

**A**  
**PROJECT REPORT**  
**ON**  
**Online Job Portal**

*Submitted by*

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**For Partial Fulfillment of the Requirements for Bachelor of Technology in Information  
Technology**

**IT446: Major Project**

**Guided by**

**Prof. Bijal Dalwadi**

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**Birla Vishvakarma Mahavidyalaya Engineering College**  
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**Gujarat, INDIA**



**Birla Vishvakarma Mahavidyalaya Engineering College**

**(An Autonomous Institution)**

**Information Technology Department**

**AY: 2019-20, Semester II**

## CERTIFICATE

This is to certify that the project work entitled **Online Job Portal** has been successfully carried out by **Mahek Katariya(16IT416), Nigam Patel(16IT419), Harsh Shah(16IT435)** for the subject **IT446-Major Project** during the academic year 2019-20, Semester-II for partial fulfilment of Bachelor of Technology in Information Technology. The work carried out during the semester is satisfactory.

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Guide, IT Department

BVM

**Dr. Keyur Brahmbhatt**

Head, IT Department

BVM

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## **Abstract**

Job portal service was developed for creating an interactive job vacancy form for candidates. This web application manage updates both from the job seekers as well as the companies. It's unique development methodology helps in acquiring the client and candidate information and separating them according to the job requirements and vacancies.

The online access to it provides details of the job. An employer being registered in the web site has the facility to use the services. Being an authorized user he can publish vacancy details and can search no of Employees on portal and also he can search candidates on basis of the key skill which employee provides on registration.

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# **Chapter 1 : Introduction**

## **1.1 Brief Overview of Work**

Now a day, we know that searching of jobs is so difficult in proficient areas the portal developed for the providing the simple and good job searching. With the help of this portal easily the job seeker can submit their resume and get the lot of opportunity of the job related to their profile. And by this website the companies or employer can also find the good and well profiled resume.

## **1.2 Objective**

The online job Portal System that is to be developed provides the members with jobs information, online applying for jobs and many other facilities. This system provides service to the job applicants to search for working opportunities.

Job Portal will allow job provider to establish one to one relationships with candidates. This Portal will primarily focus on the posting and management of job vacancies. This system is designed such that ultimately all vacancies will be posted online and would offer employers the facilities to post their vacancies online. It helps to review and manage the resulting applications efficiently through the web. Employer can also find the resume according to key skill in very less amount of time.

## **1.3 Scope**

As of Indian market, there is ample opportunities for the job portal sites, as more and more number of educated and skilled young people are coming out each and every year. Also, as the growth rate of India is zooming to be at a healthy rate over 7%, so it is boom time for corporate also. So, more and more number of lucrative careers will be available for the job seekers. So, it is now the right period for the job portal sites to think out of the box, and to make most of the opportunities available.

## **1.4 Project Modules**

### **1.4.1 Registration**

Employee or Employer can register with valid details like contact details, experience details, profile details.

### **1.4.2 Search**

Employee Can Search job according to their interest. And also apply for that job.

Employer search candidates for their requirements using keyword. Employer also can communicate with employee for their any other query or information via send message.

### **1.4.3 Job Post**

Employer post job for their organization. And include job vacancy, salary details, working hours, designation details, experienced details.

### **1.4.4 Manage Account**

Employee can also delete his/her account anytime.

Admin Can Manage Employee and Employer Details. Admin observed Users Action like job posting, candidate details false or not.

## **1.5 Project Requirements**

### **1.5.1 Hardware**

The system requires the following hardware:

- RAM: 1 GB (further increase that as per requirement.)
- Hard Disk: 80 GB (further increase that as per requirement.)
- Display: 1024 \* 768, True Type Color-32 Bit
- Mouse: Any Normal Mouse.
- Keyboard: Any window Supported Keyboard.

### **1.5.2 Software**

- Database Server : Microsoft SQL Server
- Web Server : Internet Information Server
- Technologies : HTML,CSS,ASP.NET,JavaScript,JQuery

## **1.6 Company Profile**

TatvaSoft is a CMMi Level 3 and Microsoft Gold Certified Software Development company that offers custom software development services on diverse technology platforms, like Microsoft, Java, PHP, Open Source, BI, and Mobile.

With rich and varied experience of 18+ years in software development and stringent quality standards, we offer utmost qualitative, on-time and cost-effective software solutions. We serve clientele across the industries and globe with Offices in US, Canada, UK, Australia and Development Center in India with a workforce of 810+ IT professionals.

We specializes in solving complex business challenges using thought process and information technology, and so far we have successfully completed 1800+ projects with 700+ SMEs and Fortune 500 companies.

## **Chapter 2 : System Analysis**

### **2.1 Literature Review**

Job Procurement: Old and New Ways Job seeking usually involves different ways to look for jobs such as through personal contacts, direct telephone calls to employers, job agency office, scanning online job listings, etc. Before the Internet, became widely uses as a method of seeking jobs, jobseekers spent a lots of time using various methods to look for job openings. Today, jobseekers use online methods which are very convenient and save a lot of time. Galanaki lists the following methods to be the traditional (old) ways for recruitment:

- 1) Employment recruitment agencies
- 2) Job fairs
- 3) Advertising in the mass media such as newspapers
- 4) Management Consultants
- 5) Advertisement in television and radio
- 6) Existing employee contacts
- 7) Schools colleges or universities students services department
- 8) Workers or professional referrals

These old job seeking methods are too slow, stressful, challenging and also lack quality. In addition, the applicants have to consider the cost and the amount of time to get the information they need, and other preparations they have to make. Finding all available job vacancies is a main step at in the job-seeking process. The Internet is now a powerful tool that jobseekers can use. Today, there are many sites that advertise job positions to be filled by people with certain skills in various fields. The Internet plays an important role in the area of human resource planning and development. Most planning and development organizations are now using computer technology and the Internet for staff recruitment. It should be noted that although the Internet has facilitated the process of job-seeking, it has not replaced the traditional methods, completely.

### **Importance of Job Portals**

In the age of technology, the Internet has become the main source of information for jobseekers. Large corporations, Institutions, and universities include information on career Prospects on their websites. According to a survey, 70% of the workforce uses websites or portals on the Internet to

Search for jobs in France. These websites or portals provide search engine to access information on job opportunities.

## **2.2 Project Feasibility Study**

### **2.2.1 Technical Feasibility**

Technical feasibility study is concerned with specifying equipment and software that will successfully satisfy the user requirement; the technical needs of the system may vary considerably.

The facility to produce outputs in a given time. Our project is a web based application which is based on client-server based application. In this application every page as output is render from server to client so it is necessary that the page should be rendered in time. For this I have avoided more and more code in the page- load event.

### **2.2.2 Economical Feasibility**

Economical feasibility is the measure to determine the cost and benefit of the proposed system. A project is economical feasible which is under the estimated cost for its development. These benefits and costs may be tangible or intangible. Job Portal is the cost-effective project in which there is less possibility of intangible cost so there is no difficulty to determine the cost of the project.

### **2.2.3 Operational Feasibility**

Operation feasibility is used to check whether the project is operationally feasible or not. Our project is mainly different from the other system because of its web-support feature. So the measure for operational feasibility is something different from other system. Generally the operational feasibility is related to organization aspects.

The change determination is as such that early product were either a man or group of men or the jobs based manual but now a day with the advent of Internet technology.

## 2.4 Project Timeline Chart

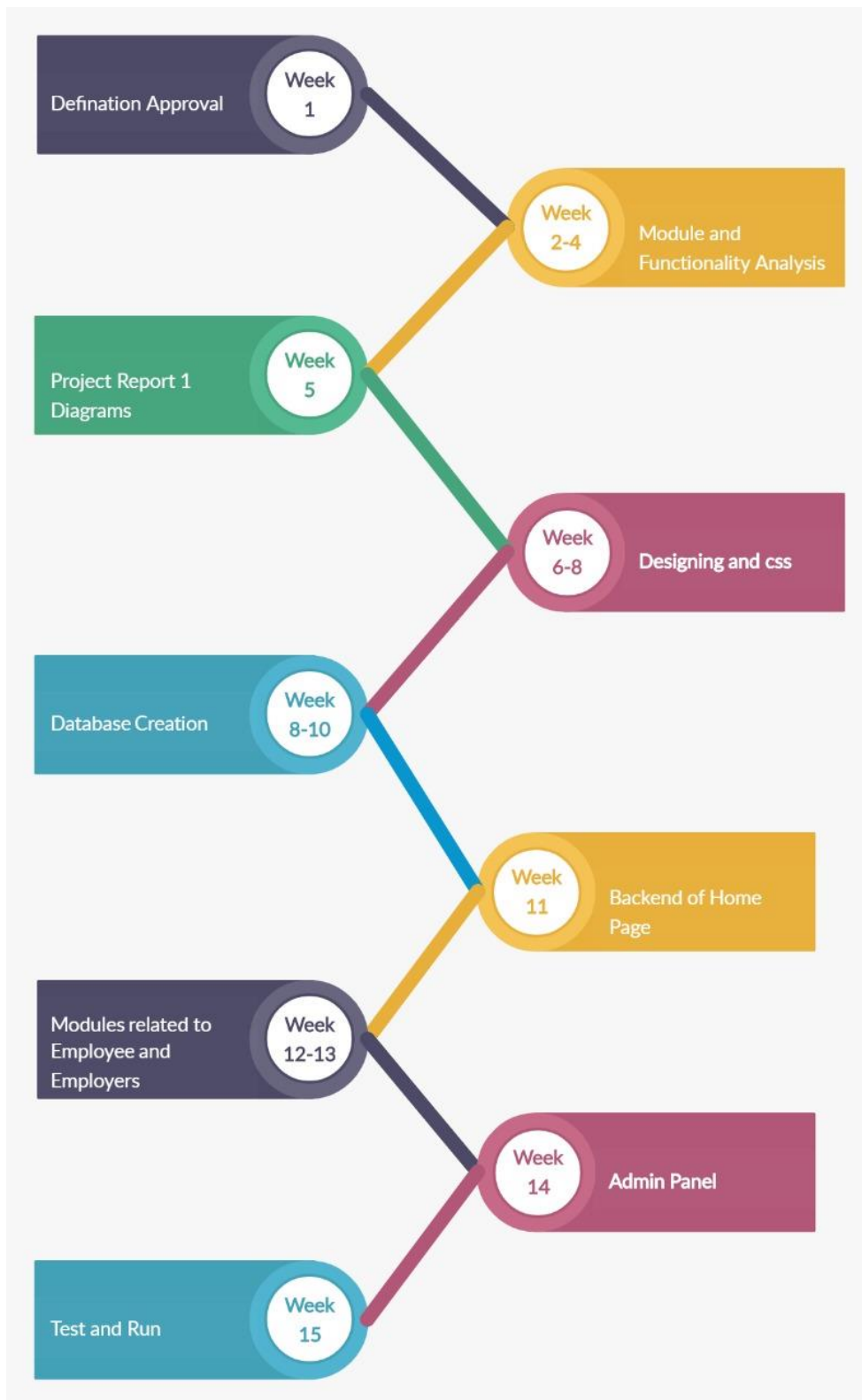


Figure 1- Timeline chart

## **2.5 Detailed Module Description with all Functionalities**

### **2.5.1 Registration**

In the registration module job seeker have to include all the details like personal details, contact details, education details like school , graduation, post-graduation, course certification details etc. Also job seeker has to add his experience details, job requirements and uploading resume and photo.

While job recruiter has to add his contact details and organization details for the registration and upload company logo and profile.

### **2.5.2 Job Post**

Employer can post a job by providing all the job details like qualifications details, requirements for the job, designation details, job salary details and also provide type of jobs. They also can delete the jobs whenever they want. After successfully posted a job it will be available for all the job seekers who are searching for a job. And it will be available on home page as recently posted job.

### **2.5.3 Search**

Employee Can Search job according to their interest. And also apply for that job or they can add into wishlist for future whenever they find for job for that company then they easily find out company from wishlist.

Employer search candidates for their requirements using keyword like technology. And also can communicate with employee for their any other query or information via send message .and also employer see the resume of applicants.

### **2.5.4 Manage Account**

While employers can manage their job postings. And providing all the job details like qualifications details, requirements for the job, designation details, job salary details and also provide type of jobs. They also can delete the jobs whenever they want.

While employee can manage their wishlist, applied for job and also getting full details of employer. Employees can delete their account anytime. Also they can apply for the different jobs according to their interests

## Chapter 3 : System Design

### 3.1 Use Case Diagrams

#### Use Case

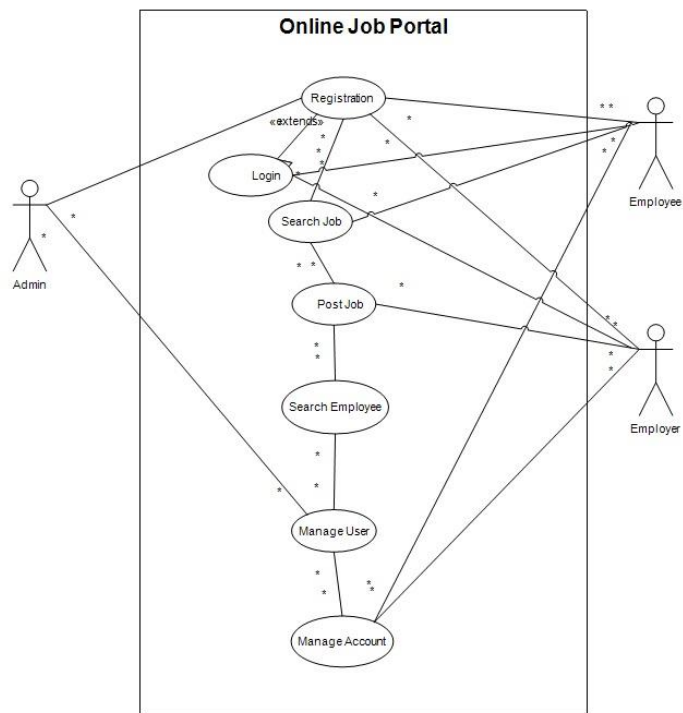


Figure 2- Usecase Diagram



## 3.2 Data Flow Diagrams

### 3.2.1 Context-Level (Level 0) DFD

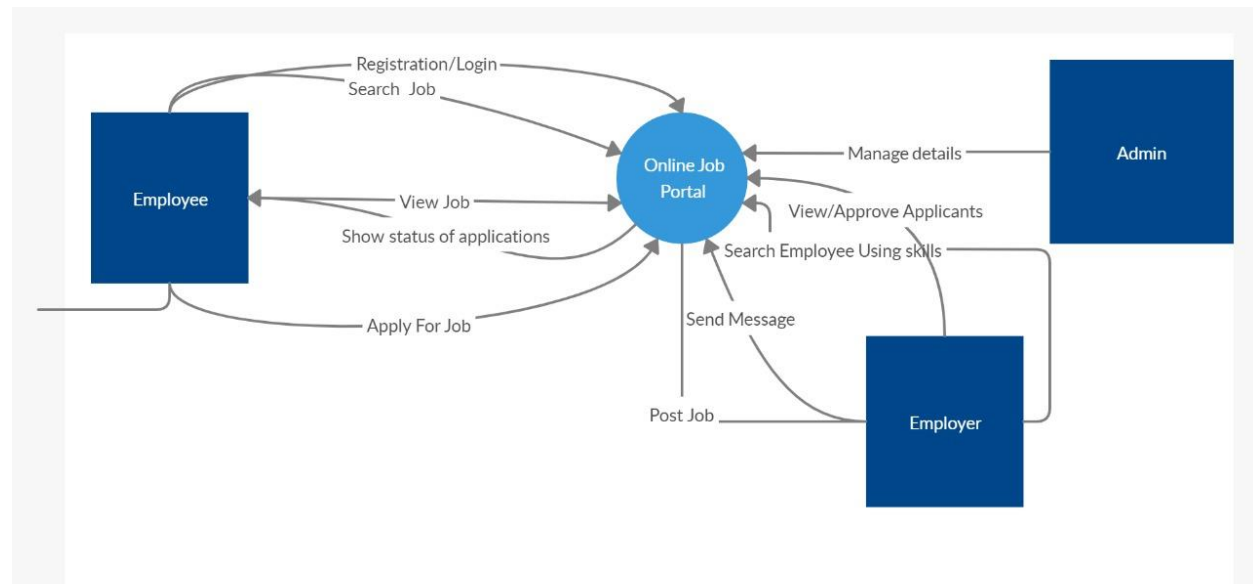


Figure 3- DFD 0 level Diagram

### 3.3.2 Level 1 DFD

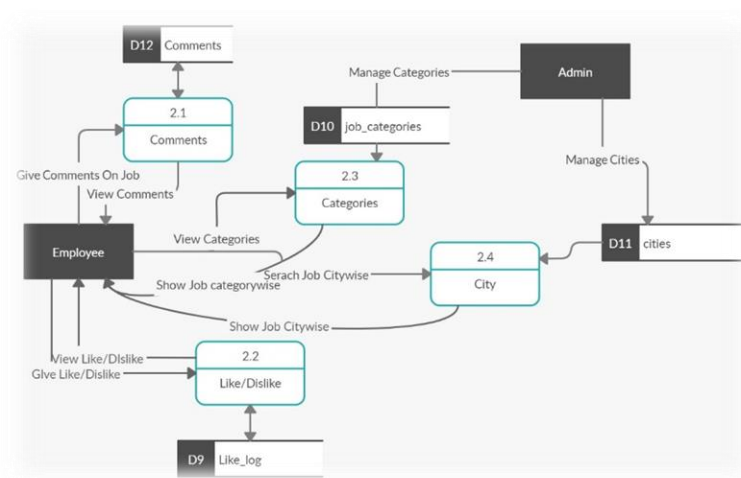


Figure 4- DFD 1 level Diagram

### 3.2.2 Level 2 DFD

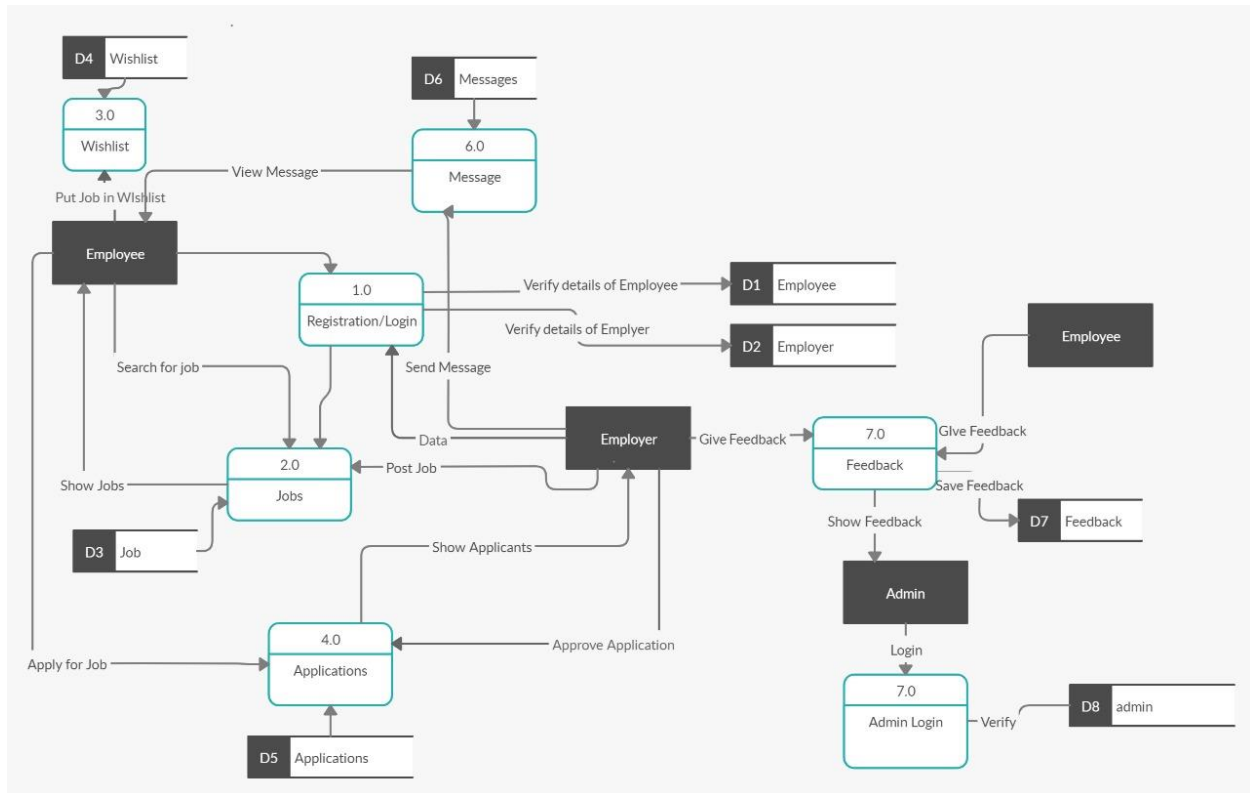


Figure 5- DFD 2 level Diagram

### 3.3 Class Diagram

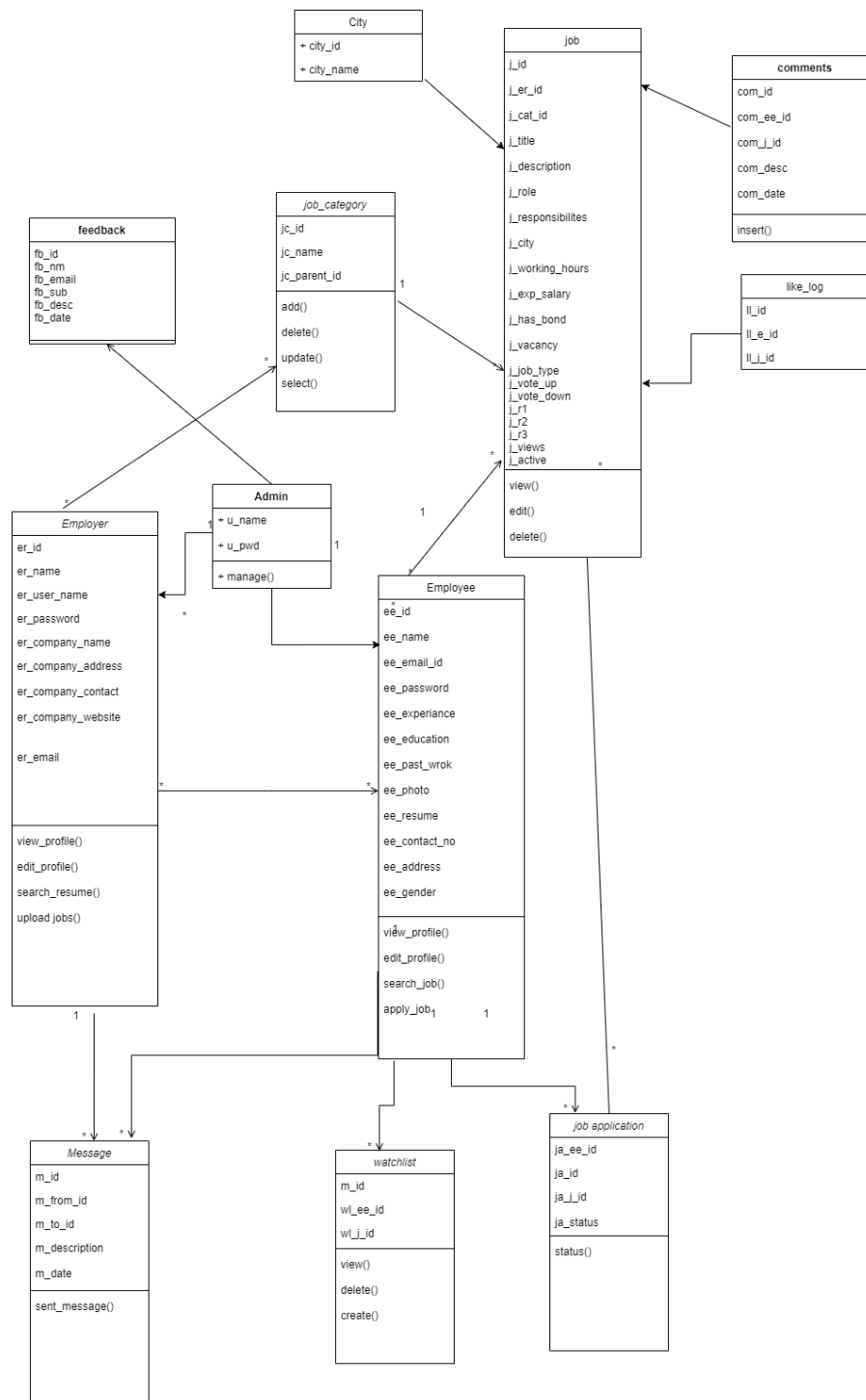


Figure 6- Class Diagram

### 3.4 Entity Relationship Diagram

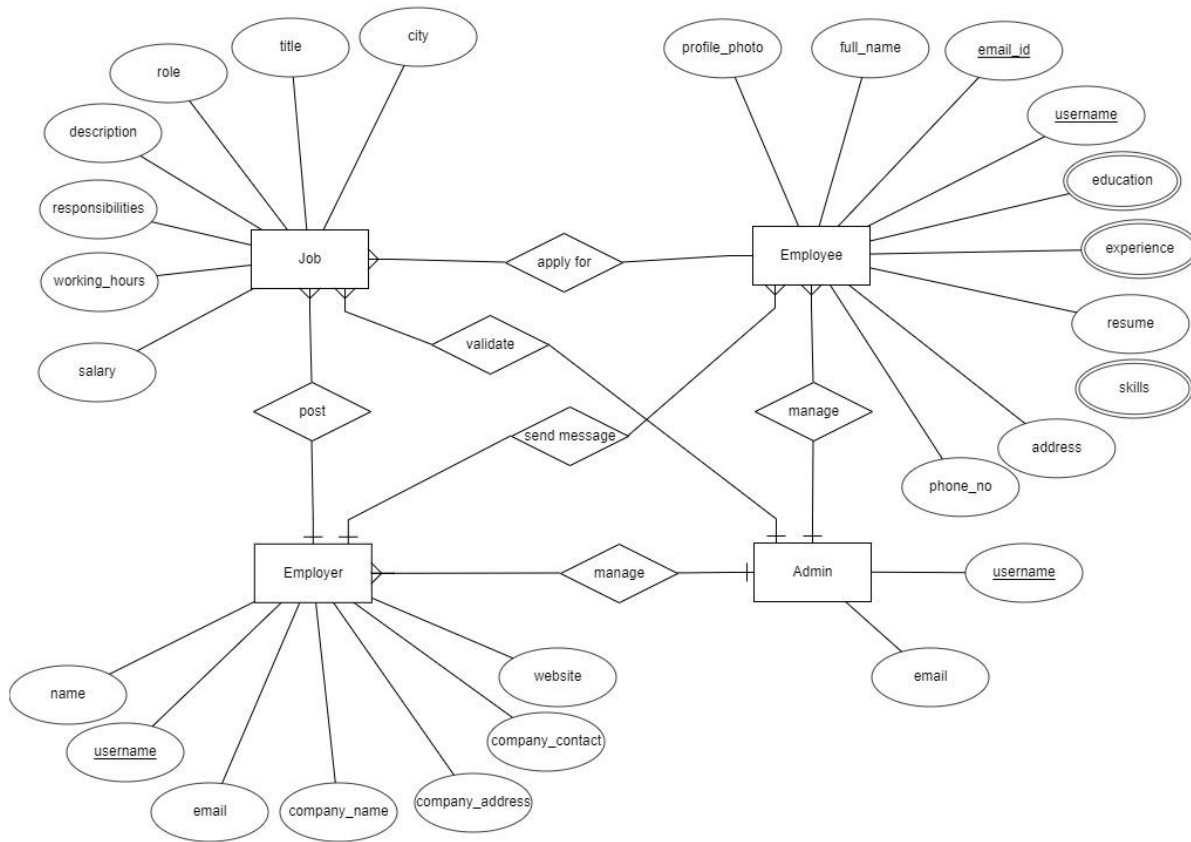


Figure 7- ER Diagram

### 3.5 Activity Diagram

#### 3.5.1 Employer

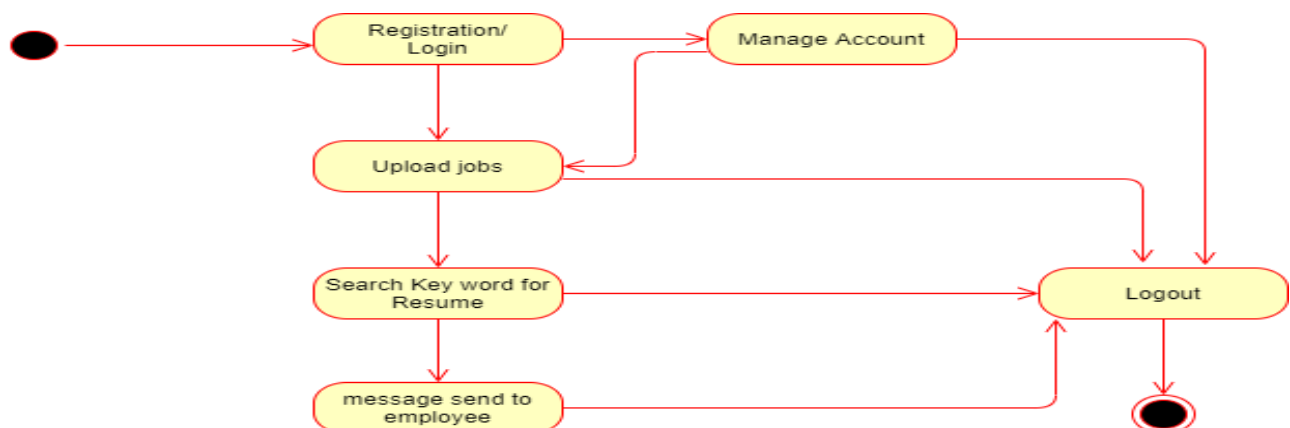


Figure 8- Employer Activity Diagram

### 3.5.2 Employee

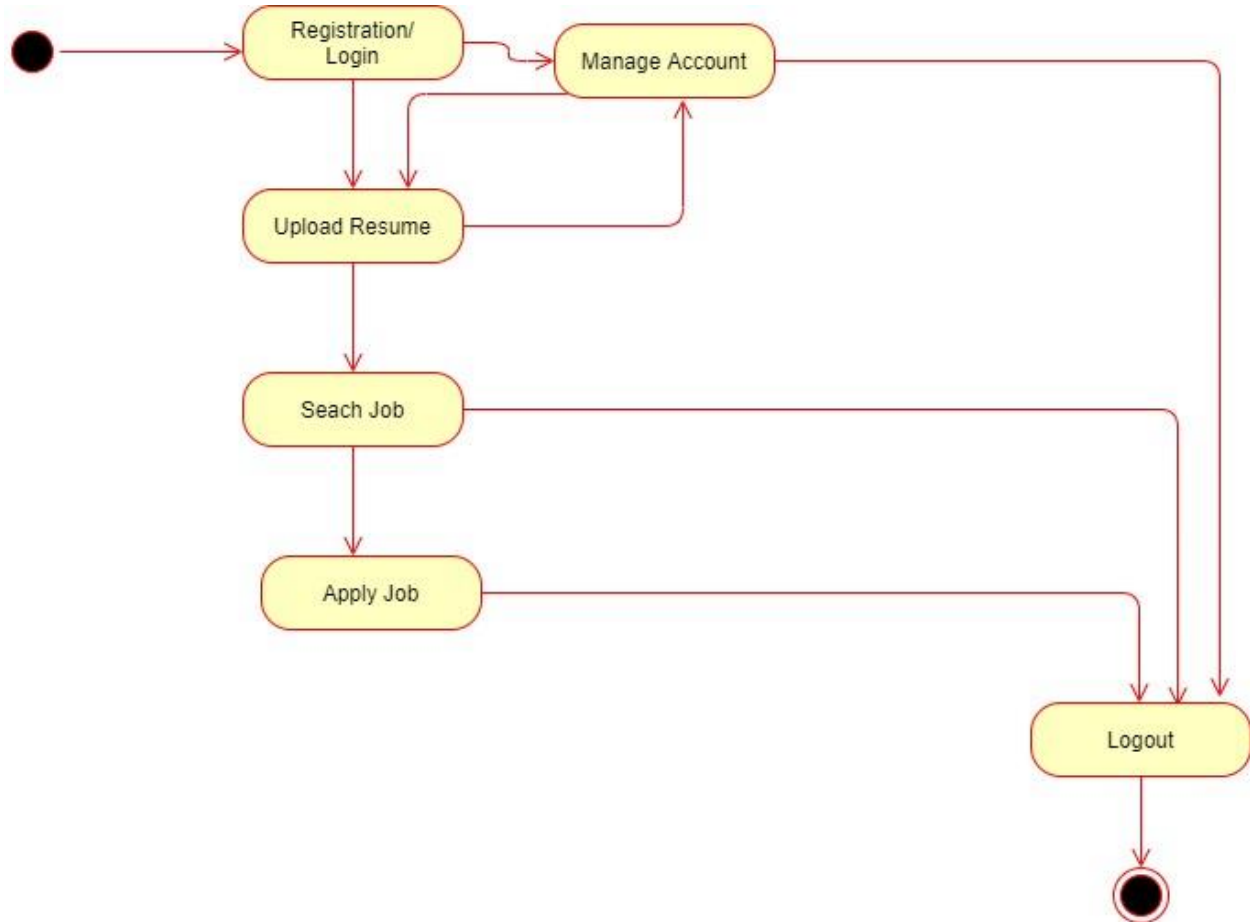


Figure 9- Employee Activity Diagram

### 3.5.3 Admin

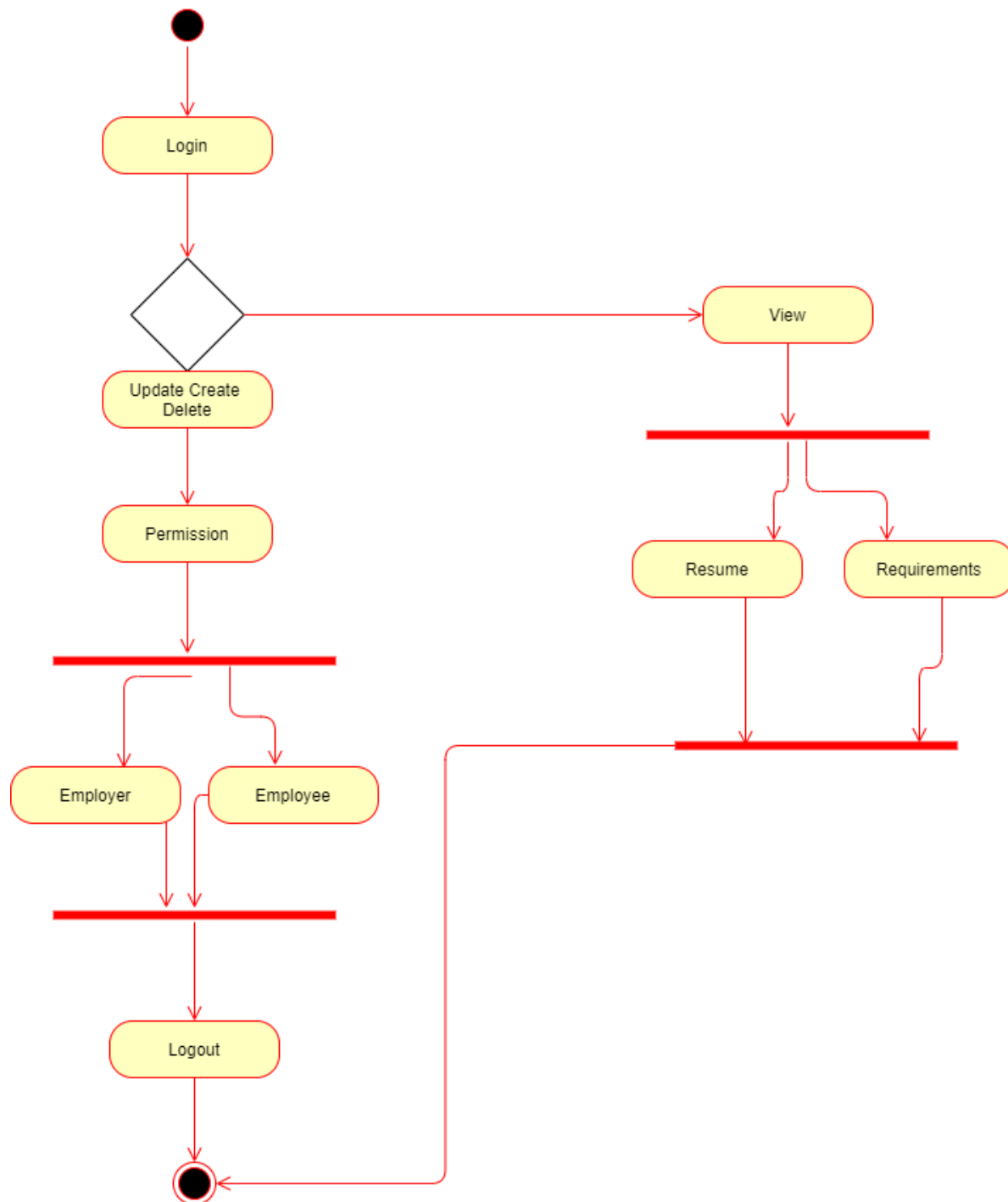


Figure 10- Admin Activity Diagram

### 3.6 Data Dictionary

Table 1- employer table

Table 1:				
Name:		employer		
Description:		Records information regarding employer.		
Fields				
Sr. No.	Field Name	Field Type	Constraints	Description
1	er_id	int	primary key	Holds unique id of employer.
2	er_full_name	varchar(50)	Null	Holds full name of the employer.
3	er_user_name	varchar(50)	Null	Holds user name of the employer.
4	er_email	varchar(50)	Null	Holds e-mail id of the employer.
5	er_pwd	varchar(50)	Null	Holds password of employer.
6	er_comp_name	varchar(50)	Null	Holds company name.
7	er_comp_address	text	Null	Holds company address.
8	er_comp_phone	varchar(20)	Null	Holds company phone number.
9	er_comp_web_add	varchar(50)	Null	Holds company website URL.
10	er_comp_fax	varchar(50)	Null	Holds company fax number.
11	er_comp_logo	varchar(max)	Null	Holds company logo.
12	er_comp_profile	varchar(max)	Null	Holds company profile
13	er_sec_que	varchar(50)	Null	Holds security question
14	er_sec_ans	varchar(50)	Null	Holds security answer

Table 2 – employee table

Table 2:				
Name:		employee		
Description:		Records information regarding employee.		
Fields				
Sr. No.	Field Name	Field Type	Constraints	Description
1	ee_id	int	primary key	Holds the employee-id.
2	ee_full_name	varchar(50)	Null	Holds full name of employee.
3	ee_user_name	varchar(50)	Null	Holds user name of employee.
4	ee_email	varchar(50)	Null	Holds email id of employee.
5	ee_pwd	varchar(250)	Null	Holds password of employee.
6	ee_education	varchar(50)	Null	Holds education detail of employee.
7	ee_experience	Int	Null	Holds experience detail of employee.
8	ee_past_work	Text	Null	Holds past work detail of employee.
9	ee_photo	varchar(255)	Null	Holds photograph of employee.
10	ee_resume	varchar(255)	Null	Holds resume of employee.
11	ee_phone_no	varchar(50)	Null	Holds phone no of employee.
12	ee_address	Text	Null	Holds address of employee.
13	ee_gender	Char(1)	Null	Holds gender of employee.



14	ee_sec_que	varchar(50)	Null	Holds security question of employee
15	ee_sec_ans	varchar(50)	Null	Holds security answer of employee
16	ee_first_login	int	Null	Holds status
17	ee_ks1	varchar(50)	Null	Holds key skill 1
18	ee_ks2	varchar(50)	Null	Holds key skill 2
19	ee_ks3	varchar(50)	Null	Holds key skill 3
20	ee_int_city	varchar(50)	Null	Holds interested city
21	ee_int_category	varchar(50)	Null	Holds interested category
22	ee_int_sub_category	varchar(50)	Null	Holds interested sub category

Table 3- job\_category table

Table 3:				
Name:		job_category		
Description:		Record information about categories of job.		
Fields				
Sr. No.	Field Name	Field Type	Constraints	Description
1	jc_id	Int	primary key	Holds id of job category.
2	jc_name	varchar(50)	not null	Holds job category name.
3	jc_parent_id	Int	foreign key	Holds id of parent category.

Table 4- job table

Table 4:				
Name:		Job		
Description:		Records information about job posted by recruiter.		
Fields				
Sr. No.	Field Name	Field Type	Constraints	Description
1	j_id	int	primary key	Holds id of job.
2	j_er_id	int	foreign key	Holds id of employer.
3	j_jc_id	int	foreign key	Holds id of job category.
4	j_sub_cat_id	Int	Foreign key	Holds id of job sub category
5	j_title	varchar(150)	Null	Holds title of the job.
6	j_exp_required	varchar(50)	Null	Holds job experienced required
7	j_min_edu	varchar(50)	Null	Holds job minimum education
8	j_desc	Text	Null	Holds description of job.
9	j_role	Text	Null	Holds role of job.
10	j_respo	Text	Null	Holds responsibilities of job.
11	j_city	varchar(50)	Null	Holds city name of job.
12	j_work_hours	Int	Null	Holds working hours detail of job
13	j_exp_salary	varchar(50)	Null	Holds expected salary of job.
14	j_has_bond	varchar(50)	Null	Holds information of bond information.

15	j_vacancy	varchar(50)	Null	Holds information of vacancy
16	j_job_type	varchar(50)	Null	Holds information of job type
17	j_post_date	varchar(50)	Null	Holds information of job post date
18	j_vote_up	Int	Null	Holds information of job likes.
19	j_vote_down	Int	Null	Holds information of job dislikes.
20	j_views	Int	Null	Holds information of job views.
21	j_active	varchar(50)	Null	Holds information of job active or not

Table 5- job\_applications table

Table 5:				
Name:		job_applications		
Description:		Records information about job application		
Fields				
Sr. No.	Field Name	Field Type	Constraints	Description
1	ja_id	int	primary key	Holds the id of job application.
2	ja_ee_id	int	foreign key	Holds the id of employee.
3	ja_j_id	int	foreign key	Holds the information for which job applied.
4	ja_status	varchar(50)	not null	Holds the status of application of job.

Table 6- like\_log table

Table 6:				
Name:		like_log		
Description:		Records information about like.		
Fields				
Sr. No.	Field Name	Field Type	Constraints	Description
1	ll_id	int	primary key	Holds id of like.
2	ll_ee_id	int	foreign key	Holds id of employee.
3	ll_j_id	int	foreign key	Holds id of job.

Table 7- comments table

Table 7:				
Name:		comments		
Description:		Records information about comment which user does.		
Fields				
Sr. No.	Field Name	Field Type	Constraints	Description
1	com_id	int	primary key	Holds qualification type id
2	com_ee_id	int	foreign key	Holds type of qualification like
3	com_j_id	int	foreign key	Holds job id.
4	com_description	Text	Null	Holds comment description.
5	com_date	varchar(50)	Null	Holds date on which commented by user.

Table 8- watchlist table

Table 8:				
Name:		watchlist		
Description:		Record information about watchlist.		
Fields				
Sr. No.	Field Name	Field Type	Constraints	Description
1	wl_id	Int	primary key	Holds unique id watch list.
2	wl_ee_id	Int	foreign key	Holds watchlist id of employee.
3	wl_j_id	Int	foreign key	Holds watchlist id of job

Table 9- message table

Table 9:				
Name:		message		
Description:		Records information about message sent by user.		
Fields				
Sr. No.	Field Name	Field Type	Constraints	Description
1	m_id	number(10)	primary key	Holds the unique id for message id.
2	m_from_id	number(10)	foreign key	Holds the id of sender.
3	m_to_id	number(10)	foreign key	Holds the id of receiver.
4	m_description	text(100)	Null	Holds the description regarding message.
5	m_date	date	Null	Holds the date of message.

Table 10- feedback table

Table 10:				
Name:		Feedback		
Description:		Record information about feedback.		
Fields				
Sr. No.	Field Name	Field Type	Constraints	Description
1	fb_id	Int	Primary Key	Holds unique id for feedback.
2	fb_nm	varchar(50)	Null	Holds the name of feedback.
3	fb_email	Varchar(50)	Null	Holds the email of sender
4	fb_sub	varchar(50)	Null	Holds the subject of feedback.
5	fb_description	Text	Null	Holds description of feedback.
6	fb_date	varchar(50)	Null	Holds date of feedback.

Table 11- city table

Table 11:				
Name:		City		
Description:		Record information about city.		
Fields				
Sr. No.	Field Name	Field Type	Constraints	Description
1	city_id	Int	Primary Key	Holds unique id for city.
2	city_name	varchar(50)	Null	Holds the name of city.



## Chapter 4 : Implementation and Testing

### 4.1 User Interface and snapshots

#### Home Page

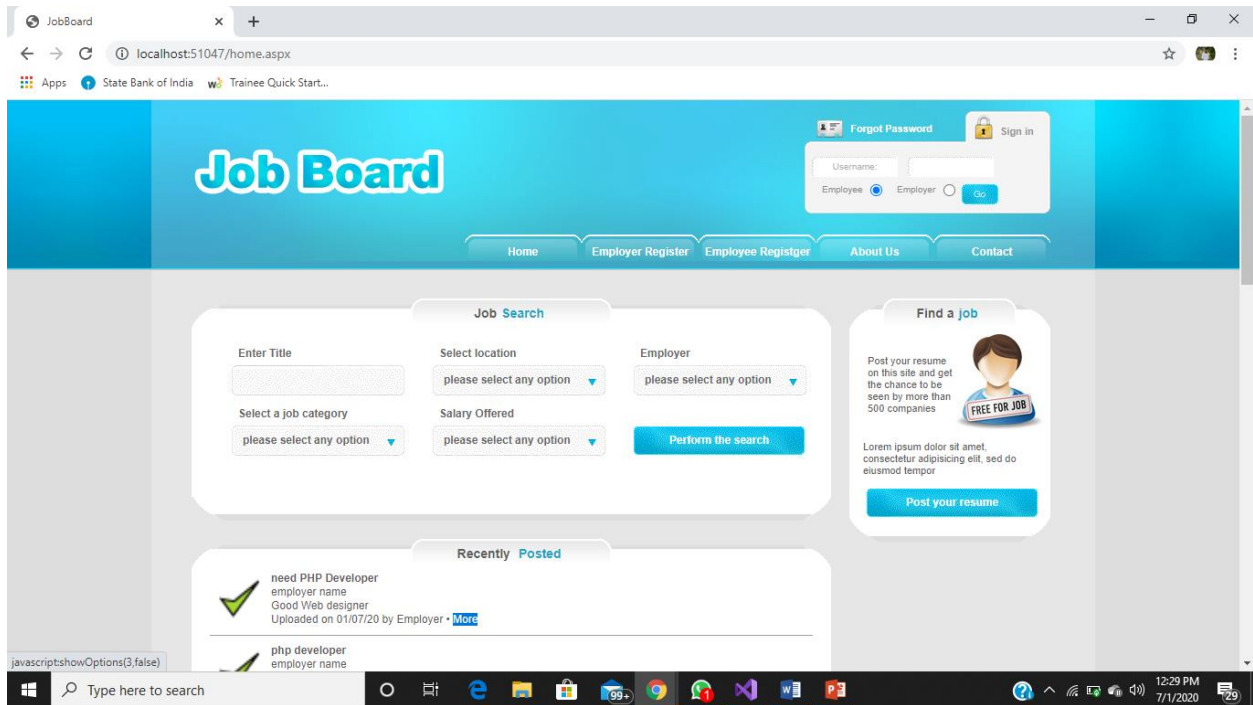


Figure 11- Home page I

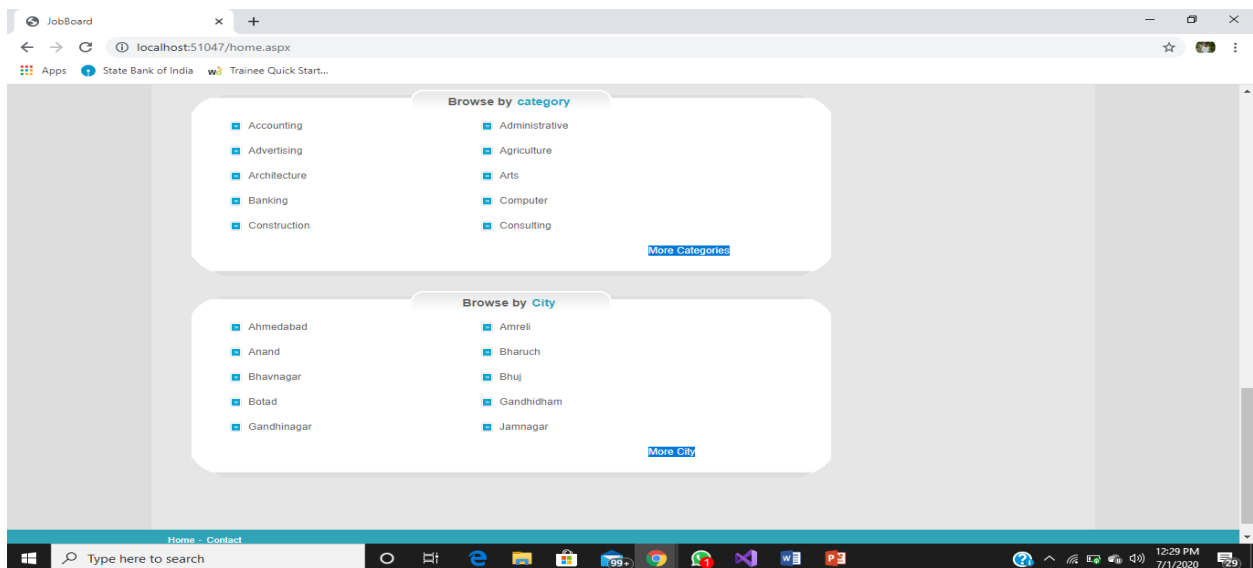


Figure 12- Home page II

## Employer Registration page

Job Board

Forgot Password Sign in

Username

Employee ☒ Employer ☐ Go

Home Employer Register Employee Register About Us Contact

**Employer Registration**

Full Name:

User Name:

E-mail ID:

Password:

Confirm Password:

Company Name:

Address:

Phone Number:

**Browse Categories**

- Accounting
- Administrative
- Advertising
- Agriculture
- Architecture

[More Categories](#)

**Browse Cities**

- Ahmedabad
- Amreli
- Anand
- Bharuch
- Bhavnagar

[More City](#)

Figure 13- Employer Registration page-I

Company Name:

Address:

Phone Number:

Website URL:

Fax No:

Logo:  No file chosen

Company Profile:  No file chosen

Security Question:

Security Answer:

**Browse Cities**

- Amreli
- Anand
- Bharuch
- Bhavnagar

[More City](#)

Home - Contact

Figure 14- Employer Registration page-II

## Employee key skill page

Figure 15- Employee key skill page

## Employee wish list page

Job Title:	Employer:	Category:	Location:	Salary:	Full Detail:	Delete From List
need PHP Developer	jigar	Computer	ahmedabad	1000000	<a href="#">More</a>	<a href="#">Delete</a>

Figure 16- Employee wish list page

## Employee my jobs page

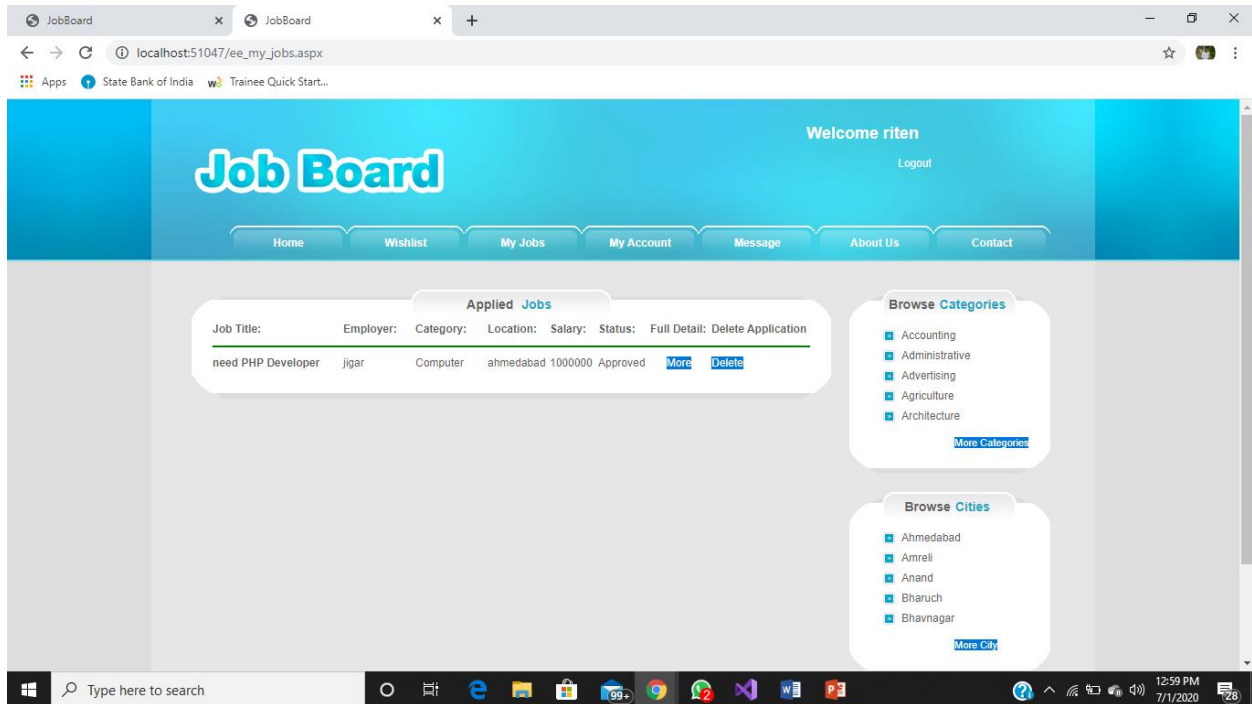


Figure 17- Employee my jobs page

## Employee my account page

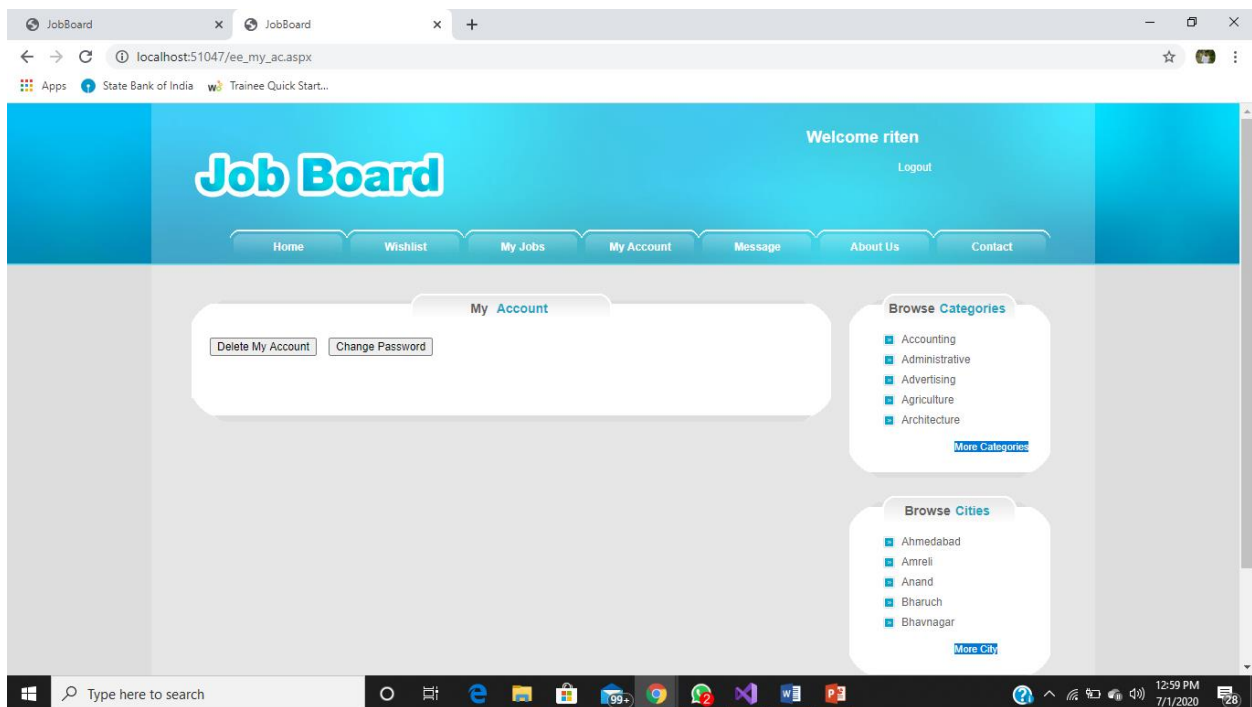


Figure 18- Employee my account page

## Employee message page

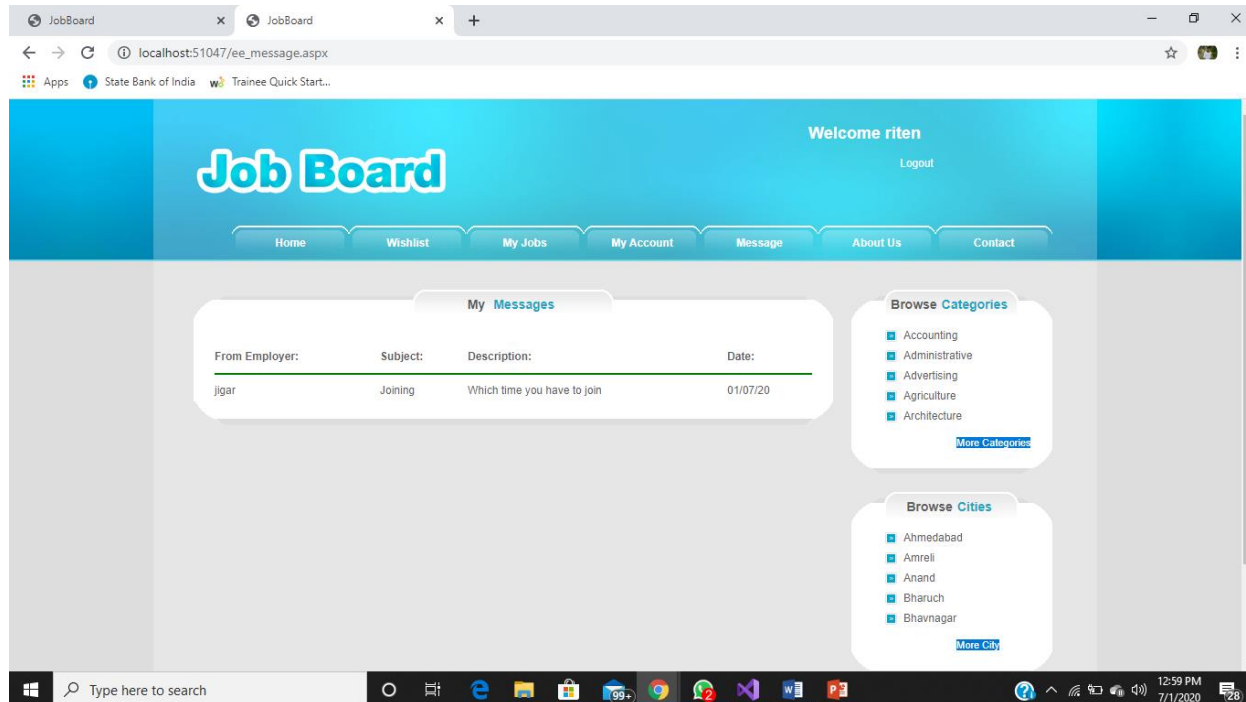


Figure 19- Employee message page

## Employer home page

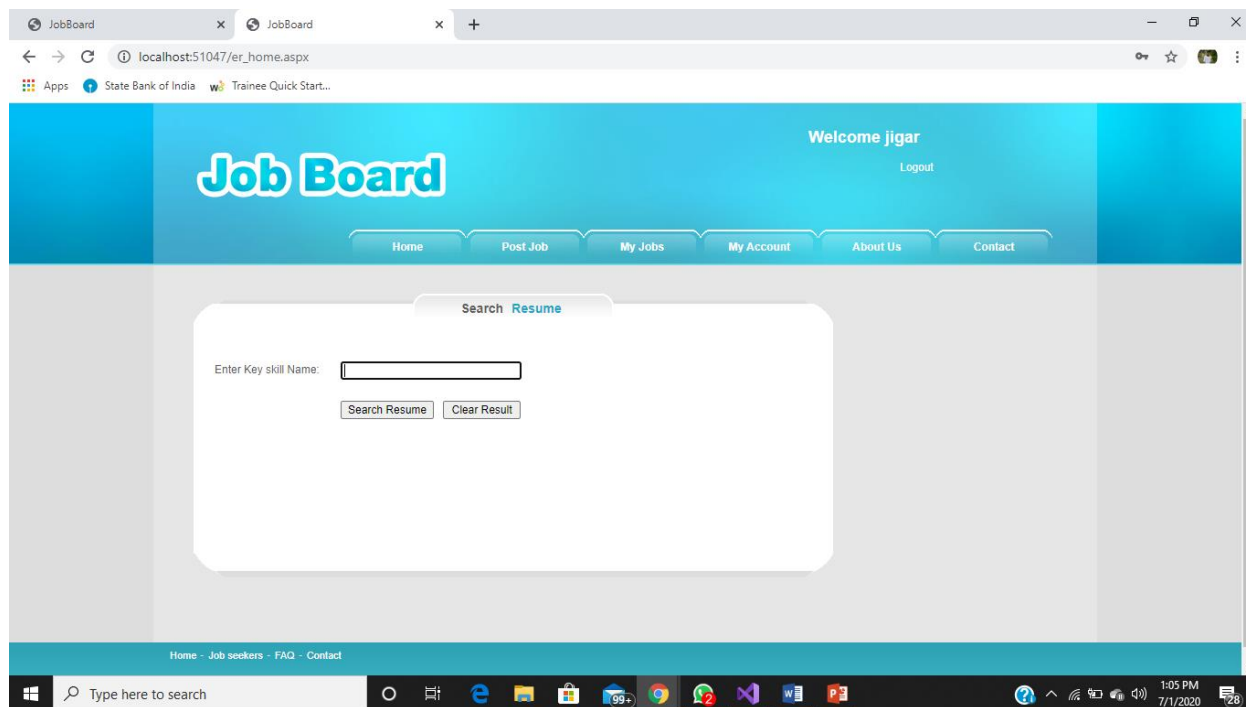


Figure 20- Employer home page

**Employer job post page**

Job Board

Welcome jigar  
Logout

Home Post Job My Jobs My Account About Us Contact

**Post Job**

Title:

Category:

Experience:

City:

Minimum Education:

Description:

Role:

**Browse Categories**

- Accounting
- Administrative
- Advertising
- Agriculture
- Architecture

[More Categories](#)

**Browse Cities**

- Ahmedabad
- Amreli
- Anand
- Bharuch
- Bhavnagar

[More City](#)

*Figure 21- Employer job post page-I*

Description:

Role:

Responsibilities:

Has Bond:

Job Type: ☒ Full Time ☐ Part Time

Vacancy:

Salary Offers:

Work Hours:

**Browse Cities**

- Amreli
- Anand
- Bharuch
- Bhavnagar

[More City](#)

Home Contact

*Figure 22- Employer job post page-II*

## Employer my jobs page

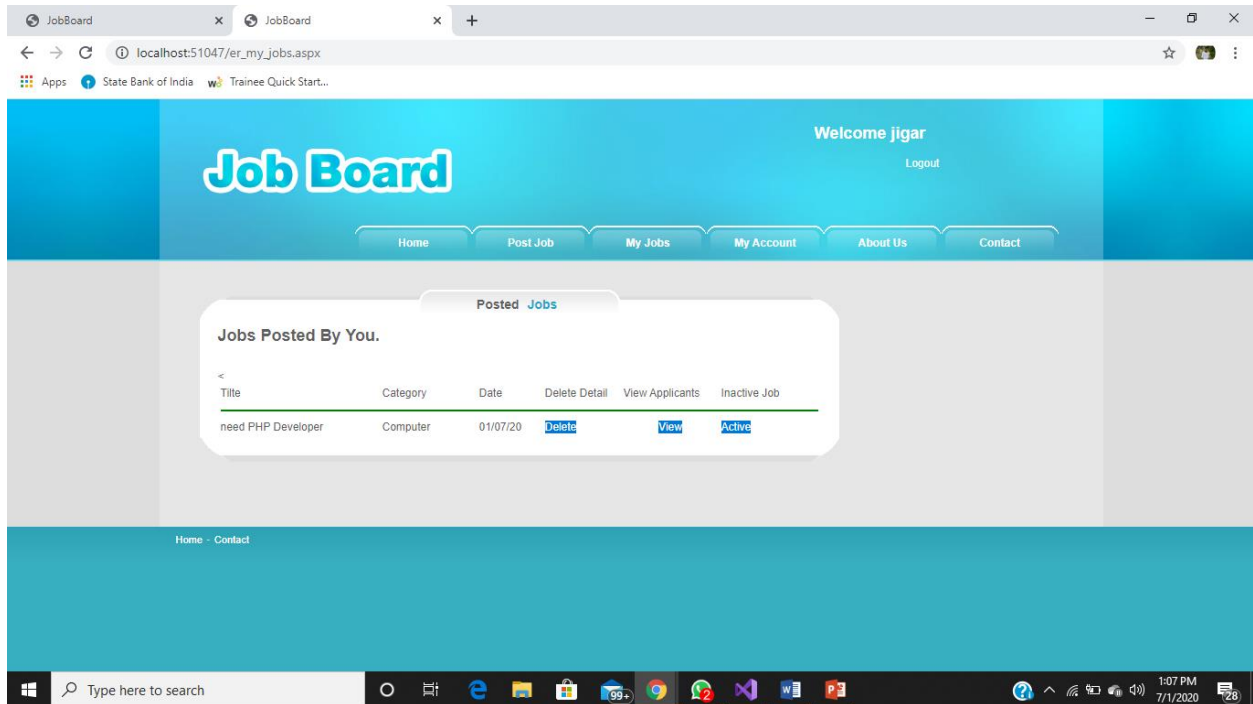


Figure 23- Employer my job page

## Employer view applicant page

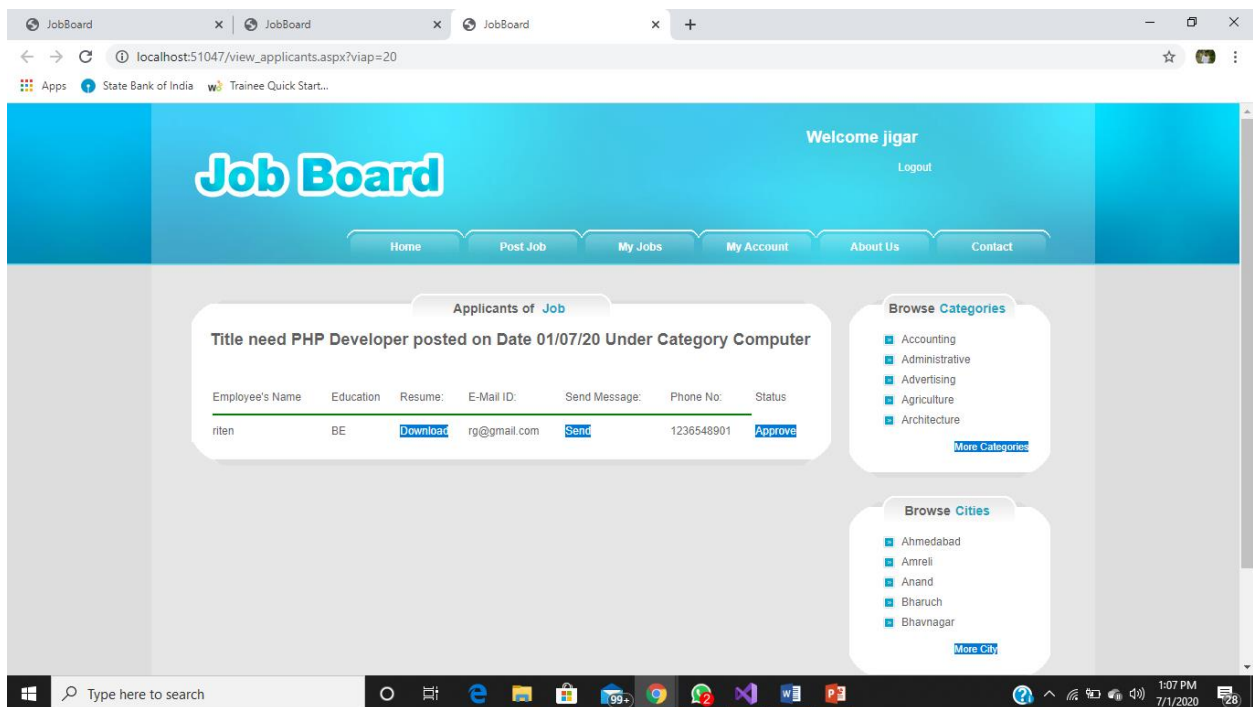


Figure 24- Employer view applicant page

## More details job page

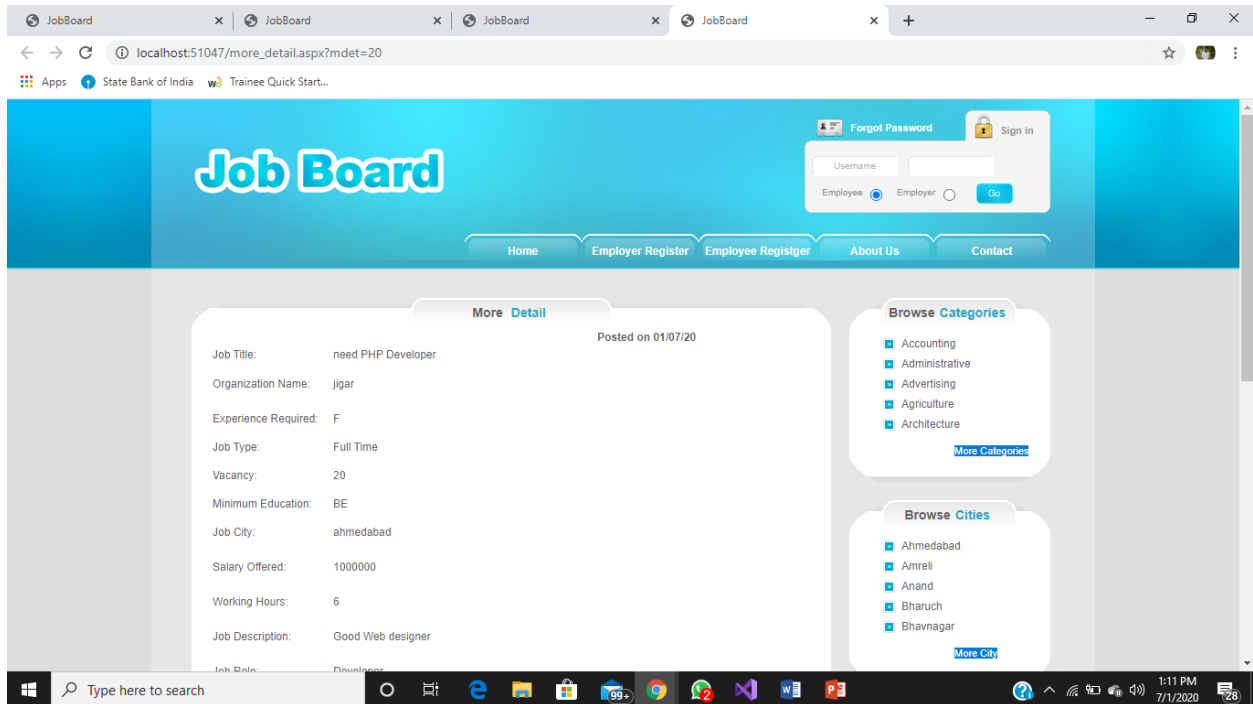


Figure 25- More details job page-I

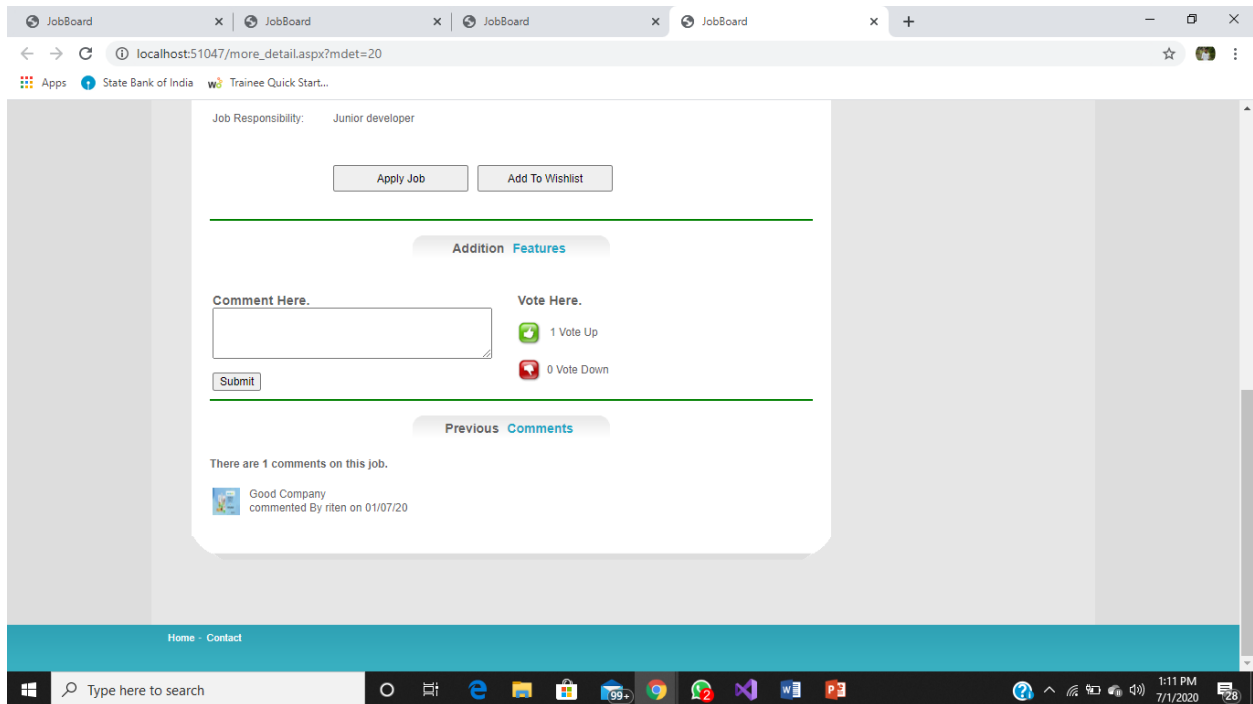


Figure 26- More details job page-II



## Admin Page

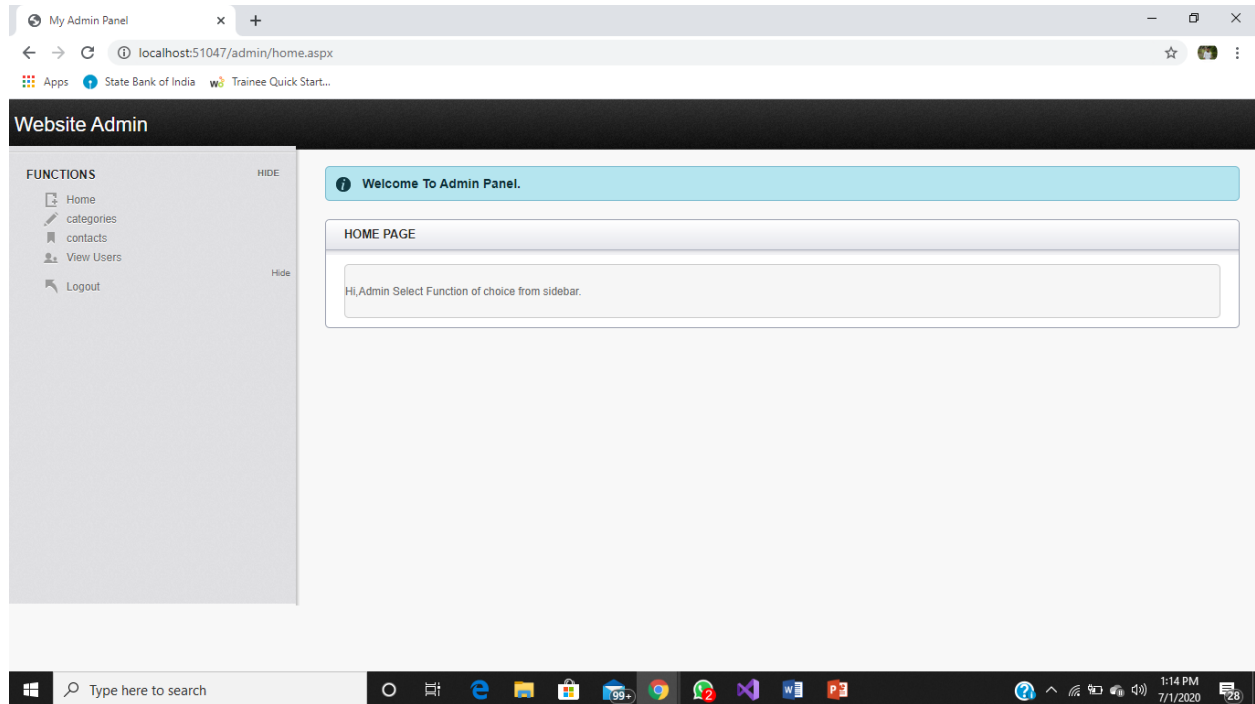


Figure 27- Admin page

## 4.2 Test Cases and Result

Table 12- Test Case

Test Case Id	Test scenario	Test steps	Test data	Expected result	Actual result
UU01	Create employer registration page	1. Open website and clicked on employer registration	Information of employer data to be added	Data is successfully added in employer table	As expected
UU02	Create employee registration page	1. Open website and clicked on employee registration	Information of employee data to be added	Data is successfully added in employee table	As expected
UU03	Crated login page for employer	1.open website and clicked on employer radio button 2. enter username and password	Employer enter valid data	Data is fetch from employer table	As expected
UU04	Crated login page for employee	1.open website and clicked on employee radio button 2. enter username	Employer enter valid data	Data is fetch from employee table	As expected

		and password			
UU05	Post Job page for employer	Employer login successfully then they post your job	Employer filed necessary data to require for recruit employee	Data is added successfully in Job table And also show home page in trending job	As expected
UU06	My job page for employer	Employer see the who is apply for posted job and also delete job and view applicant and active or inactive job them self	Employer see the applicants, delete job, active or inactive job	Successfully delete job and active or inactive job, and also full details of applicants.	As expected
UU07	View applicant page for employer	Employer see applicant name, education, email,id, Phone no and also download resume and	Employee download the resume, send message, approved applicant	Successfully download the resume, send message to employee, and approved or not approved.	As expected

		send message to employee for further query and approved applicant them self			
UU08	Create my account page for employer	1.click on change password then they can change password 2. click on delete account then they can delete account from portal	User change password then directly put new password. and delete account then first asked for security question and answer and it's verify then delete the account	Successfully change password and delete account	As expected
UU09	Add skills page for employee	Add skills, interested category, and interested city	Employee add their skills, selected city, interested category and also skip this	Successfully data added employee table	As expected

UU10	Wishlist page for employee	1.click on more details page of jobs then applied for add to wishlist	Employee see the employer name, category, location, salary, remove from wish list	Add into wishlist page successfully	As expected
UU11	My jobs page for employee	1.click on more details page of jobs then applied for add to my jobs	Employee see employer name, category , location, add to link for more details, check status of application it is approved or not and remove from my jobs	Add into my jobs page successfully	As expected
UU12	Create my account page for employer	1.click on change password then they can change password 2. click on delete account then	User change password then directly put new password. And delete account then first asked for security	Successfully change password and delete account	As expected

		they can delete account from portal	question and answer and it's verify then delete the account		
UU13	Message page for employee	Which employer send message employee can see	Employee see employer name, subject, Description, date	Successfully data fetch from message table	As expected
UU14	About us page	1.click on about us page	See the details of our	See the details of our	As expected
UU15	Contact page	1.click on contact page	User can any query then send message us	See the message of sender from admin side	As expected

## **Conclusion & Future work**

It has been a great pleasure for me to work on this exciting and challenging project. This project proved good for me as it provided practical knowledge of not only programming in ASP.NET web based application and no some extent Windows Application and SQL Server, but also about all handling procedure related with online job portal. It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future. This will provide better opportunities and guidance in future in developing projects independently.

## References

1. Literature review on online job portal  
<https://ijarcce.com/upload/2017/may-17/IJARCCE%2019.pdf>
2. <https://www.naukri.com/account/register/basicdetails>
3. <https://corp.freshersworld.com/post-job?src=homeheader>
4. <https://www.freshersworld.com/>