



INSTITUTE FOR ADVANCED
COMPUTING AND
SOFTWARE DEVELOPMENT
AKURDI, PUNE

Documentation On

**“E-JOB PORTAL MANAGEMENT
SYSTEM”**
e-DAC SEPT 2020

Submitted By:
Group No: 9

- 1.Amruta Vyavahare (2013)**
- 2.Rashi Gundapwar (2055)**

Prashant Karhale
Centre Coordinator

Mr.Chetan Pardeshi
Project Guide

Table of Contents

1. Introduction.....	1
Document Purpose	1
Problem Statement	1
Product Scope.....	1
Aim & Objectives.....	2
2. Overall Description.....	2
Product Perspective	2
Benefits of E-Job Portal Management System.....	2
User and Characteristics.....	3
Operating Environment	3
Design and Implementation Constraints	3
3. Requirements Specification	4
External Interface Requirements	4
Non-Functional Requirements	4
4. System Diagram	5
Activity Diagram	5
Data Flow Diagram	8
Use Case Diagram.....	11
ER Diagram.....	12
5. Table Structure	13
Admin.....	13
Company	13
Job Seeker	13
Job	14
Jobs_Application.....	14
FeedBack.....	14
6.Result.....	15
7.Conclusion	20
Future Scope.....	20
8.References	21

List of Figures

Figure 1 Admin Activity Diagram.....	5
Figure 2 Recruiter Activity Diagram.....	6
Figure 3 Job Seeker Activity Diagram.....	7
Figure 4: Level 0 Data Flow Diagram Admin.....	8
Figure 5: Level 1 Data Flow Diagram Admin.....	8
Figure 6: Level 2 Data Flow Diagram for Admin.....	8
Figure 7: Level 0 Data Flow Diagram for Recruiters.....	8
Figure 8: Level 1 Data Flow Diagram for Recruiters.....	9
Figure 9: Level 2 Data Flow Diagram for Recruiters.....	9
Figure 10: Level 0 Data Flow Diagram for Job Seeker.....	9
Figure 11: Level 1 Data Flow Diagram for Job Seeker.....	10
Figure 12: Level 2 Data Flow Diagram for Job Seeker.....	10
Figure 13 Use Case Diagram.....	11
Figure 14: ER Diagram.....	12

1. Introduction

The aim of this project is to develop an online search Portal for the Job. The system is an online application that can be accessed throughout the admin and outside as well with proper login provided. The System developed for job seeker and company. The System provide for intermediate place for Job seeker and company.

The project has been planned to be having the view of distributed architecture, with centralized storage of the database. The application for the storage of the data has been planned. Using the constructs of MY-SQL Server and all the user interfaces has been designed using the J2EE technologies.

The Company can easily get employee from our job portal site by posting a Job. The job portal website is a common place between job seeker and company.

When job seeker login in his account then he can apply for job or he can search of Company by Location and apply with match profile or education detail. So job seeker can easily apply to Job.

Document Purpose:

The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between Company and their Job seeker who are searching for job or employee. This E- Job Portal Management System is developed to provide the following services:

1) Admin (Root User of the application)

- Admin can perform the login in the application.
- Admin can View /Delete Recruiters (HR of the companies).
- Admin can View /Delete User (Jobseeker).

2) Recruiters (Companies)

- Recruiters will be responsible to add new jobs to the application.
- Recruiters can check the list of the users and information who applied for their job.

3) Job Seeker (End-user)

- Job Seekers can log in and register to manage their personal profile in the application.
- Job seekers can search for the job as per job location.
- Users can view jobs and apply for that Job.
- The user can Edit/Update his profile.

Problem Statement:

The job portal application is used to manage available jobs. Also an online platform for the job seeker, So end-user can search the available job applications on the respective jobs. At the same time, the recruiter or HR can view the applications and contact the candidates .So the communication between company and Job seekers are manage easily.

Product Scope:

This project traverses a lot of Company ,User and required to perform several researches to be able to achieve the project objectives. The area covers include:

- J2EE Technology used for the development of the application.
- Company (HR) and Job seekers will be able to use the system effectively.
- Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

Aims & Objectives:

Specific goals are: -

- Maintain Jobseeker And Recruiter record.
- Provide customized Job Posting.
- Jobseeker can apply to job as per their preferred location.
- Recruiters can see the job applied jobseeker data.
- Communication Between Company(HR) and Jobseeker becomes easy.

2.Overall Description

Product Perspective:

1. Existing system function:

Existing system for a Job portal is based on keeping records of applied users on admin side. Access of these details is only for an admin.

The job portal application is used to manage available jobs. Also an online platform for the job seeker, so end-user can search the available job applications on the respective jobs. At the same time, the recruiter or HR can view the applications and contact the candidates. Admin can see and manage the list of company and job Seekers register on portal.

This Online Job portal is in Spring and hibernate is a web application. that is using Spring MVC, Spring Boot, and Hibernate to manage the backend of the application.

2. Proposed System:

In this system there are 3 modules are as follows:

1. Admin:

Admin is a root user of the application who can perform the login in the application and after login admin can see the list of company as well as users who are register in application. Also admin can manage the list of company and user's .Admin can delete the account of company as well as user if any inappropriate activity performs.

2. Recruiters:

First Recruiters do registration in application. After registration recruiters can do easily login in application. Recruiters will be responsible to add new jobs to the application .Recruiters can check the list of users who applied for their jobs. Recruiters can send the interview mail or contact the user by phone number. Recruiters can also update their profile.

3. Job Seeker:

Job seekers can register and login to manage their personal profile in the application. Job seekers can see the list of jobs available in application and also search for jobs as per their preferred location. The Job seeker can Edit /Update his profile.

Benefits of E-Job Portal Management System:

- This E-Job Portal management System is fully functional and flexible.
- It is very easy to use.
- This E-Job Portal management system helps the company to hire the employee.
- This E-Job Portal management system helps the Job seekers to search job.
- It saves a lot of time and money.
- It increases the efficiency of the management at offering Jobs to the employee.

Users and Characteristics:

Admin:

- Admin can login to the system.
- View the list of all Recruiters.
- View the list of all Job seekers.
- View the list of all Job seekers.
- Delete Recruiters
- Delete Job seekers

Recruiters:

- Recruiters can register to the application.
- Recruiters can login to the application.
- Recruiters will be responsible to add new jobs to the application.
- Recruiters can manage (delete) the list of job.
- Recruiters can check the list of the user who applied for their job.
- Recruiters can send the interview mail or contact the job seeker by phone number.

Job Seeker:

- Job Seekers can register to the application.
- Job Seekers then login to the application.
- Job Seekers can Edit/Update Profile.
- Job Seekers can apply to any job.
- Job Seekers can search job by as per their preferred Location.

Operating Environment:

Server side:

Processor: Intel® Xeon® processor 3500 series

HDD: Minimum 500GB Disk Space

RAM: Minimum 2GB

OS: Windows 8.1, Linux 6

RAM: Minimum 2GB

Client side:

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 1GB

OS: Windows 7 and above, Linux

Design and Implementation Constraints:

- The application will use Html, and CSS as main web technologies and Spring-MVC ,Spring-boot and Hibernate to manage the backend of application.
- HTTP protocols are used as communication protocols.
- Since E-Job Portal Management system is a web-based application, internet connection must be established.
- The E-Job Portal Management system will be used on PCs and will function via internet or intranet in any web browser.

3.Specific Requirement:

External Interface Requirements:

User Interfaces:

- All the users will see the same page when they enter in this website. This page asks the users a email and a password.
- After being authenticated by correct email and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system.
- The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.
- This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

Application Interfaces:

OS: Windows 7 and above, Linux

Web Browser:

The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfil the request fired by the user.

4.System Design:

Activity Diagram

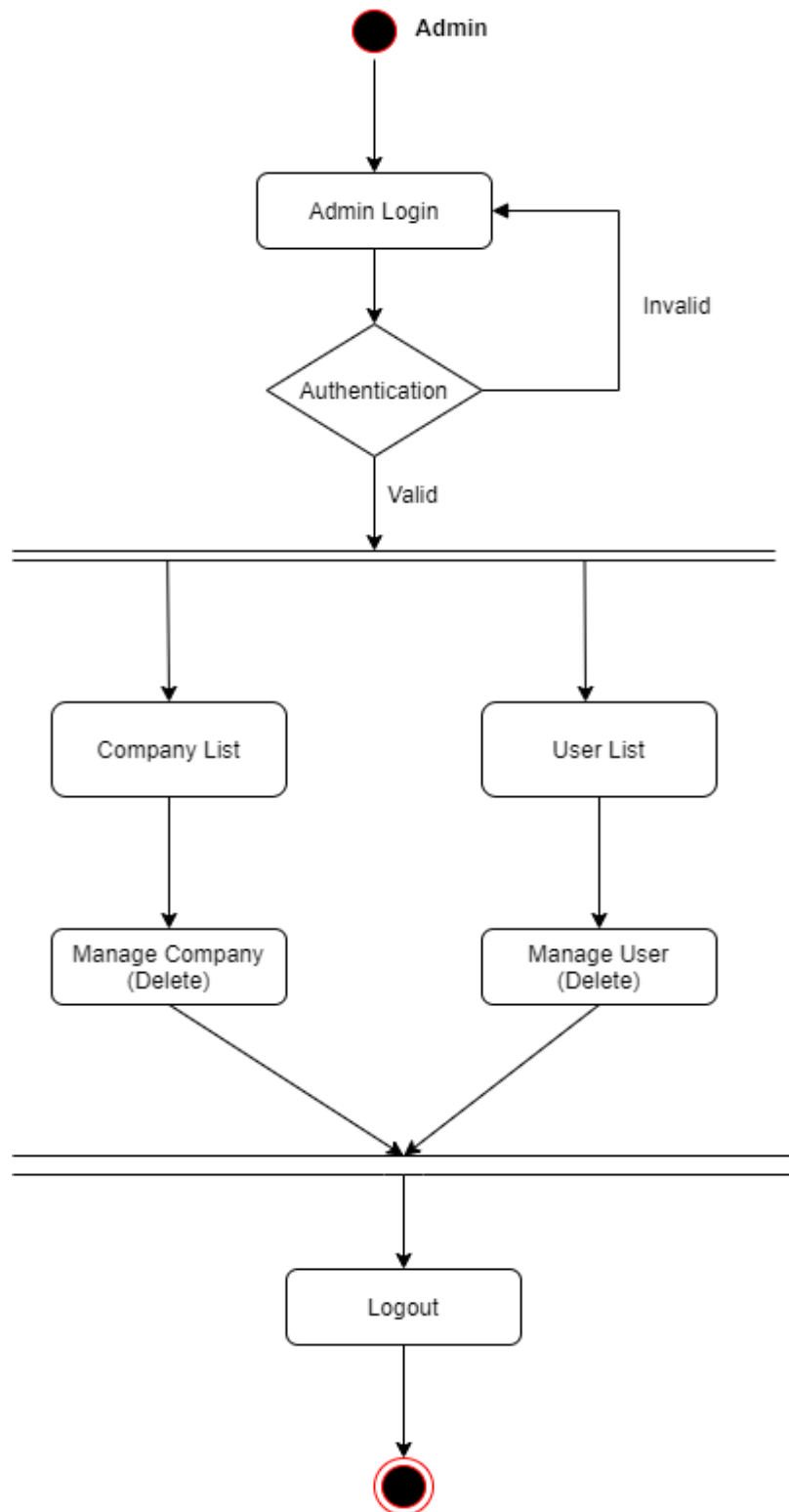
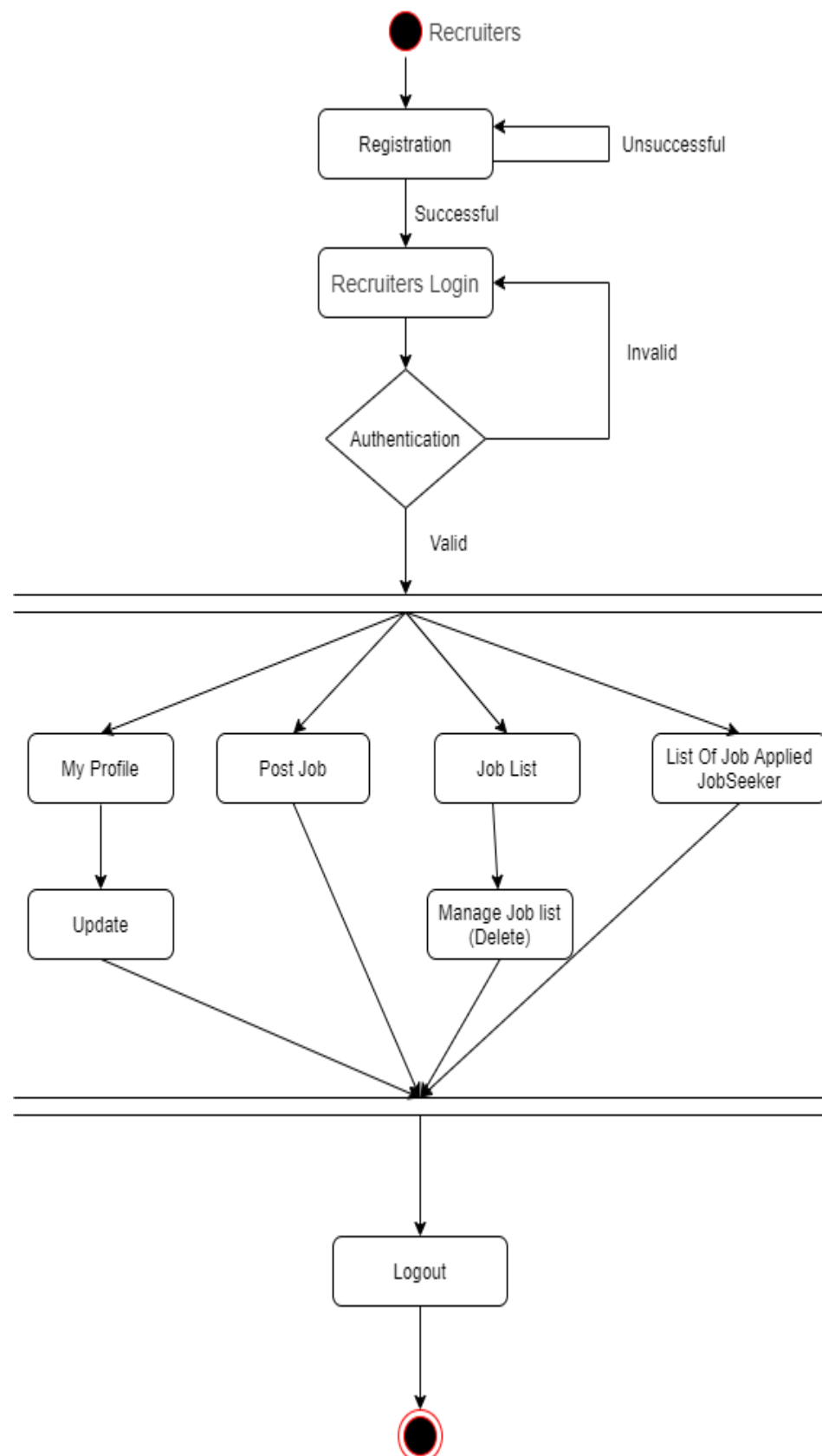
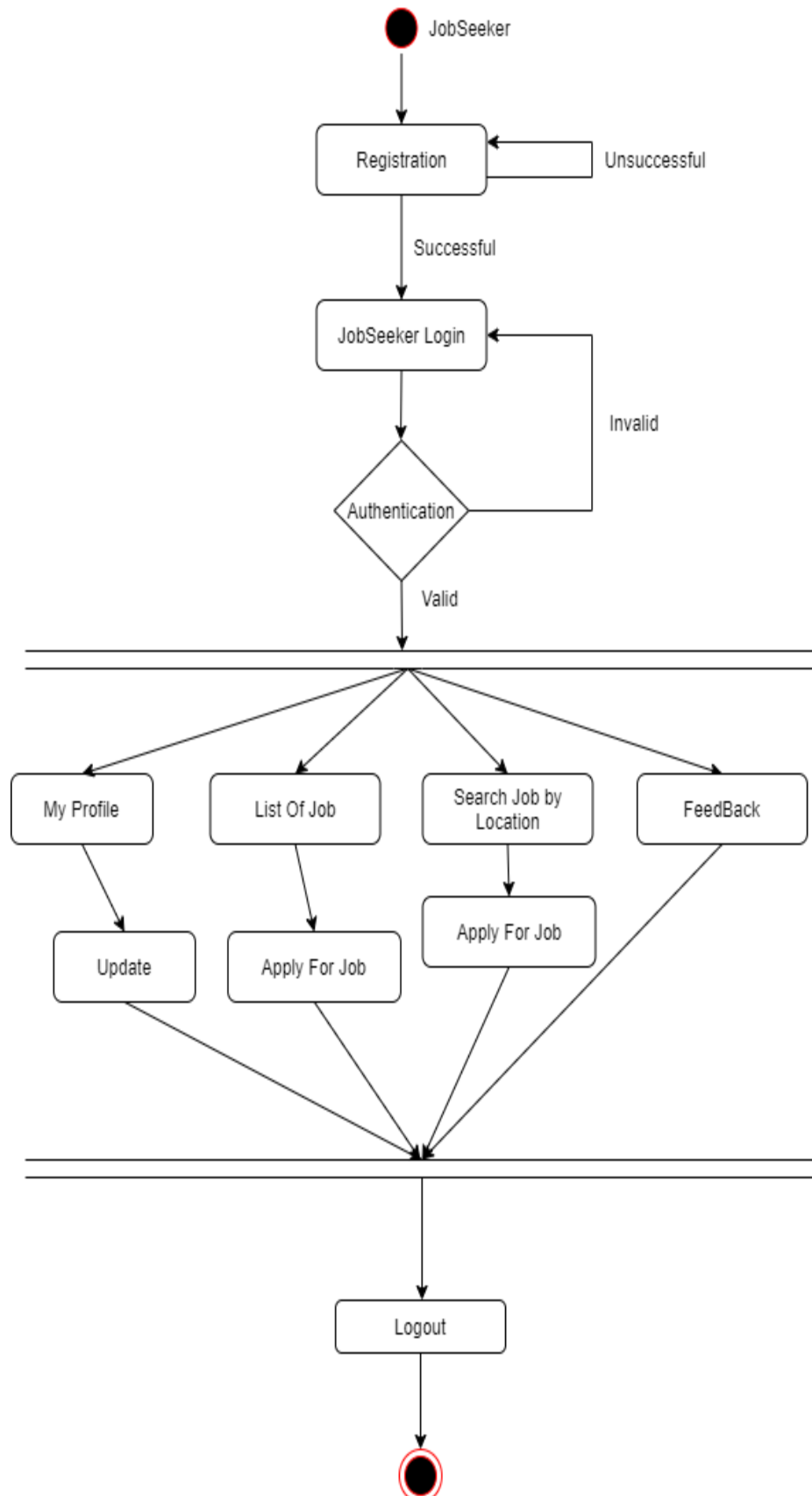
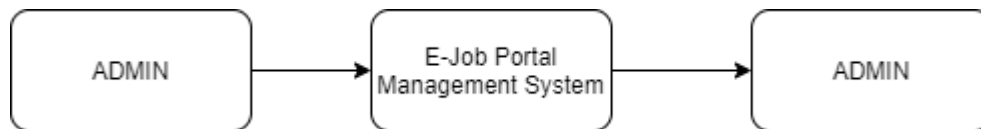
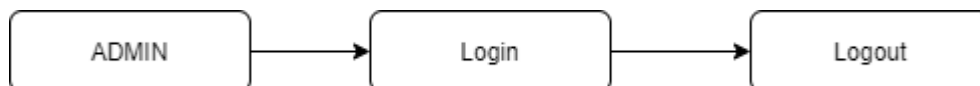
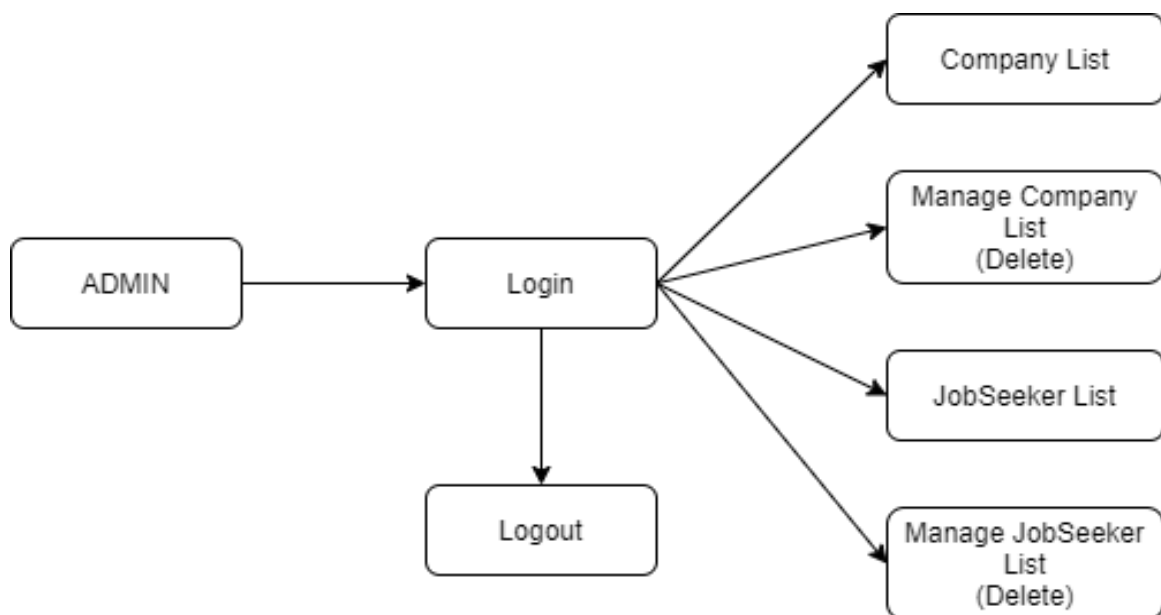
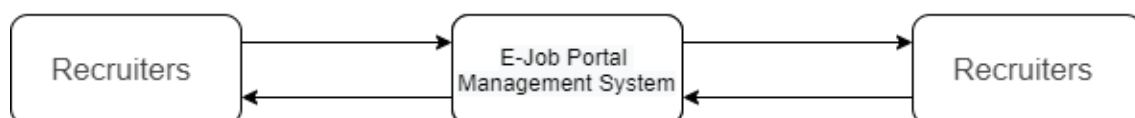


Figure 1: Admin Activity Diagram

**Figure 2: Recruiters Activity Diagram**

**Figure 3: Job Seeker Activity Diagram**

Data Flow Diagram**Figure 4: Level 0 Data Flow Diagram Admin****Figure 5: Level 1 Data Flow Diagram Admin****Figure 6: Level 2 Data Flow Diagram for Admin****Figure 7: Level 0 Data Flow Diagram for Recruiters**

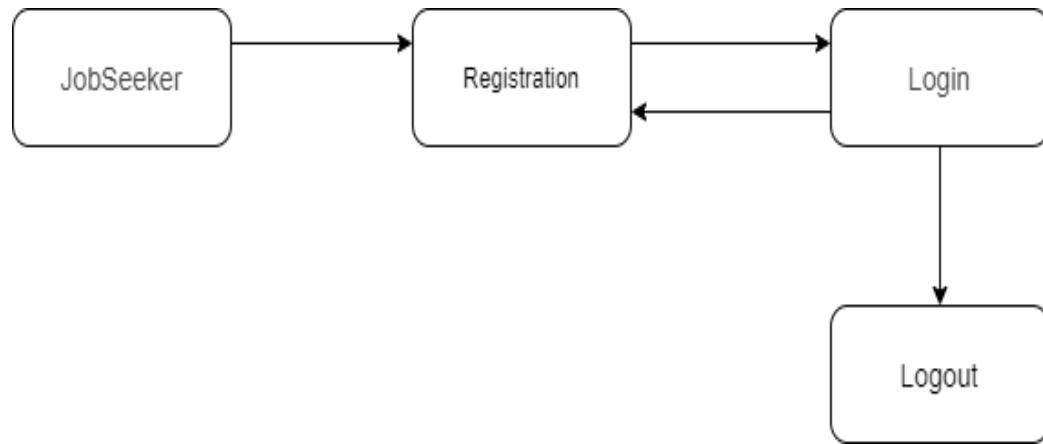


Figure 8: Level 1 Data Flow Diagram for Recruiters

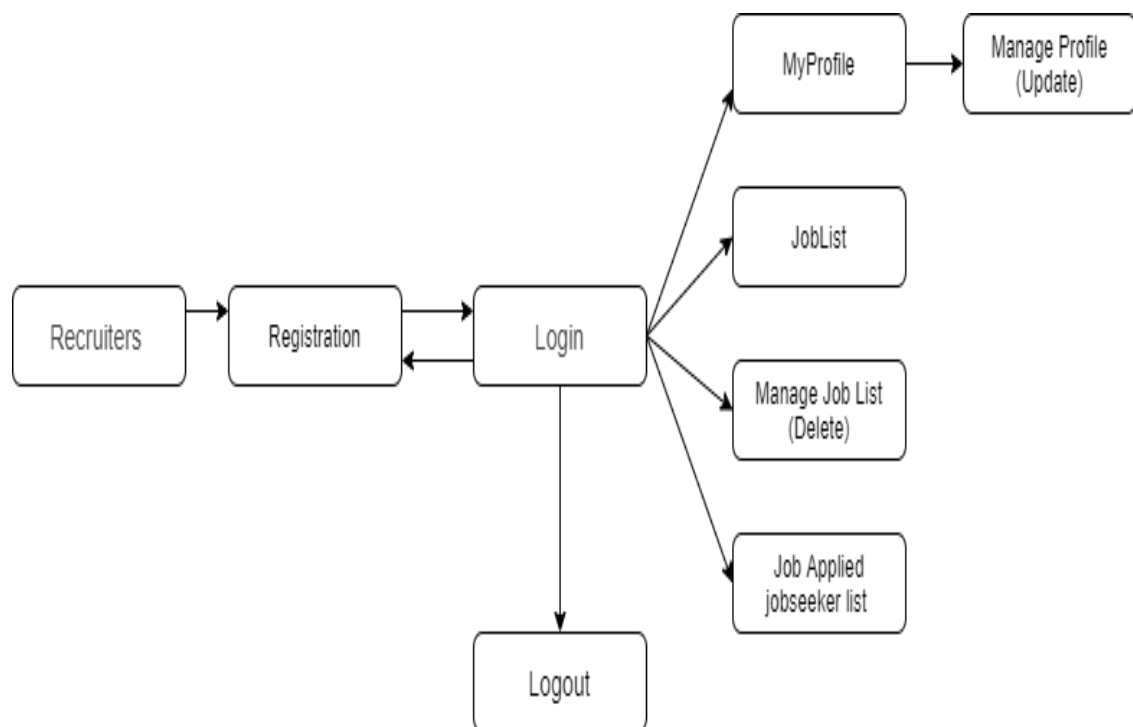


Figure 9: Level 2 Data Flow Diagram for Recruiters

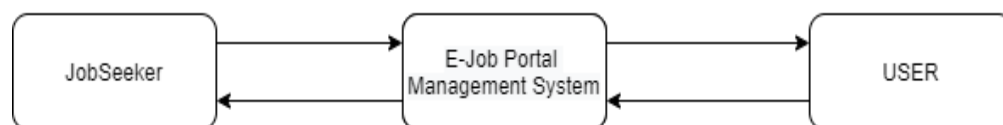


Figure 10: Level 0 Data Flow Diagram for Job Seeker.

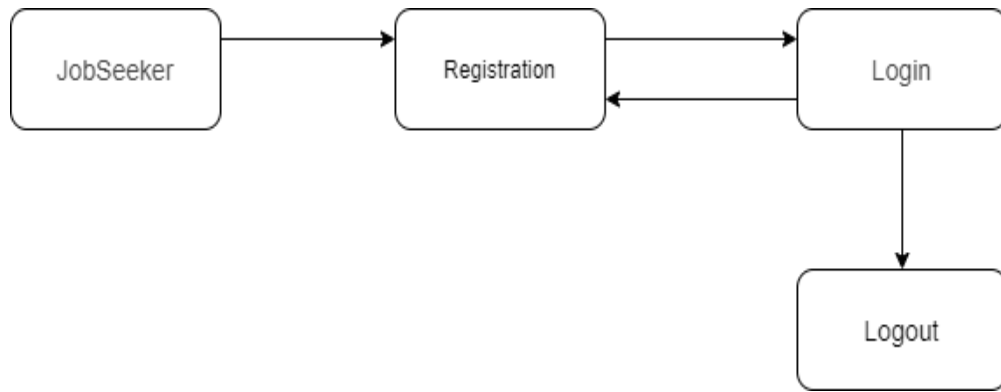


Figure 11: Level 1 Data Flow Diagram for Job Seeker.

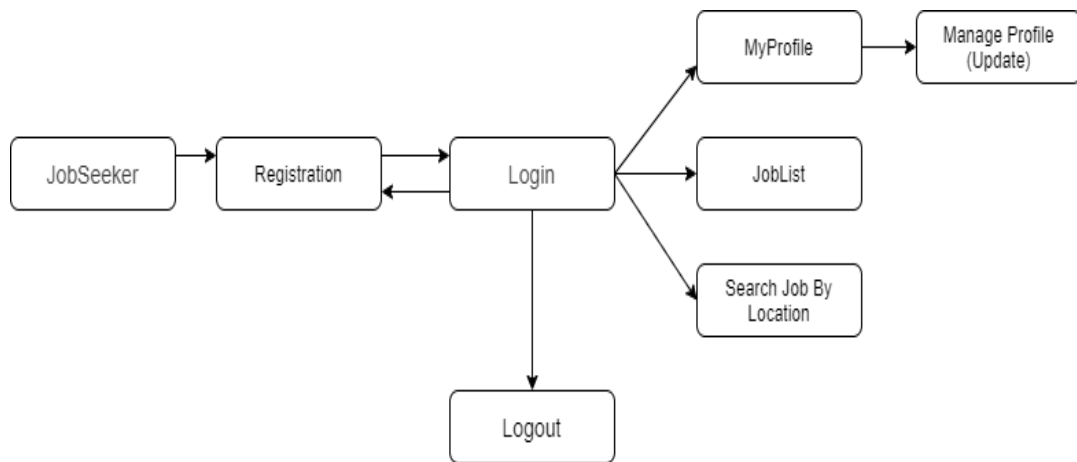


Figure 12: Level 2 Data Flow Diagram for Job Seeker.

Use Case Diagram

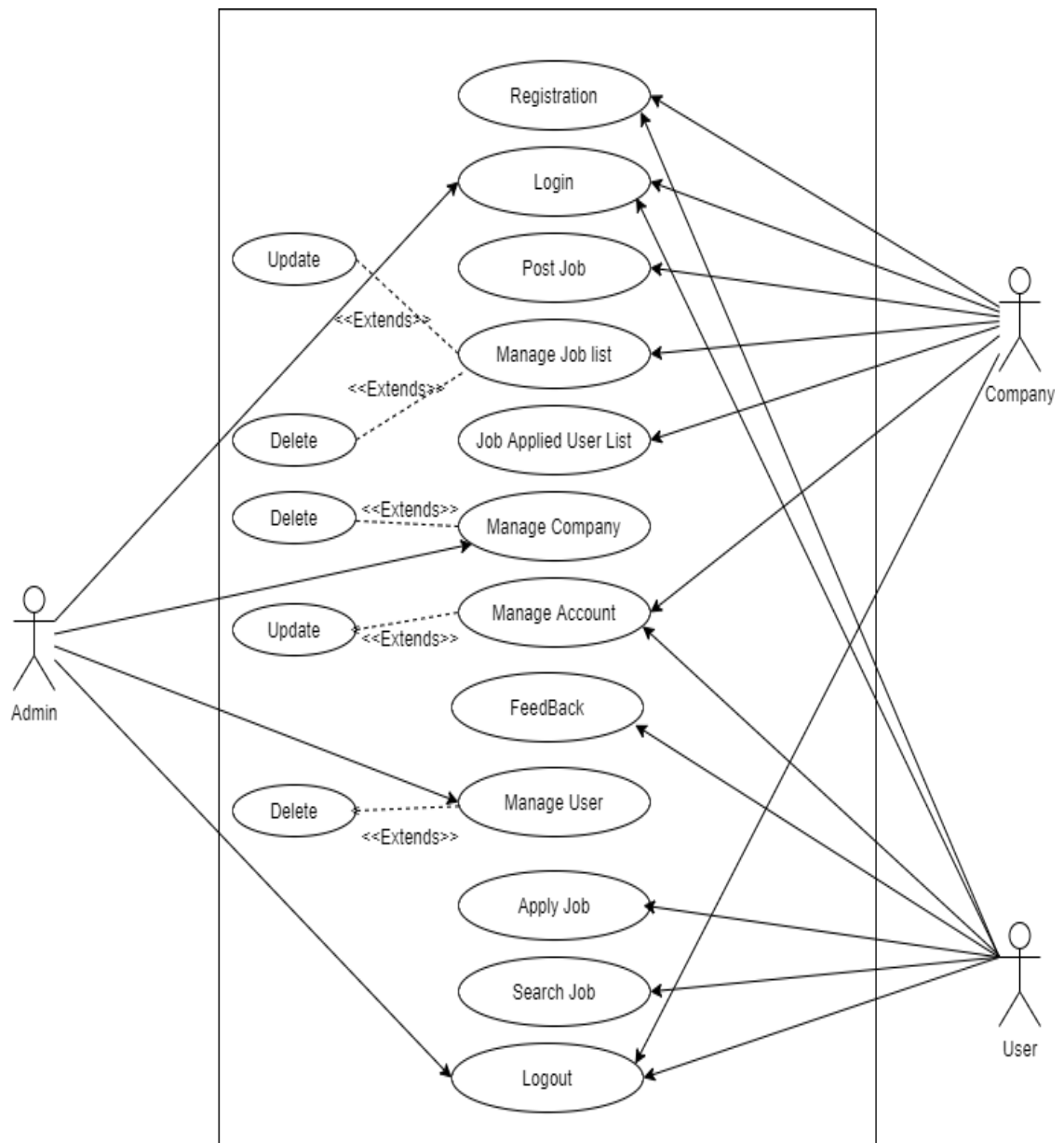
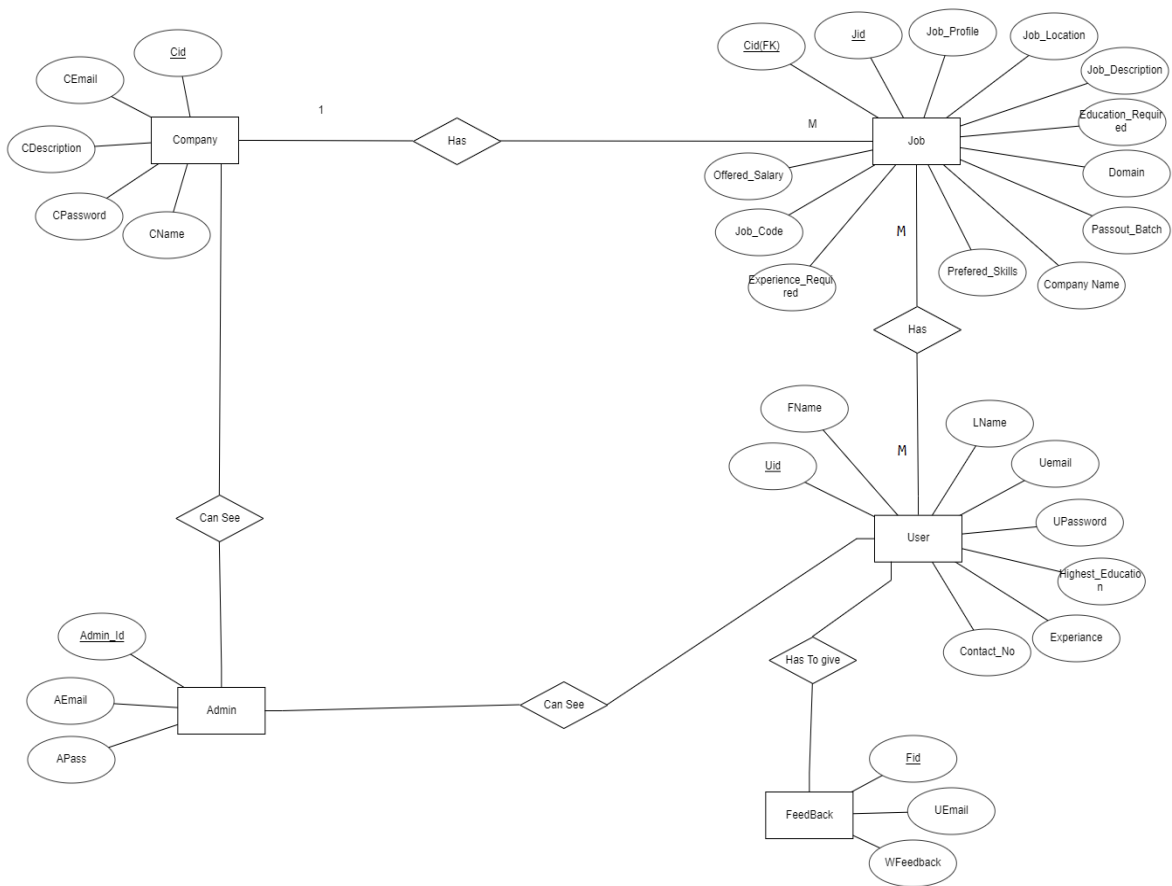


Figure 13: Use Case Diagram

ER-Diagram:**Figure 14: ER Diagram**

5.Table Structure**Admin:**

Field	Type	Null	Key	Default	Extra
a_id	int	No	PRI	NULL	auto_increment
admin_email	Varchar(255)	Yes		NULL	
admin_password	Vrarchar(255)	Yes		NULL	

Recruiters:

Field	Type	Null	Key	Default	Extra
c_id	int	NO	PRI	Null	auto_increment
company_description	Varchar(255)	Yes		Null	
c_email	Varchar(255)	Yes	UNI	Null	
company_name	Varchar(255)	Yes		Null	
company_password	Varchar(255)	Yes		Null	

Job Seeker:

Field	Type	Null	Key	Default	Extra
u_id	int	No	PRI	Null	auto_increment
contact_no	varchar(10)	Yes		Null	
experiance_in_year	int	Yes		Null	
first_name	varchar(255)	Yes		Null	
highest_education	varchar(255)	Yes		Null	
last_name	varchar(255)				
skills	varchar(255)	Yes		Null	
user_email	varchar(255)	Yes		Null	
user_password	varchar(255)	Yes		Null	

Job:

Field	Type	Null	Key	Default	Extra
j_id	int	NO	PRI	Null	Auto_increment
batch	int	YES		Null	
company_name	varchar(255)	YES		Null	
domain	varchar(255)	YES		Null	
education_required	varchar(255)	YES		Null	
experiance_required	int	YES		Null	
job_code	int	YES		Null	
job_description	varchar(255)	YES		Null	
job_location	varchar(255)	YES		Null	
job_profile	varchar(255)	YES		Null	
offered_salary	double	YES		Null	
preffered_skills	varchar(255)	YES		Null	
company_id	int	YES	MUL	Null	

FeedBack:

Field	Type	Null	Key	Default	Extra
f_id	int	NO	PRI	NULL	auto_increment
user_email	varchar(255)	YES		NULL	
user_feedback	varchar(255)	YES		NULL	

Jobs_Application:

Field	Type	Null	Key	Default	Extra
job_id	int	No	PRI	Null	
user_id	int	NO	PRI	Null	

6.Results:

Home Page:



Admin Login:

Home

Login Form

Email

Password

After Admin Login:

ListOfCompany SignOut ListOfUsers

Welcomeadmin login successful!

[Home](#)

Company List

Name	Email	Password	Description	Delete
infosis	info@gmail	123	it is a goocompany	Delete
atos	atos@gmail.com	123	it is a goocompany	Delete

[Home](#)

User List

First Name	Last Name	Email	Password	Education	Experience	ContactNO	Skills	Delete
amit	saa	b@gmail	123	BSC	4	0987676543	java,c	Delete
ashwini	sasve	ash@gmail	ash	BSC	0	8668687499	Java	Delete

Company –

[Home](#)

Company Registration Form

Company Name	<input type="text"/>
Email	<input type="text"/>
Password	<input type="text"/>
Description	<input type="text"/>
<input type="button" value="Registration"/>	

[Home](#) [Company Registration](#)

Login Form

Email	<input type="text"/>
Password	<input type="text"/>
<input type="button" value="CompanyLogin"/>	

Welcome infosis login successful!

Job posted by company successful 4

Company posted job

Job List

Company	Profile	Location	Description	Education	Domain	PrefferedSkills	Batch	Experience	JobCode	OfferedSalary	Delete
infosis	Testing	pune	Need Testing Skills	BE	Banking	java	2020	1	1	200000.0	Delete
infosis	Developer	Mumbai	Need Web based Knowledge	BE	Banking	Html,Java	2020	1	2	30000.0	Delete
infosis	Testing	pune	good tester	BE	Banking	java	1	1	1	200000.0	Delete

User List

JobProfile	FirstName	LastName	Email	Education	Experience	ContactNo	Skills
Testing	amit	saa	b@gmail	BSC	4	0987676543	java,c
Developer	amit	saa	b@gmail	BSC	4	0987676543	java,c

Job Seeker –

[Home](#) [Login](#)

Registration Form

First Name	<input type="text"/>
Last Name	<input type="text"/>
Email	<input type="text"/>
Password	<input type="text"/>
Highest Education	<input type="text"/>
Experience	<input type="text" value="0"/>
Contact No	<input type="text"/>
Skills	<input type="text"/>
<input type="button" value="Register"/>	

[Home](#) [User Registration](#)

Login Form

Email	<input type="text"/>
Password	<input type="text"/>
<input type="button" value="Login"/>	

[Home](#) [SignOut](#)

Your Relevant Job List as below

Company	Profile	Location	Description	Education	Domain	PrefferedSkills	Batch	Experience	JobCode	OfferedSalary	Apply
infosis	Testing	pune	Need Testing Skills	BE	Banking	java	2020	1	1	200000.0	Apply
infosis	Testing	pune	good tester	BE	Banking	java	1	1	1	200000.0	Apply

searchByLoaction

Location

My profile

User ID

First Name

Last Name

Email

Password

Highest Education

Experience

Contact No

Skills

Feedback Form

Email

Feedback

7.Conclusion:

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 J2EE and HTML ,CSS web based application and no some extent Windows Application and SQL Server, but also about all handling procedure related with “**E-Job Portal Management System**”. This will provide better opportunities and guidance in future in developing projects independently.

Limitations:

1. The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.
2. Training for simple computer operations is necessary for the users working on the system.

Future Scope:

This System being web-based and an undertaking of Cyber Security Division, needs to be thoroughly tested to find out any security gaps.

Moreover, it is just a beginning; further the system may be utilized in various other types of auditing operation viz. Network auditing or similar process/workflow based applications.

8. References:

Books:

1. Conallen, J. (2003). Building Web Applications with UML. Pearson Education, Inc.
2. Firth, R. (2005). High Powered CVs. How to Books Publishing.
3. Maier, M. & Rechtin, E. (2000). The Art of Systems Architecting 2nd Edition. CRC Press.
4. Schumler, J. (2004). Sams Teach Yourself UML in 24 Hours, Third Edition. Sams Publishing.

Web Sites

- <http://www.bestjobs.ph>
- <http://www.gopinoy.com>
- <http://www.jobsdb.com.ph>
- <http://www.jobsonline.com.ph>
- <http://www.jobstreet.com.ph>
- <http://www.phil-job.net>