documents\c++\program1.cpp
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 1, Col 1, Pos 0
Insert
Read/Write
default
Search
ENG
IN
23:33
25-04-2023


program1.cpp - Code::Blocks 20.03
C:\Users\Ashmit\OneDrive\Dc
We collaborated with fastest, safest, and smartest recruitment service around the country
----------ABC jobs----------
1. Work from home
2. Onsite work
Enter another key to back or,
To calculate the growth of your journey..
Enter which kind of job you need:
C:\Users\Ashmit\Documents\c++\program1.cpp
Search


program1.cpp - Code::Blocks 20.03
C:\Users\Ashmit\OneDrive\Dc
You have successfully selected work from home
Goto Menu to take the confirmation
Press 1 to Redirect Main Menu:
C:\Users\Ashmit\Documents\c++\program1.cpp
Search


job.cpp - Code::Blocks 20.03
C:\Users\Ashmit\OneDrive\Dc
------Candidates------
1. Enter New Candidate
2. See Old Candidates
Enter choice:


job.cpp - Code::Blocks 20.03
C:\Users\Ashmit\OneDrive\Dc
Enter Candidate ID: 1234567890
Enter Name: tejas
Enter Age: 27
Enter Mobile Number: 9523468910

System Design of Online Job Portal

In this phase, a logical system is built which fulfils the given requirements. Design phase of software development deals with transforming the clients's requirements into a logically working system. Normally, design is performed in the following in the following two steps:

1. Primary Design Phase:

In this phase, the system is designed at block level. The blocks are created on the basis ofanalysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimising the information flow between blocks. Thus, all activities which require more interaction are kept in one block

2. Secondary Design Phase: In the secondary phase the detalled design of every block isperformed.

UML DIAGRAMS

UML stands for Unified Modeling Language. UML is a standardized general-purpose modeling language in the field of object-oriented software engineering. The standard is managed and was created by, the Object Management Group

The goal is for UML to become a common language for creating models of object oriented computer software. In its current form UML is comprised of two major components: a Meta-model and a notation. In the future, some form of method or processmay also beadded to or associated with, UML.

The Unified Modeling Language is a standard language for specifying. Visualization, Constructing and documenting the artifacts of software system, as well as for business modeling and other non-software systems.

The UML represents a collection of best engineering practices that have provensuccessful in the modeling of large and complex systems.

The UML is a very important part of developing objects oriented software and the

software development process. The UML uses mostly graphical notations to express thedesignof software projects.

GOALS

The Primary goals in the design of the UML are as follows:

1. Provide users a ready-to-use, expressive visual modeling Language so that they candevelopand exchange meaningful models.

2. Provide extendibility and specialization
mechanisms to extend the core concepts.

3. Be independent of particular programming languages and development process.

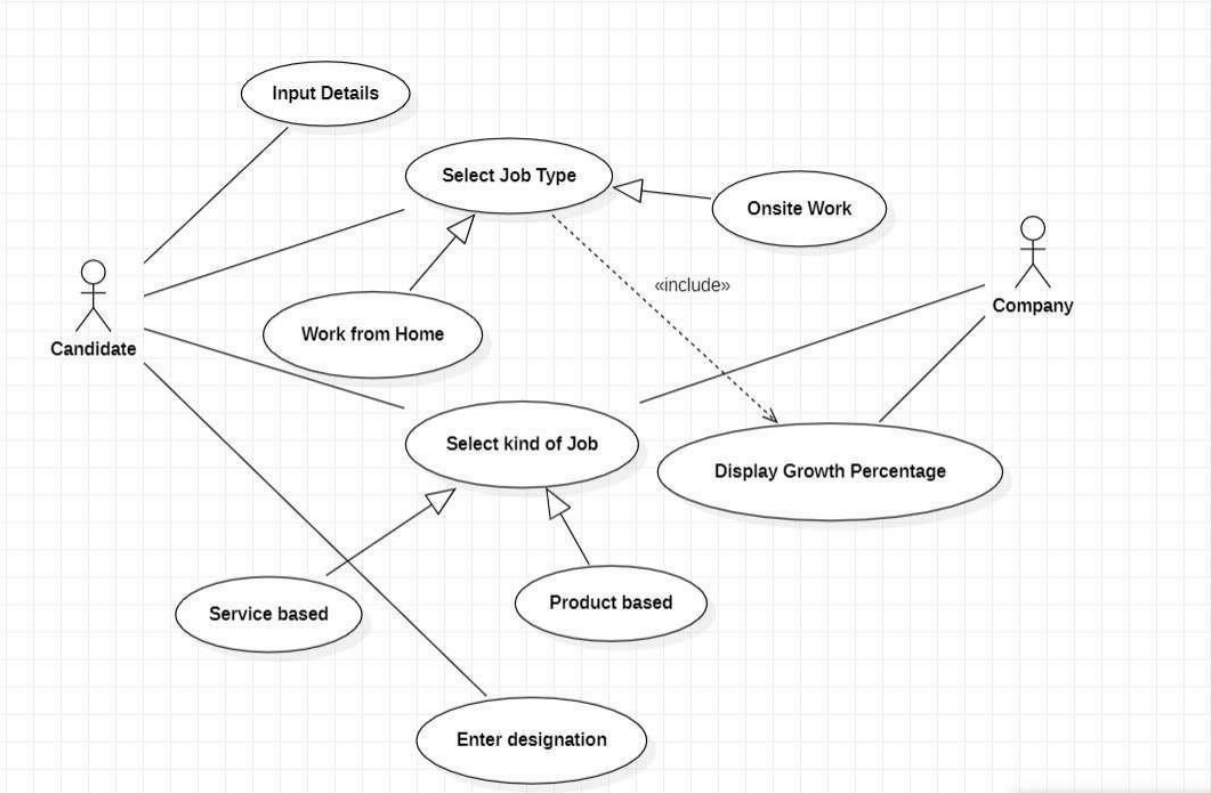
4. Provide a formal basis for understanding the modeling language.

5. Encourage thegrowth of OO tools market.

6. Support higher level development concepts such as collaborations, frameworks,patterns andcomponents.

7. Integrate best practices.

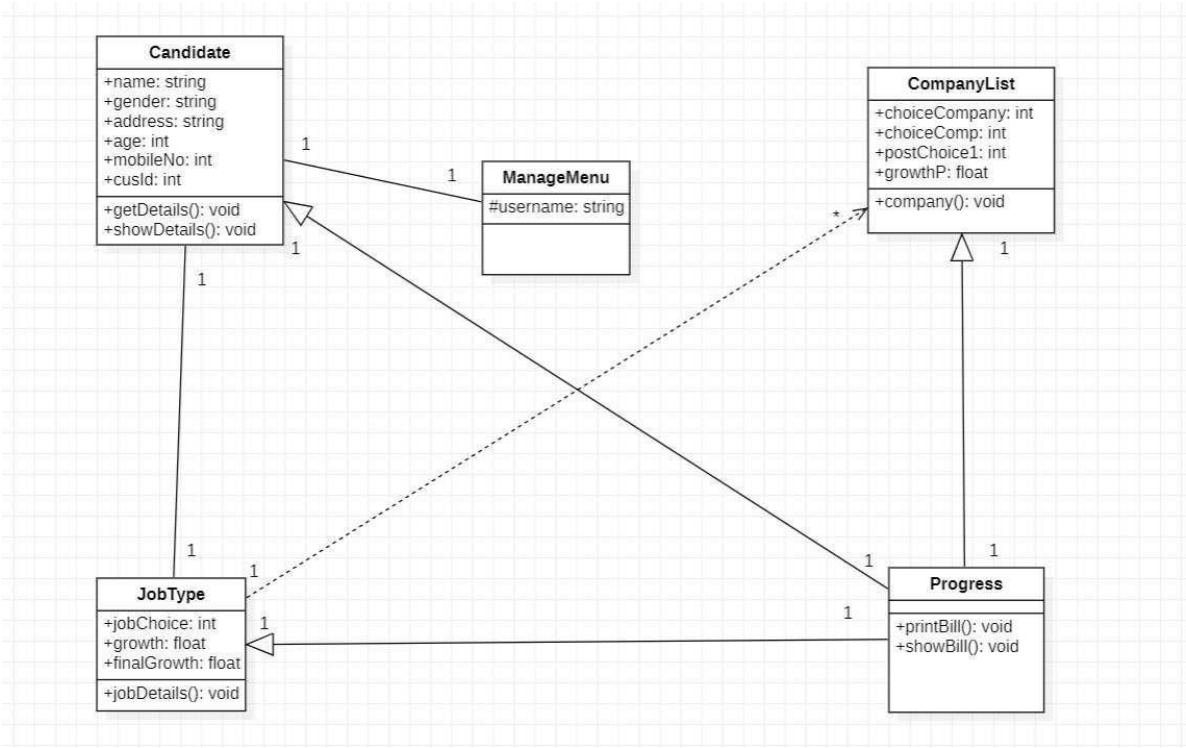
USE CASE DIAGRAM WITH EXPLANATION



A use case diagram is used to represent the dynamic behavior of a system. It encapsulates the system's functionality by incorporating use cases, actors, andtheir relationships. It models the tasks, services, and functions required by a system/subsystem of an application. It depicts the high-level functionality of a system and also tells how the user handles a system.

In the above diagram, candidate is the actor is the candidate who is finding a suitable job for himself. The first usecase is the Input Details where the candidateinputs its personal information. Then there is Select Job Type use case where the candidate selects one job type among the two available options- onsite work andwork from home. Next the candidate chooses the kind of job whether its service based or service based. The candidate then enters his the post for which wants toapply. The Select Job Type function includes the Display Growth Percentage whichactually shows his future progress rate in that particular company.

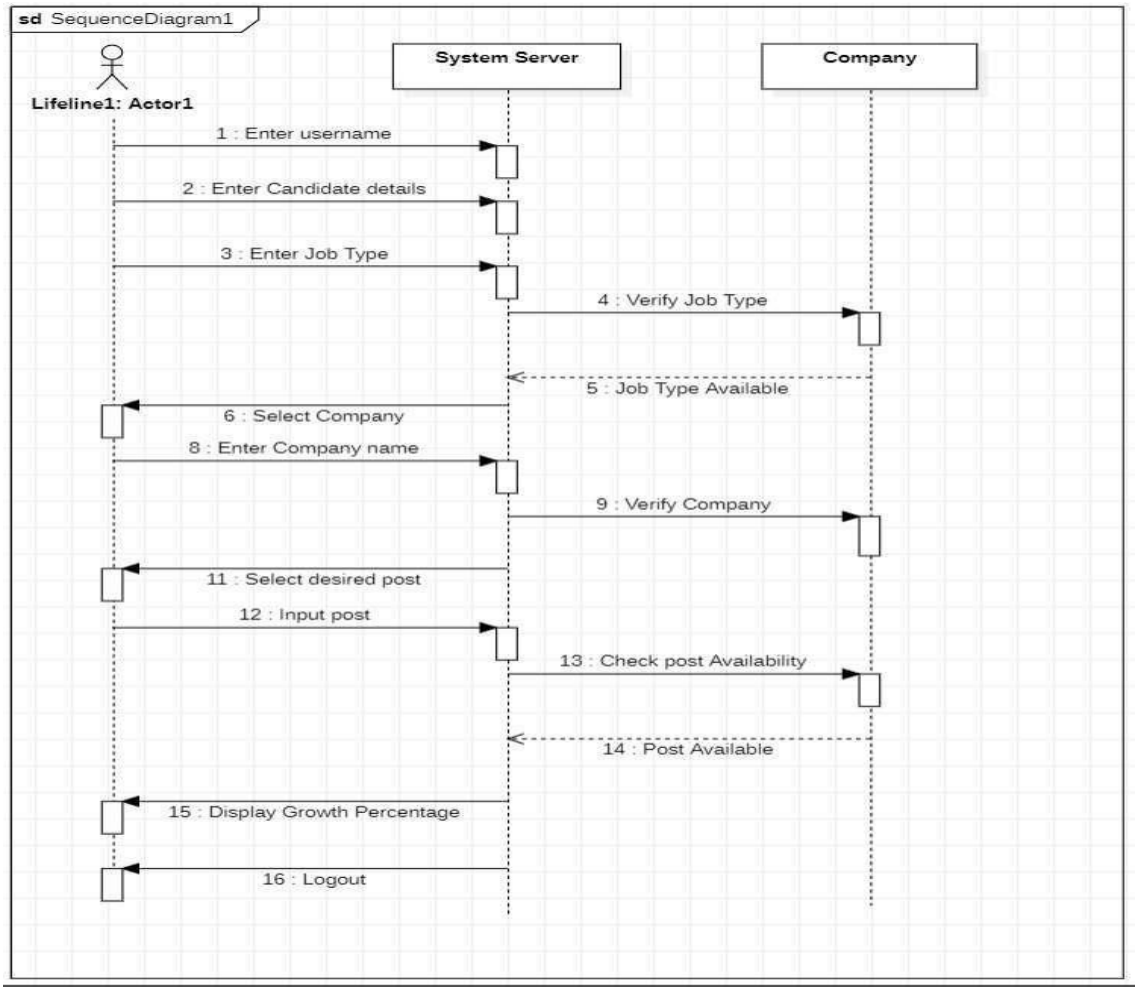
CLASS DIAGRAM WITH EXPLANATION



Class diagram describes the attributes and operations of a class and also the constraints imposed on the system. The class diagrams are widely used in themodeling of object oriented systems because they are the only UML diagrams,which can be mapped directly with object-oriented languages.

In the above diagram, there are five main classes. The initial class is ManageMenu.It contains only one attributes username. Then comes the class named ‘Candidate’.It contains all the personal information of the candidate. It has attributes name, gender, address, age, mobileNo and cusId. It also contains behavior which is actually the functions in that particular class. The plus sign denotes the access specifier public. The classes Candidate and ManageMenu are connected by association. Then comes JobType. It contains jobChoice, growth, finalGrowth as attributes and jobDetails() as behavior. The classes Candidate and JobType are interlinked together by association. Next is the class named CompanyList. This class provides choiceCompany, choiceComp, postChoice1, growthP as their attributes and company() as the behavior. Then there is class Progress which contains printBil() and showbill() as behavior. The class Progress is inherited from Candidate, JobType and CompanyList (multiple inheritance).

SEQUENCE DIAGRAM WITH EXPLANATION

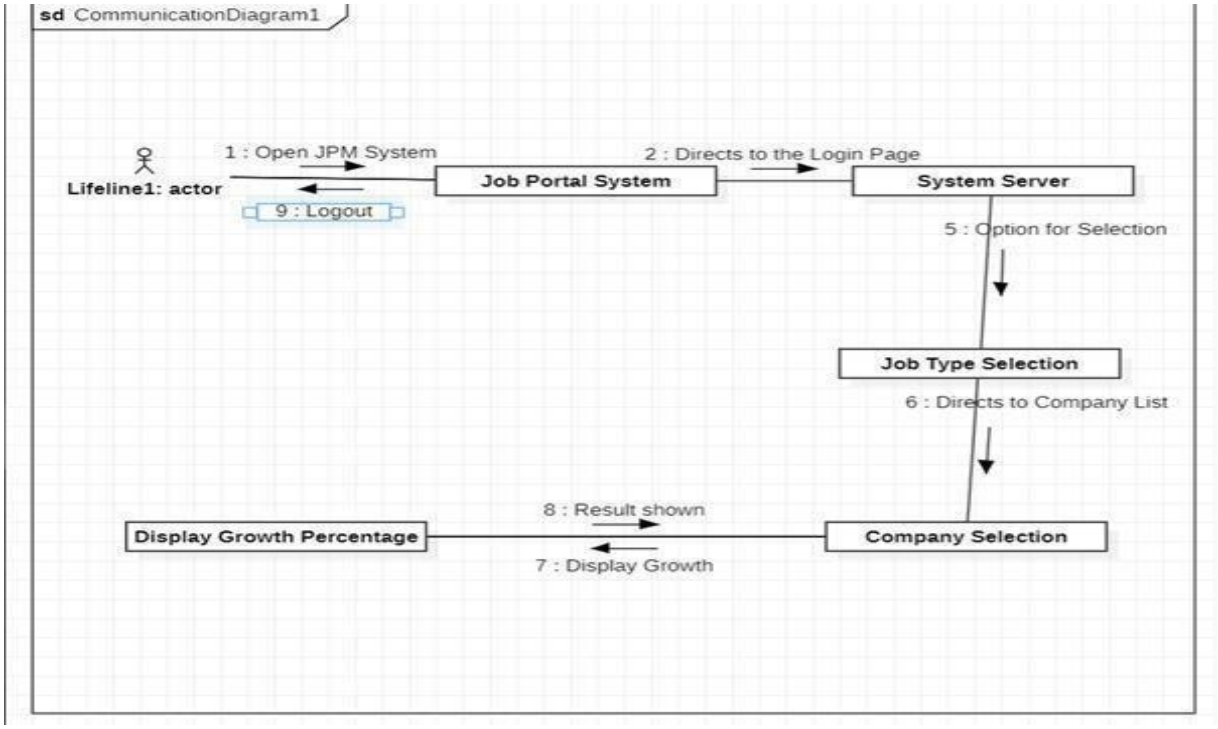


A sequence diagram or system sequence diagram (SSD) shows process interactions arranged in time sequence in the field of software engineering. It depicts the processes involved and the sequence of messages exchanged betweenthe processes needed to carry out the functionality. Sequence diagrams are typically associated with use case realizations in the 4+1 architectural view model of the system under development. Sequence diagrams are sometimes called event diagrams or event scenarios.

There are two lifelines. Initial one is the actor (candidate). System Server and Company are the two lifelines. The first information goes from the actor to the system server where the candidate enters the username to login into the portal.Then the actor provides his personal details to the server. After that the actor enters the type of job he prefers. Then the system server sends a message to thecompany whether that job type is available or not. The company replies to the

server , then the asks the candidate to enter this desired company name.
Next the system verifies it with the company and replies back to the candidate. The candidate then inputs the post which he wants . The company checks its availability and sends a reply to the system server.
The system also displays thegrowth percentage of the candidate. Lastly the user logs out from the system.

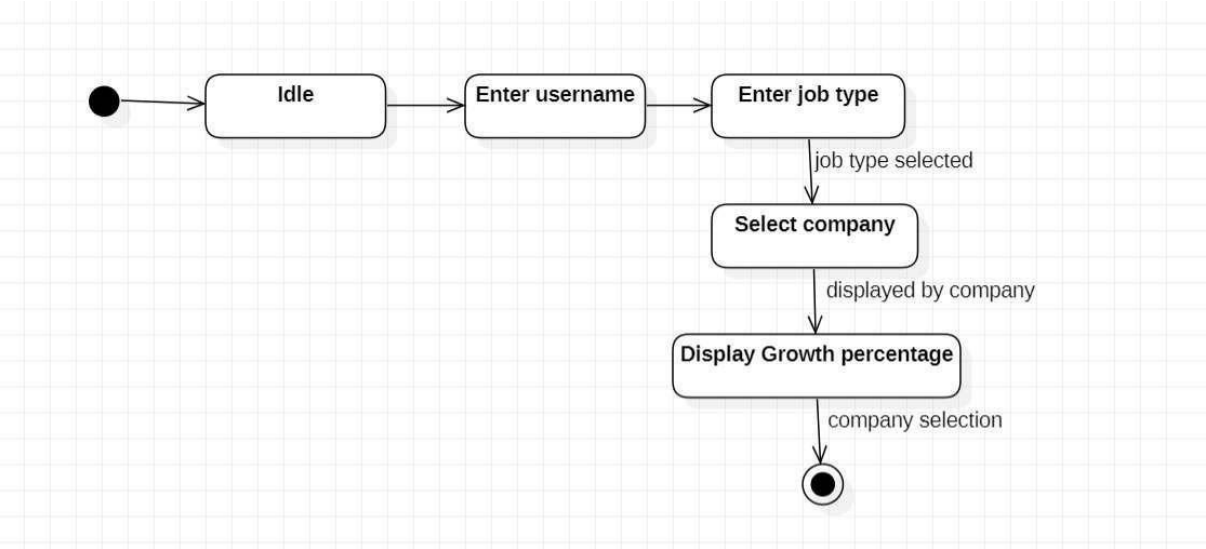
COLLABORATION DIAGRAM WITH EXPLANATION



A collaboration diagram, also known as a communication diagram, is an illustrationof the relationships and interactions among software objects in the Unified Modeling Language (UML). These diagrams can be used to portray the dynamic behavior of a particular use case and define the role of each object.

In the above collaboration diagram, the software elements are identified which helps in the further functionality of the system . Job portal system is opened thoughwhich the the process starts,and system server becames active and process starts offinding the job. At first the job type is selected to proceed the job selection throughvarious companies,and at last growth percentage is displayed on the screen. And allthus process will be reversed to log out the candidate.

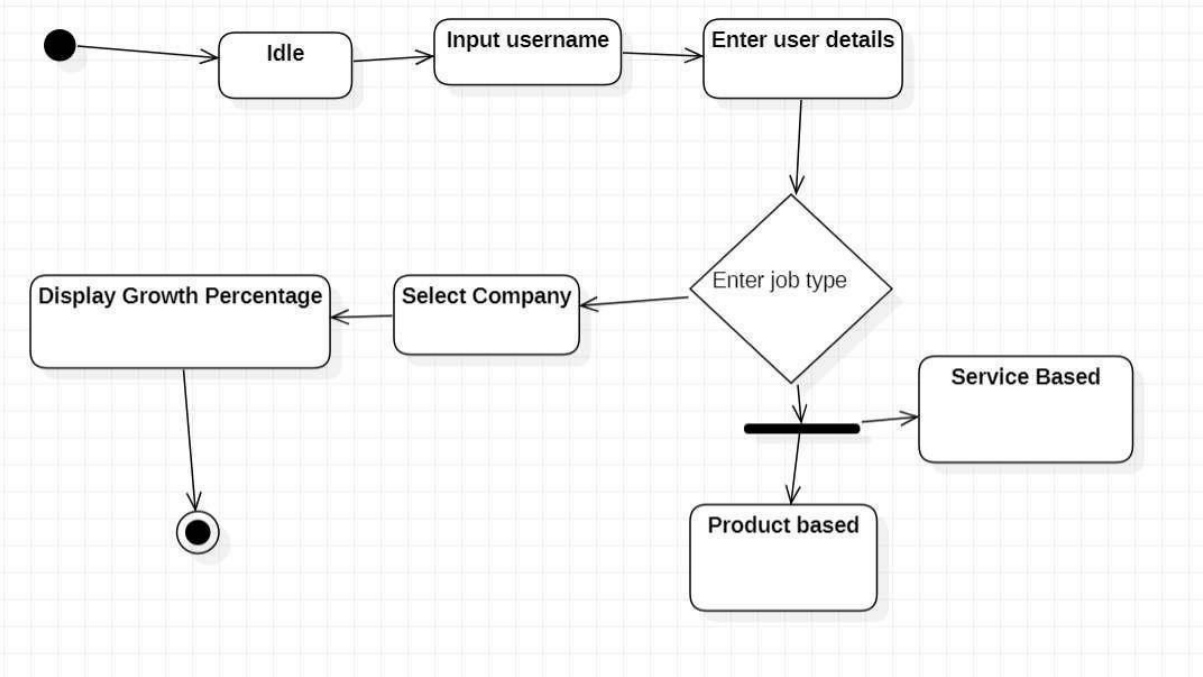
STATE CHART DIAGRAM WITH EXPLANATION



State Chart diagram describes the flow of control from one state to another state.States are defined as a condition in which an object exists and it changes when some event is triggered. The most important purpose of State chart diagram is tomodel lifetime of an object from creation to termination. State chart diagrams arealso used for forward and reverse engineering of a system.

In the above State Chart Diagram, flow of control starts with the solid circle calledthe initiation stage. While entering username that's first flow of control is transferred from one state to another chart after that while entering job type another state completed and got to the next state of selecting the desired company as mentioned above in the diagram, after that last control will be executed i.e. of displaying the growth percentage of the candidate will be displayed that leads to end of control flow with the final state execution.

ACTIVITY DIAGRAM WITH EXPLANATION

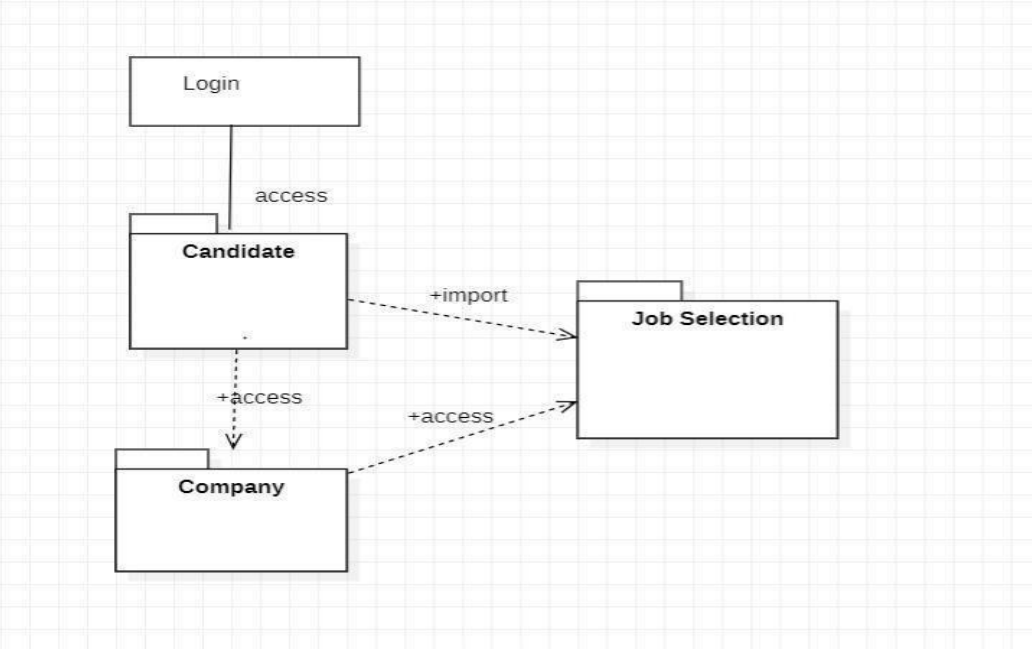


Activity diagrams are graphical representations of workflows of stepwise activitiesand action with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams are intended to model both computationaland organizational processes (i.e., workflows), as well as the data flows intersecting with the related activities. Although activity diagrams primarily show the overall flow of control, they can also include elements showingthe flow of data between activities through one or more data stores.

The filled circle in the above diagram denotes the starting position of the diagram. Then comes the idle condition. The candidate inputs his username to login into thesystem. The next activity shows where the user inputs his

personal details. Then the candidate enters the job type whether he wants service based or product based. We have used decision box here to choose amongthe two options. After that the candidate selects his preferred company and also selects the post he wants to apply for. Based on that it displays the Growthpercentage. Then at the end the cicle containing a filled circle refers to the end point of the diagram.

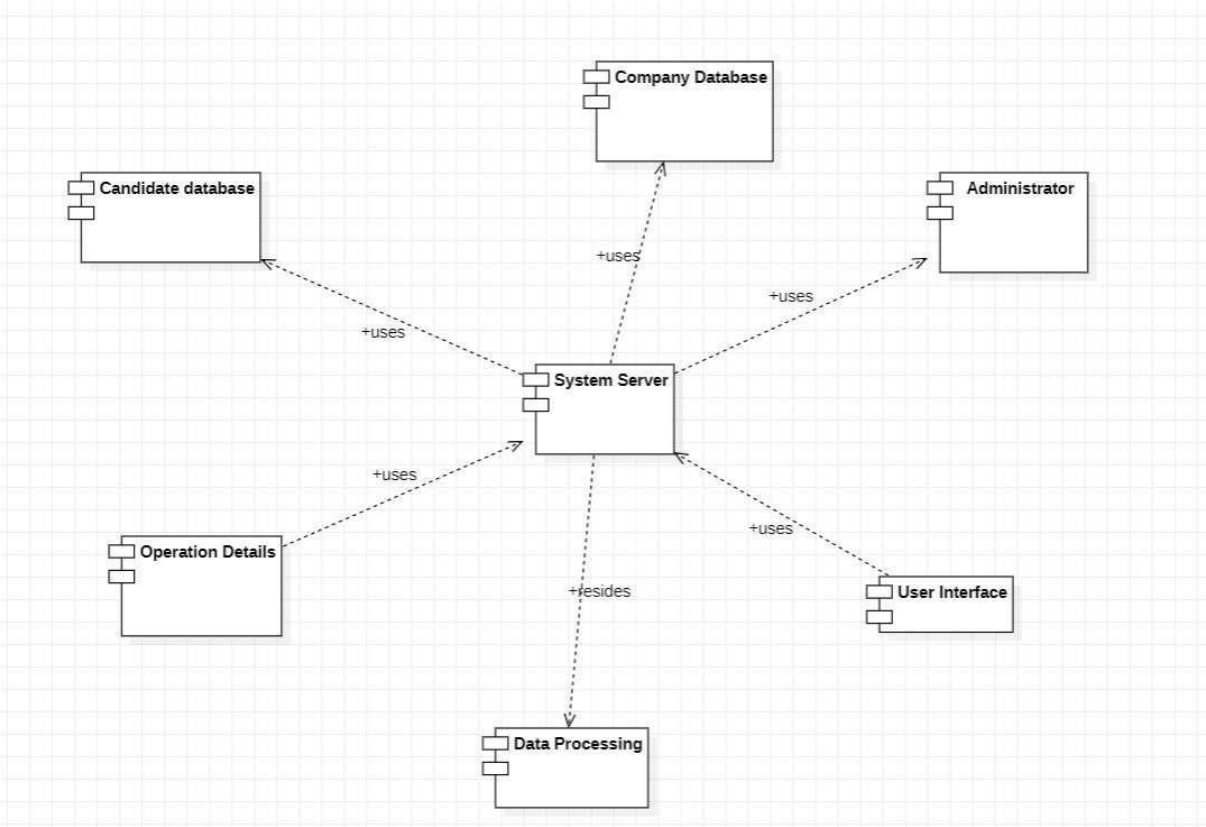
PACKAGE DIAGRAM WITH EXPLANATION



Package diagrams are structural diagrams used to show the organization and arrangement of various model elements in the form of packages. A package is a grouping of related UML elements, such as diagrams, documents, classes, or evenother packages. Each element is nested within the package, which is depicted as afile folder within the diagram, then arranged hierarchically within the diagram.

In the above diagram,user login in the system server from where user is directed tothe company database or a package containing some popular companies or the regular companies as well as also to the candidate database.and access all the elements of the package.

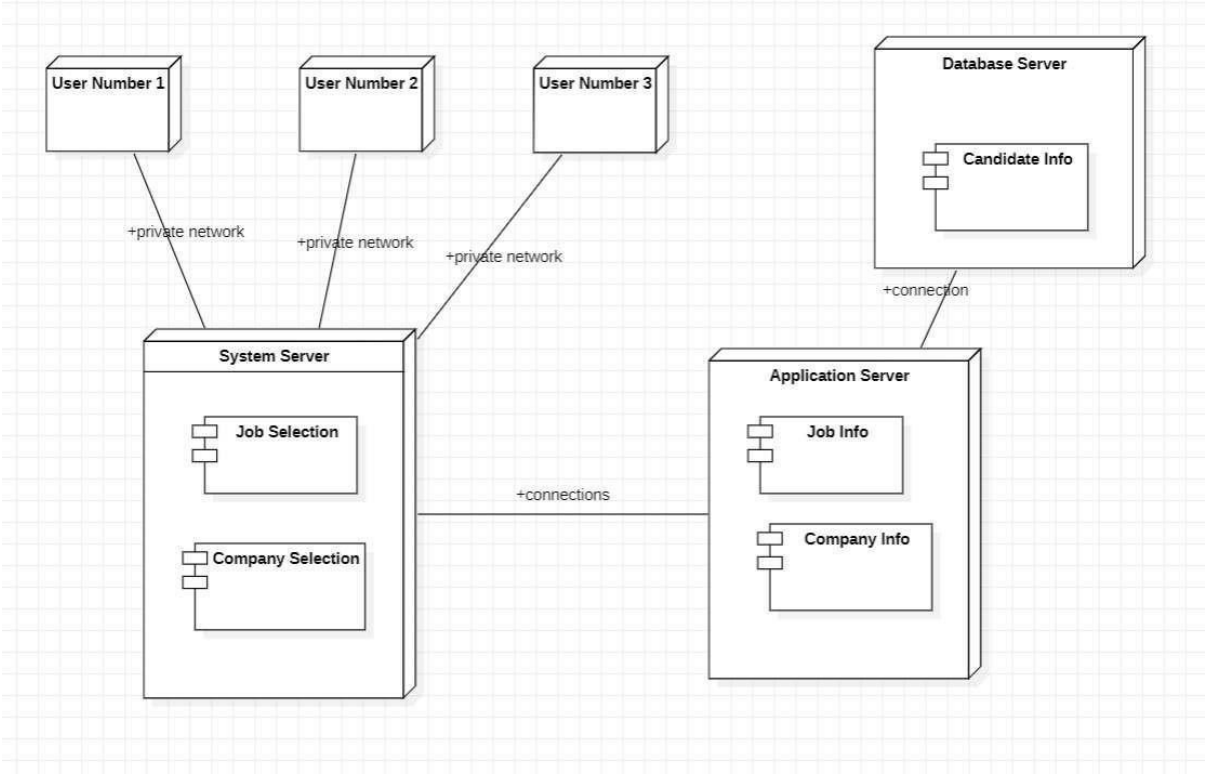
COMPONENT DIAGRAM WITH EXPLANATION



Component diagrams are used in modeling the physical aspects of object-oriented systems that are used for visualizing, specifying, and documenting component- based systems and also for constructing executable systems through forward and reverse engineering. Component diagrams are essentially class diagrams that focuson a system's components that often used to model the static implementation viewof a system.

In the above diagram, System Server is the main component. Several other components are connected to it by dependency. The Candidate Database component is associated with System Server. Similarly other components likeCompany Database, Admistrator, Operation Details, Data Processing and User Interface. Here the system server uses the company databases to get therequired information about the company that's why uses company database component.Same situation is with candidate database as well as the candidate database and the administrator also.

DEPLOYMENT DIAGRAM WITH EXPLANATION



A deployment diagram is a UML diagram type that shows the execution architectureof a system, including nodes such as hardware or software execution environments,and the middleware connecting them. Deployment diagrams are typically used to visualize the physical hardware and software of a system. Using it you can understand how the system will be physicallydeployed on the hardware.Deployment diagrams help model the hardware topology of a system compared to other UML diagram types which mostly outlinethe logical components of a system.

In the above diagram, there are three nodes. The first node is the Database Serverthat contains the component Candidate Info. This node is connected to the Application Server Node by association. This node contains two components Job Info and Company Info. Then this node is connected to System Server node that consists of Job Selection and Company Selection. This node is further associated tothree other nodes.

CONCLUSION

This project is developed successfully and the performance is found to be satisfactory. This project is designed to meet the requirements of assigning jobs. It has been developed in C++ keeping in mind the specifications of the system. The user will be able to find jobs using this website, the relationship between company manager, employee, and customer satisfy a good communication to complete ticketing process. We have designed the project toprovide the user with easy retrieval of data, details of theatre and necessary feedback as much as possible. In this project, the user is provided with a website that

can be used to find jobs online.

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