

SECOND SEMESTER MINI PROJECT REPORT

ONLINE EMPLOYEE RECRUITMENT SYSTEM IN PYTHON

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*Affiliated To University of Calicut & Reaccredited By NAAC with "A" Grade & College
with Potential Excellence*



CERTIFICATE

This is to certify that the Mini Project Report titled **“Online Employee Recruitment System In Python”** is a bonafide record of the work carried out by **ANOOJA TA(THAVBOA021)** of St.Thomas' College(Autonomous) Thrissur-680005 in partial fulfillment of the requirements for the award of Degree of B.Voc Data Science of University of Calicut, during the academic year 2021-2024. The second semester Mini Project report has been approved as it satisfies the academic requirements in the respect of mini project work prescribed for the said degree.

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DECLARATION

I hereby declare that the project report entitled **“Online Employee Recruitment System In Python”** which is being submitted in partial fulfillment of the requirement of the award of the Degree in Bachelor of Vocational Studies in Data Science is the result of the project carried out by me under the guidance and supervision of **Ms. Sreelekha K**, Assistant Professor, Department of Data Science.

I further declared that I or any other person has not previously submitted this project report to any other institution / university for any other degree / diploma or any other person.

Place : Thrissur

Date:

ANOOJA TA

(Signature)

ONLINE EMPLOYEE **RECRUITMENT SYSTEM IN** **PYTHON**

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ABSTRACT

This project is based on automate its recruitment process companies which are currently using a manual system to recruit employees. Recruitment system is a process of selecting potential candidates for a vacant position and hiring the candidates who fulfill the requirement of the organization. This employee recruitment system has facilities where prospective candidates can upload their CV's and apply for jobs suited to them. There are two modules namely Admin and employee. Admin can view the candidate, employee can update profile

1.Request for job opportunities

2.Online CV submission

3.Recruiting for certain jobs

CHAPTER 1

1.1 Introduction

Recruitment system is a process of selecting potential candidates for vacant position and hiring the candidates who fulfill the recruitment of the organization hence hiring is a strategic for human. This employee recruitment system has facilities where prospective candidates can upload their CV's and apply for jobs suited to them. A company can automate its recruitment process and this company is currently using a manual system to recruit employees; since recruiting employees manually is a time consuming, possibly erroneous in employing incompetent individuals, thus wasting of the company's money or loosely speaking not a wise strategy in terms of economy. Recruitment is a process of finding the potential resources for filling up the vacant positions in an organization. It is a process of filtering the candidates based on their abilities and attitude, which is required for achieving the objectives of an organization.

Recruitment process is a process of identifying the job vacancies, analysing the job requirements, reviewing applications, screening, shortlisting and selecting the right candidate. This Online Recruitment System provides online help to the recruiters. Using web recruitment system, plays a vital role in simplifying the recruitment process. . This Recruitment applications is designed to do a whole work and it reduces paperwork. They can make a significant contribution to a company's marketing and sales activity. There are two modules namely Admin and employee. Admin can view the candidate, filter the candidate as per the requirement, they have authority to update requirement statistics, and also, they can view feedback. Employee can apply for the respective desired job as per the vacancy, Employee can update profile, check for the vacancies and also, he/she can ask for the information.

1.2 Aims

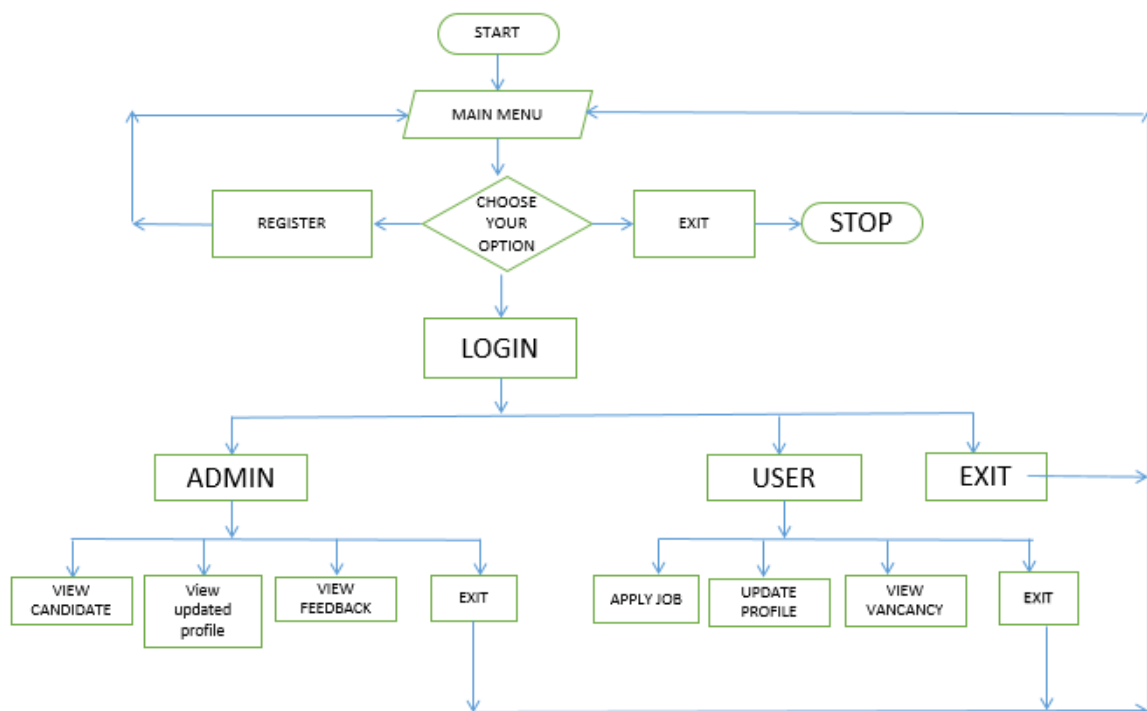
To create a python program to automate the basic functions carried out in a recruitment system which are otherwise done manually and at often time consuming. The following are the functions included in the project.

- Register
 - Before login users should register which include their personal details and create a username and password
- Login system
 - A login system to differentiate between admin and user. There will be only one admin to manage and several users those who can login using their username and password.
- View Candidates
 - Admin can view candidates profile and verify if the person is eligible for the job he/she applied.
- Updated profile
 - Here only updated profile will be visible. Hence admin can get the updated profiles easily.
- View feedback
 - Here admin can see the feedbacks of each users separately. Hence can improve this recruitment system accordingly.
- Apply job
 - Admin can apply for eligible job by according to their qualification details. They can apply for more than one job if they are eligible.
- Update profile
 - User can add or edit their profile any time they needed. They can add qualification, job experience, change personal details etc. through this.
- View vacancy
 - Users can view vacancy that are provided in under each qualification through this.

CHAPTER 2

2.1 Methodology

Working diagram



2.2 Algorithm

1. Start
2. Initialize the variable in dictionary and list
3. Choose user type Admin or User
4. If Admin is chosen enter userid and password
 - a) If userid and password is correct display connected
 - b) Else display incorrect userid and password
5. If user is chosen enter userid and password
 - a) If userid and password is correct display connected
 - b) Else display incorrect userid and password
6. If user type is incorrect display invalid user
7. If Admin is logged in, menu will be displayed
8. Admin can view candidates details, filter the candidates based on his needs, update, view feedback, and after all he/she can exit
9. If user is logged in, menu will be displayed
10. User can apply for jobs, update the profile, view vacancy, submit feedback and finally they can exit
11. stop

2.3 Code

```

1 import tabulate
2 users={'ANOOJA':'pw1','ALNA':'pw2','NANDANA':'pw3'}
3 userkey=list(users.keys())
4 uservalue=list(users.values())
5 job1=["1.Delivery boy or girl","2.Security guard","3.Data entry","4.Video
6 editor"]
7 job2=["1.Salesexecutive","2.Telecaller","3.Office assistant","4.2D designer"]
8 job3=["1.Accountant","2.Bussiness development executive","3.Management
9 trainee"]
10 job4=["1.Junior Q A Engineer","2.Autocad designer","3.Civil project
11engineer","4.Automation engineer"]
12 feedback=[]
13 candidate=[{ "Candidate Name": "Anooja","Applied Position":"Automation
14 Engineer"},{ "Candidate Name": "Alna","Applied Position":"Data Entry"},{
15 "Candidate Name": "Nandana","Applied Position":"Delivery girl"},{
16"Candidate Name": "Amal","Applied Position":"2D designer"},{ "Candidate
17 Name": "Ajil","Applied Position":"Delivery boy"},{ "Candidate Name":
18"Vishnu","Applied Position":"Sales Executive"},{ "Candidate Name":
19"Uma","Applied Position":"Office Assustant"},{ "Candidate Name":
20"Aswathy","Applied Position":"Bussiness development Executive"},{
21"Candidate Name": "Anooja","Applied Position":"DataEntry"},{ "Candidate
22 Name": "Abhijith","Applied Position":"Accountant"}}
23 updatecan=[{ "Candidate Name": "Nandana","Applied Position":"Delivery
24 girl","Updated Position":"Video editor" },{ "Candidate Name":
25"Uma","Applied Position":"Office Assustant","Updated
26Position":"Accountant" }]
27 vacancy = [{ "Job Title": "Delivery boy","No.of Vacancy":5},{ "Job Title":
28 "Delivery girl","No.of Vacancy":2}, { "Job Title": "Security guard","No.of
29 Vacancy":7}, { "Job Title": "Data Entry","No.of Vacancy":10}, { "Job Title":
30 "Video editor","No.of Vacancy":3},
31 { "Job Title": "Sales executive","No.of Vacancy":1} ,{ "Job Title": "Office
32Assistant","No.of Vacancy":4}, { "Job Title": "Accountant","No.of

```

```
33Vacancy":8}, {"Job Title": "Bussiness development executive","No.of
34Vacancy":7},{ "Job Title": "Management trainee","No.of Vacancy":2},
35{"Job Title": "Junior QA engineer","No.of Vacancy":2},{ "Job Title":
36"Autocard designer","No.of Vacancy":4}, {"Job Title": "Civil project
37Engineer","No.of Vacancy":5},{ "Job Title": "Automation engineer","No.of
38Vacancy":6}]
39 def vacancytable():
40     header = vacancy[0].keys()
41     rows = [x.values() for x in vacancy ]
42     print(tabulate.tabulate(rows,header,tablefmt='grid'))
43 def candidatetable():
44     header = candidate[0].keys()
45     rows = [x.values() for x in candidate ]
46     print(tabulate.tabulate(rows,header,tablefmt='grid'))
47 def updatecantable():
48     header = updatecan[0].keys()
49     rows = [x.values() for x in updatecan]
50     print(tabulate.tabulate(rows,header,tablefmt='grid'))
51 def register():
52     FirstName=input("Enter first name:")
53     LastName=input("Enter last name:")
54     email=input("Enter email:")
55     username=input("Enter username:")
56     password1=input("Enter password:")
57     password2=input("Confirm password:")
58     if password1==password2:
59         print("successfully registered:")
60         users.update({username:password1})
61         userkey.append(username)
```

```
62  uservalue.append(password1)
63  else:
64      print("Please Recheck Your Password.")
65      password1=input("Enter password:")
66      password2=input("Confirm password:")
67  if password1==password2:
68      print("successfully registered:")
69      users.update({ username:password1 })
70      userkey.append(username)
71      uservalue.append(password1)
72  else:
73      print("Please Recheck Your Password.")
74  register()
75def profile():
76  Name=input("Enter your name:")
77  phonenumber=input("enter your phone number:")
78  if(len(phonenumber)==10):
79      email=input("enter your email:")
80      print("Qualification ", "\n1.SSLC", "\n2.+2", "\n3.B.com", "\n4.Btech")
81      quali=int(input("Enter Your Choice :"))
82  if quali==1:
83      print(*job1, sep = "\n")
84  elif quali==2:
85      print(*job2, sep = "\n" )
86  elif quali==3:
87      print(*job3,sep="\n")
88  elif quali==4:
```

```
89  print(*job4,sep='\n')
90  q=int(input("enter your job choice"))
91  if (q==1) or (q==2) or (q==3) or (q==4):
92  print("upload resume")
93  print("1.Yes","\n2.No")
94  r=int(input("Enter your choice :"))
95  if r==1:
96  print("Resume uploaded")
97  print("Do yo want to Apply")
98  print("1.Yes","\n2.No")
99  s=int(input ("Enter Your Choice :"))
100  if s==1:
101      print("successfully applied")
102      print("THANK YOU!")
103  #user()
104  else:
105      print("Application cancelled")
106      #user()
107  else:
108      print("resume not uploaded")
109      profile()
110  else:
111      print("Invalid Mobile Number, Try Again!!")
112      profile()
113  def login():
114      print("=====")
115      print("  MAIN MENU")
```

```
116 print("=====")
117 print("1.USER")
118 print("2.ADMIN")
119 print("3.Exit")
120 print("****")
121 choice=int(input("Enter login choice:"))
122 return choice
123 def user():
124     print("=====")
125     print("  USER MENU")
126     print("=====")
127     print("1.Apply job")
128     print("2.Update profile")
129     print("3.View vacancy")
130     print("4.Feedback")
131     print("5.Exit")
132     print("****")
133     men1=int(input("Enter User choice:"))
134     return men1
135 def admin():
136     print("=====")
137     print("  ADMIN MENU")
138     print("=====")
139     print("1.View candidates")
140     print("2.Updated profie")
141     print("3.View feedback")
142     print("4.Exit")
```

```
143 print("****")
144 menu2=int(input(":Enter Admin choice:"))
145 return menu2
146 n=True
147 while n==True:
148     print("  WELCOME ")
149     print("=====")
150     print("  HOME")
151     print("=====")
152     print("1.Register")
153     print("2.Login")
154     print("3.Exit")
155     print("****")
156 Home=int(input("Enter your choice:"))
157 if Home==1:
158     register()
159 elif Home==2:
160     choice=login()
161     while(choice!=3):
162         if choice==1:
163             ur=input("Enter your username:")
164             pwd1=input("Enter your password:")
165             if ur in userkey and pwd1 == uservalue[userkey.index(ur)]:
166                 print("Login Successful")
167                 menu1=user()
168                 while(menu1!=5):
169                     if menu1==1:
```



```
170         print("Application")
171         profile()
172         menu1=user()
173     elif menu1==2:
174         print("UPDATE")
175         profile()
176         print("PROFILE UPDATED")
177         menu1=user()
178         #profile.update(qualification)
179         #profile.append(qualification)
180     elif menu1==3:
181         print("View Vacancy")
182         vacancytable()
183         menu1=user()
184     elif menu1==4:
185         print(" Feedbacks :-")
186         print(*feedback,sep="\n")
187         print("SUBMIT FEEDBACK")
188         fb=input("Enter Your Feedback: ")
189         feedback.append(fb)
190         menu1=user()
191     else :
192         print("INVALID CHOICE!")
193         menu1=user()
194         print("End of Main Code through User")
195         choice=3
196     else:
```

```
197     print("incorrect username or password. Retry Login!")
198     choice = login()
199 elif choice ==2 :
200     AM=input("Enter your username:")
201     PW=input("Enter your password:")
202     if AM=="ABC" and PW=="ABC12":
203         print("login sucessfully")
204         menu2=admin()
205         while(menu2!=4):
206             if menu2==1:
207                 #view candidate
208                 candidatetable()
209                 menu2=admin()
210 elif menu2==2:
211             #updated profile
212             updatecantable()
213             menu2=admin()
214 elif menu2==3:
215             print(feedback)
216             print(*feedback,sep="\n")
217             menu2=admin()
218 else :
219             print("INVALID CHOICE!")
220             menu2=admin()
221             print("End of Main Code through Admin.")
222             choice=3
223 else:
```

```
224         print("Incorrect User Username or Password. Retry Login!")
225         choice = login()
226     else:
227         print("INVALID CHOICE!")
228         choice=login()
229         print("End of Main Code through Login.")
230     else:
231         print("End of Main Code through Home.")
232         print("THANKYOU! ☐")
233         n = False
```

2.4 Output

```

+ Code + Text
WELCOME
=====
HOME
=====
1.Register
2.Login
3.Exit
****
Enter your choice:1
Enter first name:abc
Enter last name:cd
Enter email:ab@gmail.com
Enter username:abc
Enter password:1234
Confirm password:1234
successfully registered:
    WELCOME
=====
    HOME
=====
    1.Register
    2.Login
    3.Exit
    ****
    Enter your choice:1
  
```

```

+ Code + Text
HOME
=====
1.Register
2.Login
3.Exit
****
Enter your choice:2
=====
MAIN MENU
=====
1.USER
2.ADMIN
3.Exit
****
Enter login choice:1
Enter your username:abc
Enter your password:1234
Login Successful
=====
USER MENU
=====
1.Apply job
2.Update profile
3.View vacancy
  
```

```

+ Code + Text
USER MENU
=====
1.Apply job
2.Update profile
3.View vacancy
4.Feedback
5.Exit
****
Enter User choice:1
Application
Enter your name:abc
enter your phone number:1234567891
enter your email:ab@gmail.com
Qualification
1.SSLC
2.+2
3.B.com
4.Btech
Enter Your Choice :3
1.Accountant
2.Bussiness development executive
3.Management trainee
enter your job choice3
upload resume
1.Yes
2.No
Enter your choice :1

```

```

+ Code + Text
Enter Your Choice :3
1.Accountant
2.Bussiness development executive
3.Management trainee
enter your job choice3
upload resume
1.Yes
2.No
Enter your choice :1
Resume uploaded
Do yo want to Apply
1.Yes
2.No
Enter Your Choice :1
successfully applied
THANK YOU!
=====
USER MENU
=====
1.Apply job
2.Update profile
3.View vacancy
4.Feedback
5.Exit
****

```

```

+ Code + Text
Enter User choice:3
View Vacancy
+-----+
| Job Title | No.of Vacancy |
+-----+
| Delivery boy | 5 |
+-----+
| Delivery girl | 2 |
+-----+
| Security guard | 7 |
+-----+
| Data Entry | 10 |
+-----+
| Video editor | 3 |
+-----+
| Sales executive | 1 |
+-----+
| Office Assistant | 4 |
+-----+
| Accountant | 8 |
+-----+
| Bussiness development executive | 7 |
+-----+
| Management trainee | 2 |
+-----+

```

```

+ Code + Text
=====
USER MENU
=====
1.Apply job
2.Update profile
3.View vacancy
4.Feedback
5.Exit
****
Enter User choice:4
Feedbacks :-

SUBMIT FEEDBACK
Enter Your Feedback: it was a good site
=====
USER MENU
=====
1.Apply job
2.Update profile
3.View vacancy
4.Feedback
5.Exit
****
Enter User choice:5
End of Main Code through User

```

```

+ Code + Text
5.Exit
****
Enter User choice:5
End of Main Code through User
End of Main Code through Login.
WELCOME
=====
HOME
=====
1.Register
2.Login
3.Exit
****
Enter your choice:2
=====
MAIN MENU
=====
1.USER
2.ADMIN
3.Exit
****
Enter login choice:2
Enter your username:ABC
Enter your password:ABC12
login sucessfully

```

```

login sucessfully
=====
ADMIN MENU
=====
1.View candidates
2.Updated profile
3.View feedback
4.Exit
****
:Enter Admin choice:1
+-----+-----+
| Candidate Name | Applied Position |
+-----+-----+
| Anooja         | Automation Engineer |
+-----+-----+
| Alna           | Data Entry          |
+-----+-----+
| Nandana        | Delivery girl        |
+-----+-----+
| Amal           | 2D designer          |
+-----+-----+
| Ajil           | Delivery boy         |
+-----+-----+
| Vishnu         | Sales Executive      |
+-----+-----+

```

```

+ Code + Text
****
:Enter Admin choice:1
+-----+
| Candidate Name | Applied Position |
+-----+
| Anooja         | Automation Engineer |
+-----+
| Alna           | Data Entry           |
+-----+
| Nandana        | Delivery girl        |
+-----+
| Amal           | 2D designer         |
+-----+
| Ajil           | Delivery boy         |
+-----+
| Vishnu         | Sales Executive      |
+-----+
| Uma            | Office Assustant     |
+-----+
| Aswathy        | Bussiness development Executive |
+-----+
| Anooja         | DataEntry            |
+-----+
| Abhijith       | Accountant           |
+-----+

=====
ADMIN MENU
=====
1.View candidates
2.Updated profile
3.View feedback
4.Exit
****
:Enter Admin choice:2

```

Activate Windows
Go to Settings to activate Windows.

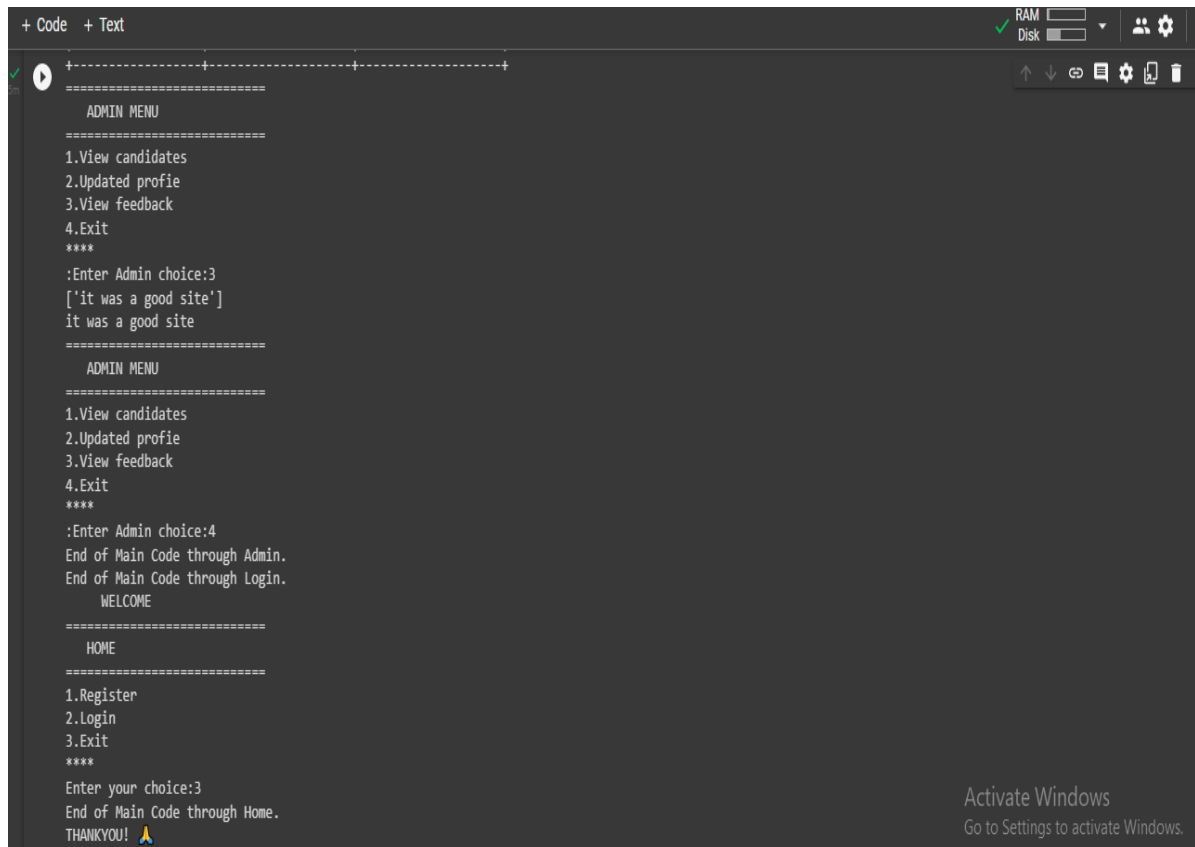
```

+ Code + Text
ADMIN MENU
=====
1.View candidates
2.Updated profile
3.View feedback
4.Exit
****
:Enter Admin choice:2
+-----+
| Candidate Name | Applied Position | Updated Position |
+-----+
| Nandana        | Delivery girl    | Video editor     |
+-----+
| Uma            | Office Assustant | Accountant       |
+-----+

=====
ADMIN MENU
=====
1.View candidates
2.Updated profile
3.View feedback
4.Exit
****
:Enter Admin choice:3
['it was a good site']
it was a good site
=====
ADMIN MENU
=====
1.View candidates
2.Updated profile
3.View feedback
4.Exit
****

```

Activate Windows
Go to Settings to activate Windows.



```
+ Code + Text
=====
ADMIN MENU
=====
1.View candidates
2.Updated profile
3.View feedback
4.Exit
****
:Enter Admin choice:3
['it was a good site']
it was a good site
=====
ADMIN MENU
=====
1.View candidates
2.Updated profile
3.View feedback
4.Exit
****
:Enter Admin choice:4
End of Main Code through Admin.
End of Main Code through Login.
WELCOME
=====
HOME
=====
1.Register
2.Login
3.Exit
****
Enter your choice:3
End of Main Code through Home.
THANKYOU! 🙏

Activate Windows
Go to Settings to activate Windows.
```

CHAPTER 3

3.1 Conclusion

To conclude, this system allows us to hire candidates from all over the world who have requisite knowledge and are well efficient. This can be used by both admin and user in a very simple way. Both admins and users can update various things based on their needs. Users can easily get the details about the jobs they want, give the feedbacks and also check vacancies in it.

3.2 Advantages

- It's cost – effective
- Easy to access the system anywhere and anytime
- Time Saving
- Minimized hiring cost

3.3 Disadvantages

- Requires an active internet connection
- It can be difficult to measure their effectiveness
- It can affect communication