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# **Software Requirements Specification**

**for**

## **Job Portal**

### **Version 1.0 approved**

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## Revision History

Name	Date	Reason For Changes	Version
Manasa B	09.01.18	Initial Draft	v1.0

# **1. Introduction**

## **1.1 Purpose**

*The purpose of this document is to specify detailed requirements for “Job Portal”. This is the first version of this SRS i.e. v1.0 and has not been revised yet. This document gives an overall description of the Job Portal and also describes its functionalities, constraints, assumptions that are necessary for the Job Portal to have. This document could be used as cross reference to verify the end product.*

## **1.2 Document Conventions**

*The heading of the documents are in Times new roman and the contents are in Arial the page numbers are numbered as 1,2,3,...etc*

*Main headings are in Times new roman :font size 18*

*Sub headings are in Times new roman :font size 14*

*Contents are in Arial:font size 11*

## **1.3 Intended Audience and Reading Suggestions**

*The intended readers of this document are the system analyst & designer, project developer, project panel, system owners. The system analyst & designer can use this document for his cross reference to verify his future work. Project developer can use this document for traceability of the functions implemented.*

*Project panel can use this document to verify the quantity and quality of the end product, finally this document can help bridge-up the gaps between the project stakeholders i.e. analysts, designers, developers, system users and the system owners to help them understand what functionalities this Job Portal will have and what not.*

## 1.4 Product Scope

*The aim of this project is to design and develop a Job portal, on which End users can search jobs & apply online for a specific job. Companies can also post their jobs to find employees for their company. This portal will benefit companies and job seekers. This portal will be specified only for jobs. Online business on this portal is beyond the scope of this project. Job seekers can search and apply online for jobs related to their fields within specific area and salary. Similarly, companies can post their jobs on this portal with specific information for applicant. This portal will maintain the database of jobs (posted by companies) as well as jobs applications (posted by job seekers).*

## 1.5 References

*This document builds on the following references:*

*Wikipedia website URL: <http://en.wikipedia.org> [1].*

*Oracle for java URL: <https://www.oracle.com/in/index.html> [2]*

*For more knowledge about Java :java tutorial point URL: <https://www.tutorialspoint.com/java/> [3].*

*Java The Complete Reference by Herbert Schildt [4].*

*Thinking in Java by Bruce Eckel [5].*

## 2. Overall Description

### 2.1 Product Perspective

*The software which is to be developed will work independently and is not to be integrated into any other larger system/software.*

### 2.2 Product Functions

*The main functions of a product are listed below:*

- 1. Job with details could be stored.*
- 2. C.V of job seekers could be stored.*
- 3. Job search could be performed by job seekers.*
- 4. Employee search could be performed by job providers.*
- 5. Cover letter could be provided to job seekers for applying job.*
- 6. Job applicant could have a profile*

### 2.3 User Classes and Characteristics

*There are two categories of users accessing this system. We will differentiate these users on the basis of their roles and access rights.*

*Employee: Employee means job seeker who is interested to have a job. They must have their login account on this portal.*

*Employer: Employer means job provider who is interested to find employees. They also must have their login account on this portal .*

## **2.4 Operating Environment**

*The environment in which the software will be operating is Net Beans, the hardware platform used is Lenovo idea pad 500 with RAM of 8Gb and ROM of 1Tb, operating system used is windows 10, and other software components or applications with which it must peacefully coexist are mysql etc*

## **2.5 Design and Implementation Constraints**

*The followings constraints are present in this System:*

- 1. Any person is allowed to create his/her login account and register himself/herself on this portal.*
- 2. Only registered persons can apply for jobs. The persons who don't have any account on this portal can only see the posted jobs.*
- 3. Any company can't post their job on this portal that is not registered to this portal.*
- 4.No one have rights to change the information of someone else account on this portal.*
- 5. Once an employee apply for a job. He can't apply again for this job. (Because he has already applied for this job)*
- 6. No one can maintain and manage this portal except the administrator of this portal.*
- 7. Any user who likes to register him/her on this portal must have an email address, phone number and a qualification .*

## **2.6 User Documentation**

*Along with the software product, a user manual would be written to help people understand the working methodology and usage of the developed portal system. It would be written for nontechnical individuals and the level of content or terminology would differ considerably from, for example, a System Administration Guide, which is more detailed and complex. The user manual would follow common user documentation styles capturing purpose and scope of the product along with key system features and operations; step-by-step instructions for using the system including conventions, messaging structures, quick references, tips for errors and malfunctions; pointers to reference documents; and glossary of terms.*

## **2.7 Assumptions and Dependencies**

*The assumptions and dependencies for this system are:*

*Administrator: There should be at least one website administrator who can manage and maintain this website.*

*Once the program is closed the whole portal will be closed and there won't be any data stored about the job seeker or about the company .*

### 3. External Interface Requirements

*The major services and functional requirements for the product can be illustrated by system features. This section is organized by use cases for major system features. In the following, necessary description.*

#### 3.1 User Interfaces

*Main portal GUI have details for logging in and registering for the portal which has following buttons:*

*Register button: used by both jobseeker and employer to join the portal .*

*Login button :used to logging to the portal.*

*Close :for closing the main GUI.*

*The portal logo will be displayed in the front of the main GUI with the heading written on the top. If there is any kind of error the system error of the Net beans will be invoked and the error message is displayed .*

*The other GUI are :*

*Jobseeker registering GUI.*

*Jobseeker working space GUI.*

*Jobseeker logging GUI.*

*Employer registering GUI.*

*Employer working space GUI.*

*Employer logging GUI.*

#### 3.2 Hardware Interfaces

*The minimum proposed RAM for running the product is 128MB and recommended is 256MB but if there is a higher load of users accessing the software it should be more than 512MB. The minimum proposed RAM for the DBMS is 64MB and recommended is 128MB .*

#### 3.3 Software Interfaces

- *Operating System- Windows 10*
- *Language- Java*
- *Database- MySql*
- *Network- LAN*
- *Platform-Net Beans*

#### 3.4 Communications Interfaces

*Windows forms*

## 4. System Features

*The major services and functional requirements for the product can be illustrated by system features. This section is organized by use cases for major system features. In the following, necessary description is provided for each use cases in the system. Each use case description provides information of the associated actors, triggering condition, preconditions, postconditions, response sequences, exceptions and functional requirements (assumptions). Being a major important section of the SRS, this section is expected to go through iterative improvement to make the most logical sense for the intended product.*

### 4.1 System Feature 1

#### 4.1.1 Job Seeker Description and Priority

##### 4.1.1.1 New Job Seeker Registration

*Any job seeker is allowed to create his/her account on this portal if constraints are met.*

*The job seeker will open this portal and click on signup to create his/her account. He/She will add the following information for the registration.*

- *His/Her Full name.*
- *His/Her qualification.*
- *His/Her Phone no. if any.*
- *His/Her E-mail address (because whenever a new job is posted he/she will get an email.).*
- *His/Her username.*

*After filling in the required information the login account of employee will be created.*

##### 4.1.1.2 Job Searching By Job Seeker

*The information needed to search a job is as follows.*

- *Search job by title (keywords).*
- *Search by selecting occupation (a dropdown list will be provided to select occupation).*
- *Search by company name.*
- *Search by qualification.*

##### 4.1.1.3 Functional Requirements

*REQ-1: Interaction between the job seeker and the portal is identified.*

*REQ-2: Malicious requests are identified and acted upon.*

*REQ-3: There are existing policies for long-term peering arrangement.*

*REQ-4: There is procedure to perform short-term negotiation.*

## 4.2 System Feature 2

### 4.2.1 Job provider Description and Priority

#### 4.2.1.1 New Job provider Registration

*Any job provider is allowed to create his/her account on this portal if constraints are met.*

*The job provider will open this portal and click on signup to create his/her company account. He/She will add the following information for the registration.*

- *Employer name.*
- *Company name*
- *Company full address including location.*
- *Working/Aim of company.*
- *Company contact information (Like phone No., e-mail address, web page and etc.).*

#### 4.2.1.2 New Job posted by job provider (company)

*Following information are needed to post a job on the portal.*

- *Provide job category.*
- *Provide job title.*
- *Provide the experience of applicant.*
- *Provide description about job.*

#### 4.2.1.3 Searching employee by job provider (company)

*Job provider can also search employees for his/her company. Following information is needed to search an employee.*

- *Search by qualification.*
- *Search by experience.*

#### 4.2.1.4 Functional Requirements

*REQ-1: Interaction between the employer and the portal is identified.*

*REQ-2: Malicious requests are identified and acted upon.*

*REQ-3: There are existing policies for long-term peering arrangement.*

*REQ-4: There is procedure to perform short-term negotiation.*

## 4.3 Stimulus/Response Sequences

*The sequences of user actions and system responses that stimulate the behavior defined for this feature are:*

- *The both users first have to enter the portal.*
- *Both have to register.*
- *The companies can put their name and qualification for the job.*
- *Then employee must apply to available companies.*
- *If the employee is selected he or she is informed.*
- *The name of the employee is saved.*



## **5. Other Nonfunctional Requirements**

*The nonfunctional attributes of the system are described below:*

### **5.1 Reliability**

*The system should be reliable. This software should not crash frequently.*

### **5.2 Availability**

*The system shall be available to all users 24/7.*

### **5.3 Security**

*The Security is major issue; the application software should be secure. Security is important because the application software is web based. Security will be provided through Access Control Mechanism. The application software will have secure password authentication and will prevent illegal access to Members accounts.*

### **5.4 Maintainability**

*The Job Portal will be designed in such a way that it can be maintained in future.*

### **5.5 Usability**

*User interface is much of concern because only the basic information is required to use this portal. E-mail Alerts will be sent to users who will subscribe to it so that they can remain up to date with the system.*

### **5.6 Scalability**

*The system scope is limited only for jobs so scalability in software scope is not a big issue.*

## **5.7 Cost Effective**

*System will be client independent so there is no need to install this system at each client machine rather this system will be installed at server and every user will be able to access it, but there may be some expenditure on company advertisement on this portal.*

## **6. Other Requirements**

*This include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on.*

## **Appendix A: Glossary**

RAM-Random Access Memory.

ROM-Read Only Memory.

LAN-local area network.

GUI-Graphical User Interface.

REQ-Requirements.

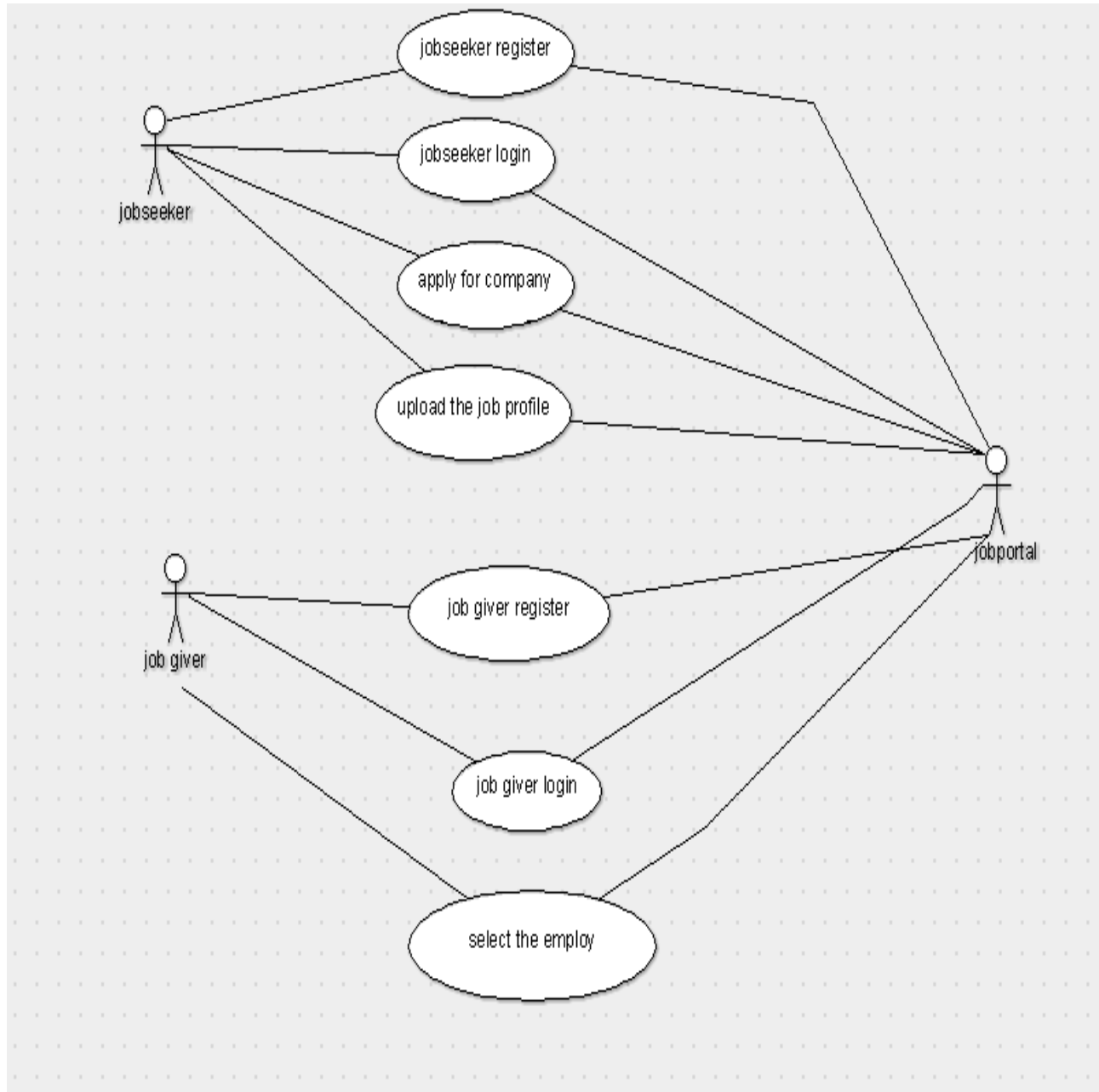
Employer/company-people who offer the job.

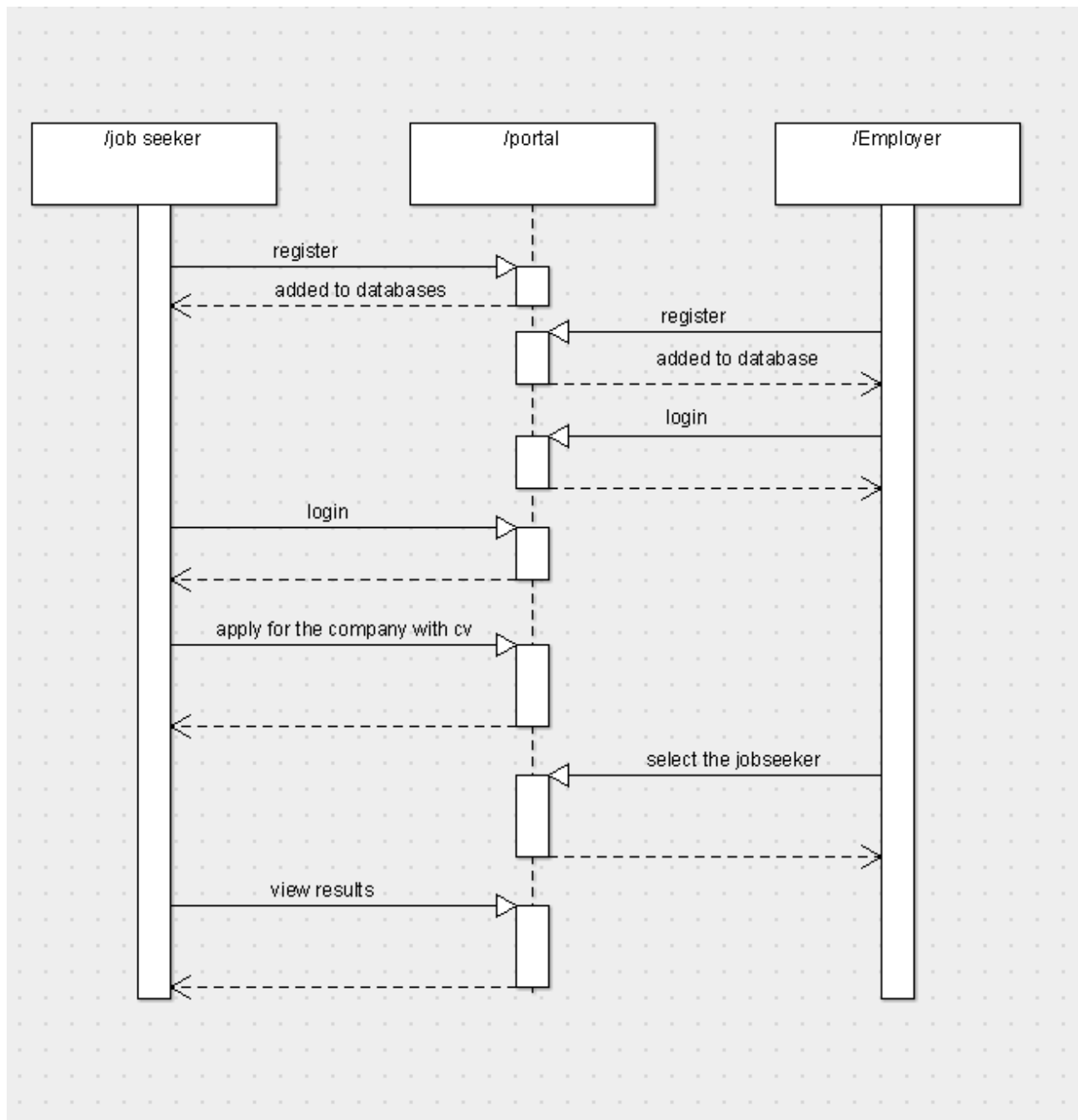
Employee /job seeker-people who are in search for the job.

Administrator-one who controls the portal.

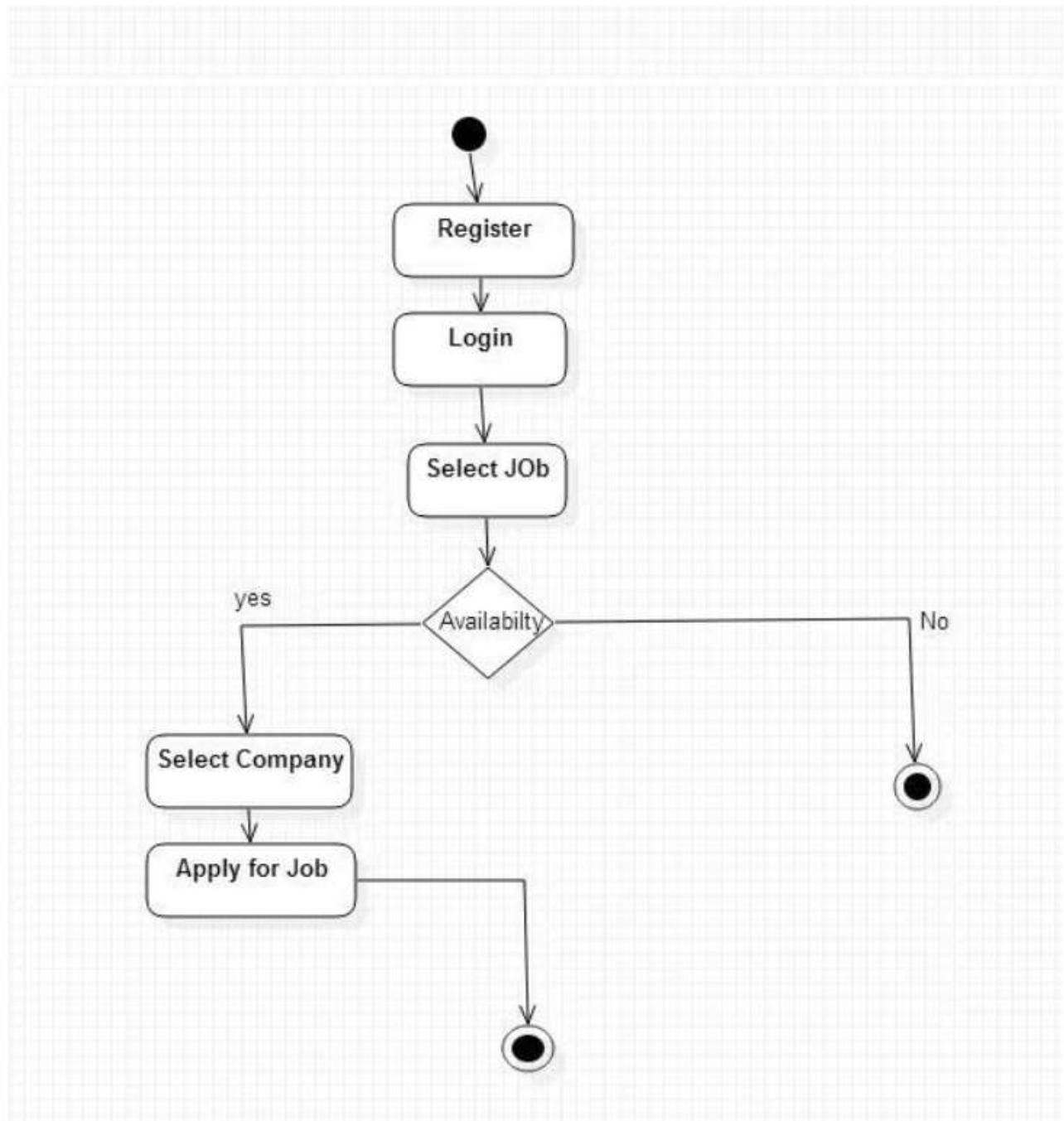
## Appendix B: Analysis Models

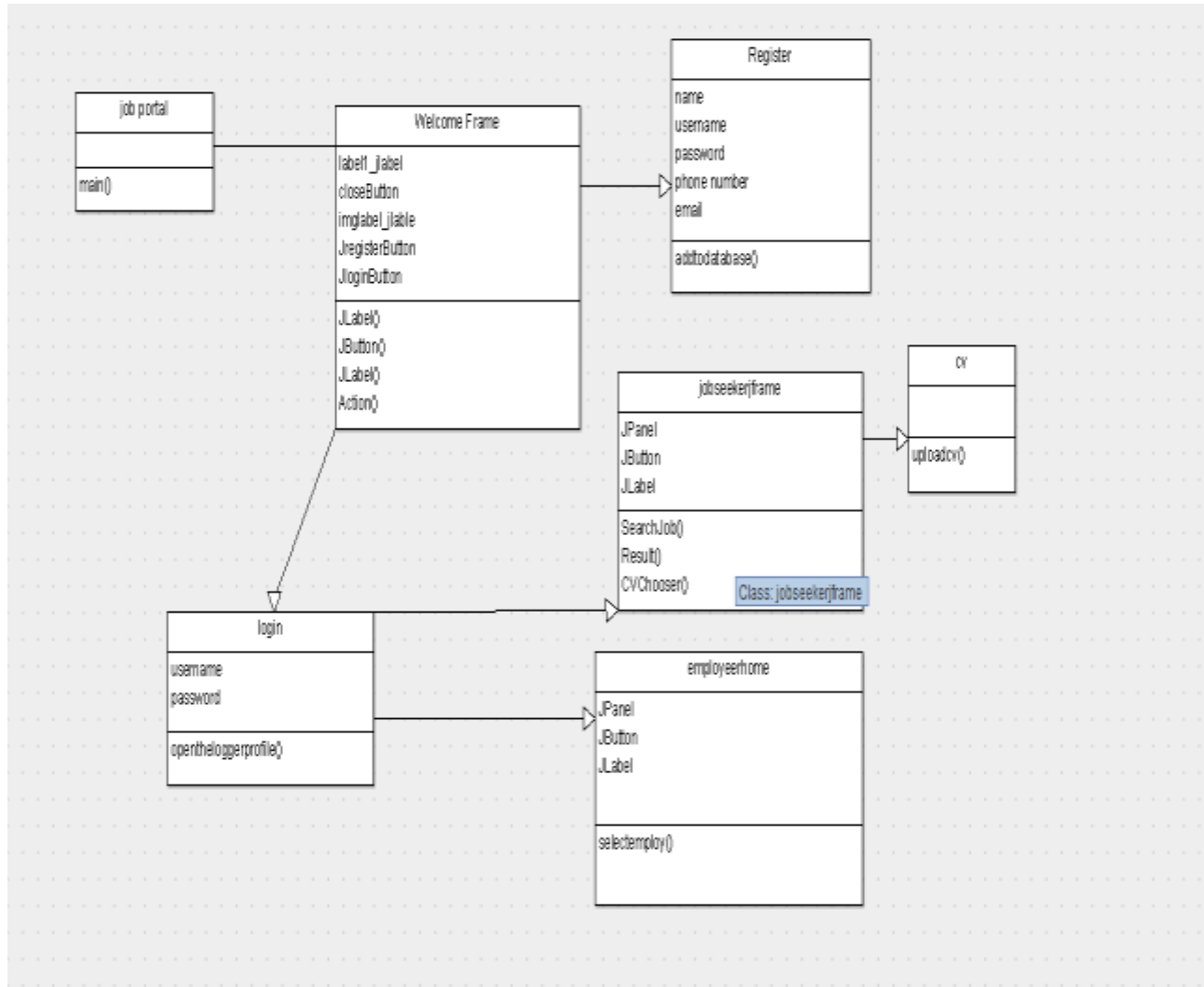
Use case diagram:



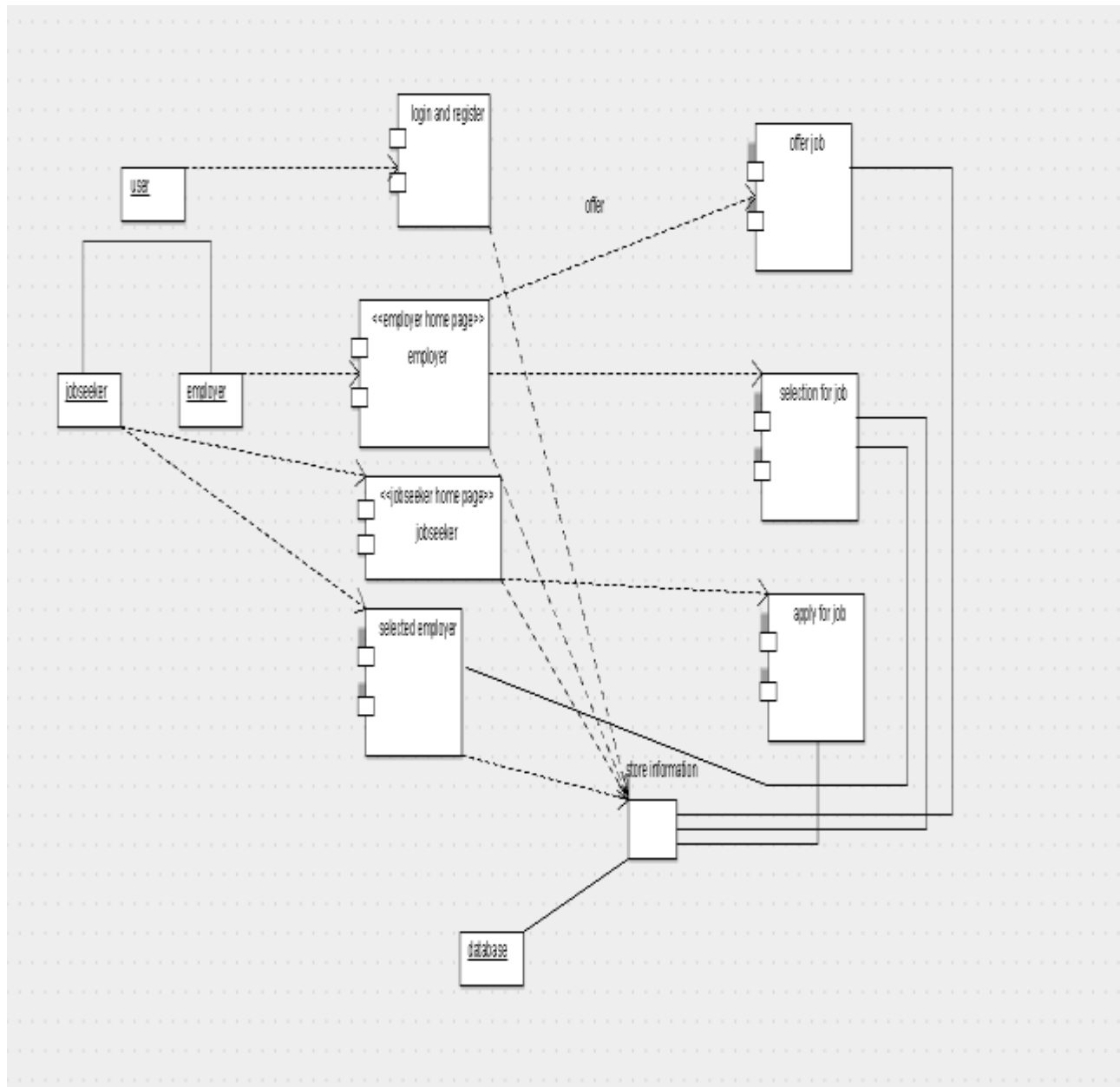
**Sequential diagram:**

## Activity diagram:



**Class diagram:**

## Component diagram:



## Appendix C: To Be Determined List

<Collect a numbered list of the TBD (to be determined) references that remain in the SRS so they can be tracked to closure.>

