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**Software Requirements Specification**

**Documentation**

**JOBIFY**

Prepared by Group 2

**FPT University, 01/11/2021**

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# **1. Introduction**

## **1.1 Purpose**

This project is aimed at developing a web site for Online Job Portal. It is of great importance to the unemployed people. This site allocates the right job information for suitable persons. All the jobseekers as well as job providers’ information are stored in the database.

## **1.2 Technology and Environment**

* Language: Java
* IDE: Netbeans 8.2
* Glassfish 4.0
* Microsoft SQL Server 2019
* Gitlab

## **1.3 Definitions, Acronyms, and Abbreviations.**

| ID | Acronyms | Definition |
| --- | --- | --- |
| 1 | SRS | Software Requirement Specification |
| 2 | DB | Database |
| 3 | GUI | Graphic User Interface |
| 4 | OS | Operating system |
| 5 | N/A | Not available |

## 1.4 Document conventions

* Font size: 12
* Font: Calibri
* Header font-size: 13
* Header font-weight: bold

## **1.**5 **Intended Audience and Reading Suggestions**

* The intended audiences for this document are:

1. The team members of the Jobify project.
2. The administrative staff of the company who is the client.
3. The project supervisor: Lecturer Tran Binh Duong.

* This document will be reviewed frequently by the above audiences to check if the different phases of the project are being completed by meeting the given requirements.
* If there are any changes in the requirements in the course of the project they must be included in this document by making the necessary changes.

## **1.**6 **Project scope**

* Contact an extensive collection of job vacancies through job search engines.
* Allow employees to create their own CVs and edit their CVs.
* Help employees submit their CVs to employers to apply for a job.
* Help employers post their job to find appropriate employees for a position.
* Allow employers to see a list of CVs applying for their job and they can accept or decline CVs.

| **Project Justification:**  This project is basically a portal connecting the employees who seek for their job and the employers who find appropriate candidates for a position. |
| --- |
| **Product Characteristics and Requirements :**   1. Job search feature 2. CV management: create, edit, view 3. Job management: create, edit, view, CV accept or decline 4. User management for admin: view profile, delete user |
| **Project Success Criteria:** Our main goal is to complete this project within the allotted deadline. It is necessary to develop a method for capturing the benefits while the Online Job Portal is being developed, tested, and after it is rolled out. If the project takes a little longer to complete than planned, the team will still view it as a success if it has good reviews and helps promote the team's coding and teamwork abilities. |

## **1.**7 **References**

* Based on an existed web application topcv.vn
* Design template on moqups.com
* Bootstrap Tutorials on getbootstrap.com

# **2. The Overall Description**

## **2.1 Product Perspective**

The proposed Online Job Portal will take care of the current job detail at any point of time. The system will show the job based on the user needs by filters, the employees can view the job details and decide whether they apply for this job now or add it to their wishlist for future. Once they submit their CVs, employers who post this job will see their CVs and decide whether they are appropriate for this job or not.

## **2.**2User requirements

System users are members who act as administrators to maintain the system. Members are said to have a basic knowledge of computers and internet browsing. System administrators should have more knowledge of the system's internals and be able to fix minor problems that may arise due to disk failure, power failure and other problems to maintain the system. , proper user interface

## **2.**3User Classes and Characteristics

We have 3 user classes:

1. Users need to find a job: In the user module, the user checks the availability of a job.

* Search for jobs by industry, company...
* Create CV
* View job details and send CV

1. Company wants to find employees to apply for:

* Job search
* Post jobs
* Manage posted jobs (update, delete);

1. Admin:

* Manage user accounts (view user information, delete user accounts)
* View transaction history
* Manage banner

## **2.**4Operating Environment

The product will be operating in a windows environment. The Job Management System is a website and shall operate in all famous browsers, for a model we are taking Microsoft Internet Explorer,Google Chrome,and Mozilla Firefox.Also it will be compatible with IE 6.0. Most of the features will be compatible with the Mozilla Firefox & Opera 7.0 or higher version. The only requirement to use this online product would be the internet connection. The hardware configuration includes Hard Disk: 40 GB, Monitor: 15” Color monitor, Keyboard: 122 keys. The basic input devices required are keyboard, mouse and output devices are monitor, printer etc.

## **2.**5Design and Implementation Constraints

* Coding used Model-View-Controller architectural model.
* Variables used camel case (words are joined without spaces and are lowercase with first letter)
* Methods, functions must be commented on to support maintenance programmers (comment before functions, before the loop, before long code) to understand code easily.
* Code must be coded by the Java code convention of Oracle.
* Html, CSS must be coded by convention
* Designing with Web Standards.

## 

## 2.6 Assumptions and Dependencies

* It is assumed that Jobify data will be made available for the project in some phase of its completion.
* It is assumed that the user is familiar with an internet browser and also familiar with handling the keyboard and mouse.
* Since the application is a web based application there is a need for the internet browser. It will be assumed that the users will possess decent internet connectivity.

# **3. Specific Requirements**

## 3.1 Functional Requirements Specification

### 3.1.1 Employers

#### Post job

| Use Case ID: | FR01 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Post job | | |
| **Created By:** | Trung Nghĩa | **Updated By:** | Trung Nghĩa |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employer | | |
| **Triggers** | Employer click “post job” link on the nav bar | | |
| **Description:** | Employers can post new jobs to the system. | | |
| **Pre-conditions:** | **PRE\_1. Employers account must be logged in** | | |
| **Post-conditions:** | The job is successfully added, and its data now exits in the system | | |
| **Normal Flow:** | **1.** Employer log in with an employer account  **2.** Click on the “post job” link on the nav bar.  **3.** Input required information for the job.  **4.** Click on the “Post job” button to finish. | | |
| **Priority:** | High | | |
| **Frequency of Use:** | Usually | | |

#### 

#### Delete job

| Use Case ID: | FR02 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Delete job | | |
| **Created By:** | Trung Nghĩa | **Updated By:** | Trung Nghĩa |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employer | | |
| **Triggers** | Employer click “delete” button when in “job posted” page | | |
| **Description:** | Employers can post new jobs to the system. | | |
| **Pre-conditions:** | **PRE\_1. Employers account must be logged in**  **PRE\_2. The job must exist in database** | | |
| **Post-conditions:** | The job is successfully deleted from the system and database. | | |
| **Normal Flow:** | **1.** Employer log in with an employer account  **2.** Click on the “job posted” link on the nav bar.  **3.** Click on the “delete” button of the job to be deleted  **4.** A confirmation box pops up, click “ok” to finish. | | |
| **Priority:** | High | | |
| **Frequency of Use:** | Usually | | |

#### 

#### View posted job

| Use Case ID: | FR03 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | View posted job | | |
| **Created By:** | Trung Nghĩa | **Updated By:** | Trung Nghĩa |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employer | | |
| **Triggers** | Employer click “job posted” link on the nav bar | | |
| **Description:** | Employer can view the list of job posted | | |
| **Pre-conditions:** | **PRE\_1. Employers account must be logged in** | | |
| **Post-conditions:** | A list of posted job will be displayed | | |
| **Normal Flow:** | **1.** Employer log in with an employer account  **2.** Click on the “job posted” link on the nav bar. | | |
| **Priority:** | High | | |
| **Frequency of Use:** | Usually | | |

#### View list CV

| Use Case ID: | FR04 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | View list CV | | |
| **Created By:** | Trung Nghĩa | **Updated By:** | Trung Nghĩa |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employer | | |
| **Triggers** | Employer click “View List CV” link when in job details page | | |
| **Description:** | Employer can view the list of CV applied to a specific job | | |
| **Pre-conditions:** | **PRE\_1. Employers account must be logged in**  **PRE\_2. The job must exist in database** | | |
| **Post-conditions:** | A list of CV will be displayed | | |
| **Normal Flow:** | **1.** Employer log in with an employer account  **2.** Click on the “job posted” link on the nav bar.  **3.** Click on a specific job to view job details  **4.** From the job details page, click on the “View List CV” button. | | |
| **Priority:** | High | | |
| **Frequency of Use:** | Usually | | |

#### Approve CV

| Use Case ID: | FR05 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Approve CV | | |
| **Created By:** | Trung Nghĩa | **Updated By:** | Trung Nghĩa |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employer | | |
| **Triggers** | Employer click on “Accept cv” button when in “view\_cv” page | | |
| **Description:** | Employer can accept cv applied to a specific job | | |
| **Pre-conditions:** | **PRE\_1. Employers account must be logged in**  **PRE\_2. The job must exist in database** | | |
| **Post-conditions:** | the CV is approved | | |
| **Normal Flow:** | **1.** Employers log in with an employer account.  **2.** Click on the “job posted” link on the nav bar.  **3.** Click on a job to view job details.  **4.** From the “job details” page, click on the “view cv list” button to access “list\_cv” page .  **5.** From the “list\_cv” page, click on a specific cv to access “view\_cv”page  **6.** From the “view\_cv” page, click on the “approve cv” button. | | |
| **Priority:** | High | | |
| **Frequency of Use:** | Usually | | |

#### View wallet

| Use Case ID: | FR06 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | View wallet | | |
| **Created By:** | Trung Nghĩa | **Updated By:** | Trung Nghĩa |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employer | | |
| **Triggers** | Employer click “Wallet” link on the nav bar | | |
| **Description:** | Employers can view wallet information, history. | | |
| **Pre-conditions:** | **PRE\_1. Employers account must be logged in** | | |
| **Post-conditions:** | A list wallet’s history and the current balance will be display | | |
| **Normal Flow:** | **1.** Employer log in with an employer account  **2.** Click on the “Wallet” link on the nav bar. | | |
| **Priority:** | High | | |
| **Frequency of Use:** | Usually | | |

### 3.1.2 Employees

#### Search job

| Use Case ID: | FR07 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Search job | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employee | | |
| **Triggers** | Users input fields to search for a specific job and click “Search” button | | |
| **Description:** | The user enters information such as name of job or company, location, salary, job type and the system will show the appropriate job | | |
| **Pre-conditions:** | **PRE\_1. User is in the Website**  **PRE\_2. User clicks on Search button** | | |
| **Post-conditions:** | A connection to the database is initialized. Job list searched will be shown. | | |
| **Normal Flow:** | **1.** User access homepage  **2.** User input some fields to filter job  **3.** Website will redirect to job list searched | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

#### View job

| Use Case ID: | FR08 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | View job | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employee | | |
| **Triggers** | Users click on a job on job list page or homepage | | |
| **Description:** | The user clicks on a job to see job details such as name, location, salary,... | | |
| **Pre-conditions:** | **PRE\_1. User is in the Website**  **PRE\_2. User clicks on a job** | | |
| **Post-conditions:** | A connection to the database is initialized. Job details will be shown. | | |
| **Normal Flow:** | **1.** User access homepage or job list page  **2.** User click on a job to view details  **3.** Website will redirect to job details page | | |
| **Priority:** | High | | |
| **Frequency of Use:** | Usually | | |

#### Create CV

| Use Case ID: | FR09 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Create CV | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employee | | |
| **Triggers** | Users input personal information to create a CV | | |
| **Description:** | The user enters personal information such as name, age, location, major and experience to create a CV | | |
| **Pre-conditions:** | **PRE\_1. User is in the Website** | | |
| **Post-conditions:** | A connection to the database is initialized. A CV details will be added to the database. | | |
| **Normal Flow:** | **1.** User clicks on “Create CV” button  **2.** User input fields required  **3.** User clicks on “Create CV” button  4. The system will show successfully notification | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

#### View CV

| Use Case ID: | FR10 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | View CV | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employee | | |
| **Triggers** | Users clicks “View CV” button on homepage | | |
| **Description:** | The user can view details of their CV such as their name, age, location, major and experience | | |
| **Pre-conditions:** | **PRE\_1. User is in the Website**  **PRE\_2. User clicks on “View CV” button** | | |
| **Post-conditions:** | A connection to the database is initialized. CV details will be shown. | | |
| **Normal Flow:** | **1.** User access homepage  **2.** User clicks on “View CV” button  **3.** Website will show CV of this user on View CV page | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

#### Edit CV

| Use Case ID: | FR11 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Edit CV | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employee | | |
| **Triggers** | Users clicks “Edit CV” button on View CV page | | |
| **Description:** | The user clicks “Edit CV” and then enters personal information, and then clicks “Save changes” button to edit | | |
| **Pre-conditions:** | **PRE\_1. User is in the Website**  **PRE\_2. User clicks on Search button** | | |
| **Post-conditions:** | A connection to the database is initialized. Job list searched will be shown. | | |
| **Normal Flow:** | **1.** User access homepage  **2.** User input some fields to filter job  **3.** Website will redirect to job list searched | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

#### Add job to wishlist

| Use Case ID: | FR12 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Add job to wishlist | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employee | | |
| **Triggers** | Users view details of a job and clicks on “Add wishlist” to view this job later | | |
| **Description:** | The user can view list of wishlist job and view details of this job on Wishlist page | | |
| **Pre-conditions:** | **PRE\_1. User is in the Website**  **PRE\_2. User clicks on Search button** | | |
| **Post-conditions:** | A connection to the database is initialized. Job list searched will be shown. | | |
| **Normal Flow:** | **1.** User access homepage  **2.** User input some fields to filter job  **3.** Website will redirect to job list searched | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

### 3.1.3 Administrators

#### Account management

| Use Case ID: | FR13 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Account management | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Admin | | |
| **Triggers** | - Admin click on the input boxes to enter personal information when they want to access the webpage of admin  -Admin click “Account management” button  -Account management page, Admin can delete account of user or view information by click button (Delete), button (View profile) | | |
| **Description:** | - The admin can view list of wishlist user (employee and employer) | | |
| **Pre-conditions:** | **PRE\_1. Admin login success**  **PRE\_2. Admin in the Webpage of admin**  **PRE\_3.Admin clicks on “Account management” button**  **PRE\_4.Admin clicks on button (Delete), button (View profile)** | | |
| **Post-conditions:** | A connection to the database is initialized. Update number account of users access in the database | | |
| **Normal Flow:** | **1.** Admin access homepage of admin  **2.** Admin can delete account of user and view information of user  **3.** Website will redirect to job list searched | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

#### View user profile

| Use Case ID: | FR14 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | View user profile | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Admin | | |
| **Triggers** | Admin access homepage of admin | | |
| **Description:** | -Admin view user profile (name, location, major,email,...) | | |
| **Pre-conditions:** | **PRE\_1. Admin login success**  **PRE\_2.Admin clicks on “Account management” button**  **PRE\_3.Admin clicks on “view profile” button** | | |
| **Post-conditions:** | none | | |
| **Normal Flow:** | **1.** Admin access homepage of admin  **2.** Admin view information of user | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

#### Banner management

| Use Case ID: | FR15 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Banner management | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Admin | | |
| **Triggers** | Admin access homepage of admin | | |
| **Description:** | Admin manage banner when the company of user paid the fee for every banner | | |
| **Pre-conditions:** | **PRE\_1. Admin login success**  **PRE\_2.Admin clicks on “Banner management” button** | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

### 3.1.4 Common feature

#### View profile

| Use Case ID: | FR16 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | View profile | | |
| **Created By:** | Trung Nghĩa | **Updated By:** | Trung Nghĩa |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employee, Employer | | |
| **Triggers** | -Employee, Employer click on “View profile” link on the nav bar  -Admin | | |
| **Description:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

#### Edit profile

| Use Case ID: | FR17 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Edit profile | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Admin | | |
| **Triggers** |  | | |
| **Description:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

#### Change password

| Use Case ID: | FR18 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Change password | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employee, Employer | | |
| **Triggers** | When the users click on change password | | |
| **Description:** | Users can change their account’s password if they want | | |
| **Pre-conditions:** | Click on the login | | |
| **Post-conditions:** | See all informations of account | | |
| **Normal Flow:** | **MK01\_NF\_1.** Users clicks on change password on the website  **MK01\_NF\_2.** Website returns to change password screen | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

#### Notification

| Use Case ID: | FR19 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Notification | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Admin | | |
| **Triggers** |  | | |
| **Description:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

#### Login

| Use Case ID: | FR20 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Login | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Admin , Employee, Employer | | |
| **Triggers** | Users click on the input boxes to enter personal information when they want to access the website | | |
| **Description:** | The user enters information such as username and password | | |
| **Pre-conditions:** | **MK01**\_**PRE\_1. User is in the Website** | | |
| **Post-conditions:** | A connection to the database is initialized. Update number of people access in the database | | |
| **Normal Flow:** | **NF\_1.** User clicks on login in the website  **NF\_2.** Website validates username and password  **NF\_3.** If either information including username or password is incorrect, an error message 'Invalid' will be displayed, otherwise, Website display all feature of each user’s class | | |
| **Priority:** | Normal | | |
| **Frequency of Use:** | Usually | | |

#### 

#### Logout

| Use Case ID: | FR21 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Logout | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Admin , Employee, Employer | | |
| **Triggers** | User click on the ‘Logout’ button on the Website | | |
| **Description:** | The user logs out of his account from the website, the website will now return MK01 | | |
| **Pre-conditions:** | **PRE\_1. User login successfully** | | |
| **Post-conditions:** | none | | |
| **Normal Flow:** | **NF\_1:** User clicks on the “Logout” button.  **NF\_2:** User returns to the website where the user has to login | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

#### Register

| Use Case ID: | MK01 | | |
| --- | --- | --- | --- |
| **Use Case Name:** | Register | | |
| **Created By:** | Trung Kiên | **Updated By:** | Trung Kiên |
| **Date Created:** | Oct 13, 2021 | **Last Updated:** | Nov 3, 2021 |
| **Actors:** | Employee, Employer | | |
| **Triggers** | User click on the ‘Register’ button on the Website when they want to login access the website | | |
| **Description:** | The user enters information such as username, password, email and choice employee or employer | | |
| **Pre-conditions:** | The user register suceess, they can login on the website | | |
| **Post-conditions:** | Create an account on the database. Update number of people access in the database | | |
| **Normal Flow:** | **NF\_1.** User clicks on Register in the website  **NF\_2.** user enters information such as username, password , email, employee or employer  **NF\_3.** If user enter full information,the Website display Register success | | |
| **Priority:** | Medium | | |
| **Frequency of Use:** | Usually | | |

## **3.2** Non-Functional Requirements Specification

### **3.2.1 Performance Requirements**

* The website does not require a powerful processor(Pentium(R)Dual-core CPU), more ram(256MB), or need card graphics. It will run stability But it can't be fully optimized yet, so it still needs to be tested and commented on by many people.
* The system shall accommodate a high number of jobs and users
* Responses to view information shall take no longer than 12 seconds to appear on the screen and will update soon.

#### 3.2.2 Design constraints

* Coding design constraints use the Model-View-Controller pattern.

**3.2.3 Security Requirements**

* System will use a secured database
* The system will have different types of users and every user has access constraints
* Users never see another account password. System back-end servers are only accessible by the administrator
* When the user forgets the password, the link to create a new password must be sent to the registered email address only.
* When the user makes an online payment, the system is not allowed to store the user's credit/debit card information.

**3.2.4 Audit Requirements**

* System data must be backed up daily, and valid for 30 days.
* Audited data must be Read Only and cannot be edited from the user interface.

# 4. Other requirements

## Appendix A: Entity Relationship Diagram

