**]MINISTRY OF EDUCATION AND TRAINING**

**FPT UNIVERSITY**

Capstone Project Document

**Tên đề tài**

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***Ho Chi Minh City***, ***January 6, 2015***

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# Definitions, Acronyms, and Abbreviations

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| --- | --- | --- |
| **No.** | **Abbreviation & Acronym** | **Definition** |
|  |  |  |

# Introduction

## Project Information

* Project name: Student and Business Website
* Project Code: SBW
* Product Type: Website Application
* Start Date: Jan 6th, 2015
* End Date: May 2nd, 2015

## Introduction

Nowadays, student have free time and want to find job get more income and experience. In other side, employers need to recruit suitable candidates in the shortest time. Our system automatic search candidates and notify for them.

Also, websites can support online contest in other to help business decrease time instead of traditional interview.

Business, school can create an event and system will announce to students.

System supports sharing material between students depending on hobbies, skills and jobs.

The goal of the website is to facilitate communication and sharing information between students and businesses, and also between students together.

## Current Situation

User must have register to use this web application. User can search job want to join or create a job to employ. After that, business can meet student to discussion about their job.

In Vietnam, all most websites don’t support all the features that we extend to provide, such as: jobstreet.vn only support job recruiting, freelancer.com don’t support event…

So inclusion, we create all-sided solution to solve above problems.

## Problem Definition

Users want to find job, and suppliers want to find out candidates for their work. But the interaction between them is not efficient, such as employees need to find jobs, but they don’t have chance to review or heard from others about the job that employers provide.

People who want to take job do not have place to discuss about the job or career that they care together.

students want to share information and some knowledge for group or anyone have same hobby or jobs, but almost websites for job seeking not have function share or comment to people know or learn skill for that job.

## Proposed Solution

Website will auto find candidate for job which had been created on website, after website will notify information’s students about that job to employer and notify to all students had been match with that job.

Help employer can make a contest online to filter candidate if have more than they needs.

When a student upload a material, system will auto suggest students needs that material, they have same hobbies, group or company…

### **Feature functions**

* Create curriculum vitae online.
* Create form recruitment online with skill, session, age, time …
* Auto search students base on skill, session, age, time.. from form recruitment.
* Auto notify for both students and employer about job, list candidate.
* Auto find your friend or your group, colleague... to share material.
* Create test for students if employer need small quantity while website have more.

### Advantages and disadvantages

Advantages:

* Help employer can find candidates in short time, may be some minutes. And can help them contact with those candidates.
* Quick select candidates after employer have a large list candidates.
* share material between student with student.

Disadvantages:

* Matching students with employers is not exactly.
* Manage test bank with session job is not good.

## Functional Requirement

Function requirements of the system are listed as below:

* Member management: to use the website, all students and businesses may be need to register.
* Employment information management: the businesses can post employment request, then students can post their curriculum vitae to apply the jobs. The system should suggest the best matching between the request and curriculum vitae.
* Contest/events management: the business can post information about contest or events, then student can join it
* Manage sharing material learning between student together
* Searching, statistic.

## Role and Responsibility

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Full Name | Role | Position | Contact |
| 1 | Nguyễn Trọng Tài | Project Manager | Instructor | TaiNT@fpt.edu.vn |
| 2 | Nguyễn Văn Linh | Developer | Leader | Linhnvse60914@fpt.edu.vn |
| 3 | Hoàng Ngọc Anh | Developer | Member | Anhhnse61099@fpt.edu.vn |
| 4 | Lương Quốc Trung | Developer | Member | Trunglqse60903@fpt.edu.vn |
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| 6 | Vũ Thế Anh | Developer | Member | AnhVT60111@fpt.edu.vn |

Table 1: Roles and Responsibility

# Software Project Management Plan

## Problem Definition

### Name of this Capstone Project

### Problem Abstract

### Project Overview

#### Current Situation and Disadvantages

#### The Proposed System

#### Boundaries of the System

#### Development Environment

##### Hardware requirements

**For Server**

|  |  |  |
| --- | --- | --- |
| Windows | Minimum Requirements | Recommended |
| Internet Connection | Cable, Wifi (4 Mbps) | Cable, Wifi (8 Mbps) |
| Operating System | XP, Vista, 7, 8 | XP, Vista, 7, 8 |
| Computer Processor | Intel® Core 2 Duo | Intel® Core(TM) i5 CPU , M 460 @ 2.53GHz |
| Computer Memory | 1GB RAM | 3GB or more |

Table 2: Hardware Requirement for Server

**For Mobile Application**

|  |  |  |
| --- | --- | --- |
| Windows | Minimum Requirements | Recommended |
| Internet Connection | Cable, Wifi (4 Mbps) | Cable, Wifi (8 Mbps) |
| Operating System | XP, Vista, 7, 8 | XP, Vista, 7, 8 |
| Computer Processor | Intel® Core 2 Duo | Intel® Core(TM) i5 CPU , M 460 @ 2.53GHz |
| Computer Memory | 1GB RAM | 3GB or more |

**Table 3: Hardware Requirement for Mobile**

##### Software requirements

## Project organization

### Software Process Model

### Roles and responsibilities

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Full name** | **Role in Group** | **Responsibilities** |
| **1** | Nguyễn Trọng Tài | Project manager | * Specify user requirement * Control the development process * Give out technique and business analysis support |

Table 3: Roles and Responsibility Details

### Tools and Techniques

## Project Management Plan

### Software Development Life Cycle

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Phase** | **Description** | **Deliverables** | **Resource needed** | **Dependencies and Constraints** | **Risks** |
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Table 4: Software Development Life Cycle Detail

### All Meeting Minutes

Refer to Meeting Minutes folder.

## Coding Convention

# Software Requirement Specification

## User Requirement Specification

### Guest Requirement

### Member Requirement

### Partner Requirement

### Staff Requirement

### Admin Requirement

## System Requirement Specification

### External Interface Requirement

#### User Interface

#### Hardware Interface

#### Software Interface

#### Communication Protocol

### System Overview Use Case

Figure 2: System Overview Use Case

### List of Use Case

#### <Guest>Overview Use Case

Figure 3: <Guest> Overview Use Case

##### <Guest> Register

Use Case Diagram

Figure 4: <Guest> Register

Use Case Specification

|  |  |  |  |
| --- | --- | --- | --- |
| **USE CASE – CPS001** | | | |
| **Use Case No.** |  | **Use Case Version** |  |
| **Use Case Name** |  | | |
| **Author** |  | | |
| **Date** |  | **Priority** |  |
| **Actor:**  **Summary:**  **Goal:**  **Triggers:**  **Preconditions:**  **Post Conditions:**   * **Success:** * **Fail:**   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Respone | |  |  |  | |  |  |  | |  |  |  |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | ctor Action | System Response | |  |  |  |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  |   **Relationships:** N/A  **Business Rules:** | | | |

Table 10: <Guest> Register

## Software System Attribute

### Usability

#### Graphic User Interface

#### Usability

#### Installation

### Reliability

### Availability

### Security

### Maintainability

### Portability

### Performance

## Conceptual Diagram

### Data Dictionary

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# Software Design Description

## Design Overview

## System Architectural Design

### Web Application architecture description

### Mobile Application architecture description

## Component Diagram

## Detailed Description

### Class Diagram

### Class Diagram Explanation

#### Role

|  |  |  |  |
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### Interaction Diagram

#### <Member> View Friend List

## User Interface Design

### Guest Interface Design

#### Login

Figure 12: Login

**Fields**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Description** | **Read only** | **Mandatory** | **Control Type** | **Data Type** | **Length** |
|  |  |  |  |  |  |  |  |

**Buttons/ Hyperlinks**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Function** | **Description** | **Validation** | **Outcome** |
|  |  |  |  |  |

## Database Design

### Logical Diagram

### Data Dictionary

## Algorithms

### Document Breakdown

#### Definition

#### Define Problem

#### Solution

#### Complexity

#### Flow Chart

### String Comparison

#### Define Problem

#### Requirement

#### Solution

#### Example

# System Implementation & Test

## Introduction

### Overview

### Test Approach

## Database Relationship Diagram

### Physical Diagram

### Data Dictionary

|  |  |
| --- | --- |
| **Entity Data dictionary: describe content of all entities** | |
| Entity Name | Description |
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Table 14: Data Dictionary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Entity name** | **Attributes** | **Description** | **Domain** | **Null** |
|  |  |  |  |  |
|  |  |  |  |
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|  |  |  |  |
|  |  |  |  |

Table 15: Attribute Data Dictionary

## Performance Measures

### Clustering Performance

## Test Plan

### Features to be tested

### Features not to be tested

* qweqwe
* qweqw

## System Testing Test Case

### Guest Test Case

#### Search Event

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected output** | **Inter-test Case Dependence** | **Result** | **Test Date** | **Note** |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

# Software User’s Manual

## Installation Guide

### Setting up environment at server side

#### Hardware requirements

#### Software requirements

### Deployment at server side

#### Prepare deployment package

#### Configure Server before deploy

#### Deploy web application on server

### Setting up the environment at client side

#### Setting up for computer

## User Guide

# Appendix