

**Undergraduate Final Year Project Proposal**  
**Application Solve Employment Problem**  
**Ngo Hoang Thanh**  
**COMP1682.1**  
**001197080**

## **1. OverView**

With the current complicated situation of the Covid-19 epidemic, many people have lost their jobs. Therefore, I think the current employment problem is also one of the urgent issues that need to be solved. With the development of technology in addition to the fact that people have limited travel, today it is becoming more and more popular for people to search for jobs through online job search services. That's why I came up with the idea of developing a job search website to help people solve their job problems. Nowadays, have a lot of big job search websites like: vietnamworks.com, vietsinworks.com, mywork.com.vn or careerlink.com etc. The above websites provide a lot of convenient functions so that people can easily find the job they want such as: filtering jobs by industry, location, salary, etc.; Search function by entering job name, company or search keyword. In addition to helping users easily find jobs, the above websites also provide users with the function of creating CVs directly and submitting them easily. There are also many other functions such as: suggesting to users about top companies and jobs, receiving notifications of new jobs, saving jobs, supporting multi-language functions etc. Besides the good aspects of the above websites, I feel they also have some limitations such as: users and employers are difficult to communicate with each other, users may not trust the reviews about the company or job postings etc. Therefore, I want to develop my website in a way that not only provides users with the same functions as existing websites, but also develops new functions such as: commenting on job postings or companies, developing chat function between users and recruiters etc.

## **2. Aim**

The goal of this project is to create a recruitment website that overcomes the shortcomings of existing recruitment websites while also meeting the advantages of those websites in order to create the best environment to help bring job fairs all over Vietnam

## **3. Objectives**

### **3.1. Research**

#### **3.1.1. Research customer requirements**

In this step, I will use Google Forms to collect the opinions of both the company's human resources department and job seeker to determine what their requirements are through which I will summarize list good and feasible ideas to apply to my project.

### **3.1.2 Research on the interface and function for the system**

From the requests received from customers and I will also refer to other similar websites to conduct research, develop the interface and function of the system to this project.

### **3.1.3 Research about technical for the system**

For the technology part, for the Front-end array I will use HTML, CSS, Bootstraps, JavaScrips, jQuery, ReactJS. These are the technologies most commonly used today on the Front-end side. As for Back-end array, I choose use C# language with .NET Core Framework and database I will use Sql Server for this project

## **3.2. Application Development:**

### **3.2.1 Design the interface and functionality for the application.**

I will check and refer to websites available online with the goal of building a beautiful, friendly interface and helping users have the best experience when using. Along with that, I will also develop the necessary functions for the application such as: login, register, search, post, submit CV and so on.

### **3.2.2 Design**

There are different designs with different functions applied in this project which are specifically described as follows:

- Use Case Diagram: I use to describe user interaction with system features.
- Data Flow Diagram (DFD): It provides an overview of the system data flow. It also shows us the input and output of the data, giving us a more in-depth look at how the data is being processed.
- Entity Relationship Diagram (ERD): It is a diagram showing the entities in the database and the relationship between them.
- Wireframe: I use Wireframe to visually create a blueprint from my project ideas for easy development and modification.

### **3.2.3. Implementation**

Once I have completed all the design steps and selected a development technology, I will start developing my application. I will try to develop the application in accordance with the above designs to create the most complete website.

## **3.3. Testing and Deployment**

### **3.3.1 Testing**

After completing the project, I will proceed to check that the system functions are working according to the original requirements. After that, if there is an error or something is not right I will repair it to improve the product better.

### **3.3.2 Deployment**

After going through all the steps then I will proceed to deploy my app to Heroku.

## **3.4. Conclusion**

In this section, I will summarize what I have done and seriously evaluate whether my product has met the initial targets set out or not. If there's something unfinished, I'll fix it right away.

After completing the initial targets, the system is basically considered complete but I will also learn and receive contributions from the community so that the product can be more and more perfect.

## **4. Legal, Social, Ethical and Professional**

### **a. Legal**

According to (Nagree, 2005), First, this project will ensure compliance with the core legal issues of an e-commerce website: contracts, security, authentication, privacy and data protection, intellectual property rights, domain names, jurisdiction and taxation. In addition to the above problems, I will also make sure that there are no other problems arising in this project

### **b. Social**

Currently, the issue of employment in Vietnam is one of the issues that need top attention. According to (Terence Tai Leung Chong, 2020), Vietnam's unemployment rate was 2.22% in the first quarter of 2020 but rose to 2.73% in the second quarter (Terence Tai Leung Chong, 2020) and now that percentage is even higher. Therefore, finding jobs for people or human resources for companies is also a rather urgent issue. I think this project will be the best way to solve the above problem. In today's internet age, by creating a job website, it will help companies easily find human resources and people also easily find their desired job easily. Especially during the current period of limited travel.

### **c. Ethical and Professional**

In order to create a professional working environment for everyone, ethics is also a top priority in this project. I will ensure that my project will cover basic ethical issues such as: trust, security and privacy and loyalty according to (Lijuan, 2013). Besides, it also does not violate the prohibited acts for the website: perform fraudulent acts, violate intellectual property rights, use false information to deceive others or steal and save money. Disclosing confidential information of individuals or organizations, etc (luattriminh, 2021).

## **5. Planning**

The following describes the overall progress of the project:

[illegible]

## 6. Initial Reference

Lijuan, G. S. a. W., 2013. Ethical perspectives on e-commerce: an empirical investigation. pp. 7-9.

luattriminh, 2021. *Tổng hợp những hành vi bị cấm hoạt động thương mại điện tử*. [Online]  
Available at: <https://luattriminh.vn/bi-cam-hoat-dong-thuong-mai-dien-tu-vi-cac-hanh-vi-sau-day.html>

Nagree, A. S. a. P., 2005. LEGAL ISSUES IN eCOMMERCE. pp. 4-12.

Terence Tai Leung Chong, X. L. & C. Y., 2020. *The impact of COVID-19 on ASEAN*. [Online]  
Available at: <https://www.tandfonline.com/doi/full/10.1080/20954816.2020.1839166>  
[Accessed 16 November 2020].