

Islington College



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Final Year Project CS5P05

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1. Introduction:

The project title for the FYP module is “Job recommendation system”. We all know that it is not easy to get job in Nepal despite qualifications a person possesses. He/she has to travel to different locations in order to explore the kind of jobs they want to do. It is time-consuming to travel to different locations and also it is quite difficult to follow all the long procedures. So many works nowadays have been simplified by the use of online facilities. Thus, Job recommendation system comes up with the solution to the people who are willing to apply for their desired post via website.

Job recommendation system is an online website system which consists of an Admin, a Job seeker and a Job giver. The admin should login to get access to view the people who applied in the website. The admin cannot respond to anyone. The admin can only see the people/company who have registered themselves in the website and can also delete particular appliances. The job seeker should fill up the form which consists of informations of him/her including Name, Date of Birth, E-mail, Address, Qualifications, Skills, etc. The Job seekers who have applied can be viewed by the admin. The Job giver are the companies who will have to register their company in the website by filling up their basic informations and the type of candidates they want to hire. If the requirements of a company based on the types of candidates they want matches, the candidates who have applies will be notified. The candidates can then proceed to apply for the company they want to explore.

The main theme of the website of Job recommendation system will consist of three types of people/company who will have to work on their respective tabs i.e. Admin, Job seeker and Job giver. The Admin can view the people/company who have applied on this website and

can delete particular lists. The Job seeker, who will have to fill up the form containing their basic informations and skills to show their capabilities to companies. The Job giver, who will select the best candidates.

2. Background/literature review:

2.1. Resource requirements:

2.1.1. Hypertext Preprocessor (PHP):

PHP is a server-side scripting language that is embedded in HTML. It can be used for various purposes such as managing dynamic content, databases, session tracking and build websites such as e-commerce sites. It is also compatible with popular databases such as MySQL, Oracle, Sybase, Informix. PHP performs system functions, i.e. from files on a system it can create, open, read, write, and close forms. PHP can also handle forms which can gather data from files, save data to a file and send data through email. Also, the elements in the database can be added, modified and deleted through PHP. Using PHP, we can restrict users to access some pages of the website. (Lathkar, 2019)

2.1.2. Hypertext markup language (HTML):

HTML stands for HyperText Markup Language and is a programming language for website creation.

These websites can be viewed by anyone else having internet connection. The HTML programming language is relatively easy to learn. This programming language consists of a series of tags typed in a text-file. This text-file is then saved as html file and viewed through the browser like Internet Explorer.

Different tags will perform different functions. The html file created is then designed by using Cascading Stylesheets (CSS). (Jamsa, 2013)

2.1.3. Cascading Stylesheets (CSS):

Cascading Stylesheets, CSS is a programming language used to design and describe reusable styles for presenting documents in a markup language. The task of CSS is to alter the layout and appearance of the web pages like designing the fonts used in particular HTML elements including its size and color. A CSS file can be linked to multiple pages making it easy for the developer to change the appearance of all the pages at the same time. CSS is not a markup language and it is used to define the font, font size, font weight, its position and various visual settings. (mozilla, 2019)

2.1.4. JavaScript (JS):

JavaScript is a scripting language, primarily used on the Web to enhance HTML pages and is commonly mixed up with HTML code. Since JavaScript is an interpreted language, it does not need to be compiled. The JavaScript renders web application in an interactive and dynamic fashion which allows the pages to react to events, exhibit special effects, validate date, create cookies and so on. In a HTML file, the JavaScript file is opened using the Script element and enclosed by the Script tags. JavaScript files are known by the .js extension. (Morris, 2012)

2.1.5. Bootstrap:

Bootstrap is the most popular HTML, CSS and JS framework for developing a responsive projects on the website application. It is a free and open source front end development framework used in the creation of websites and web apps. Bootstrap includes user interface components, layouts and JS tools along with the framework for implementation. (RB Team, 2019)

3. Development to date:

3.1. Use case diagram of the entire system:

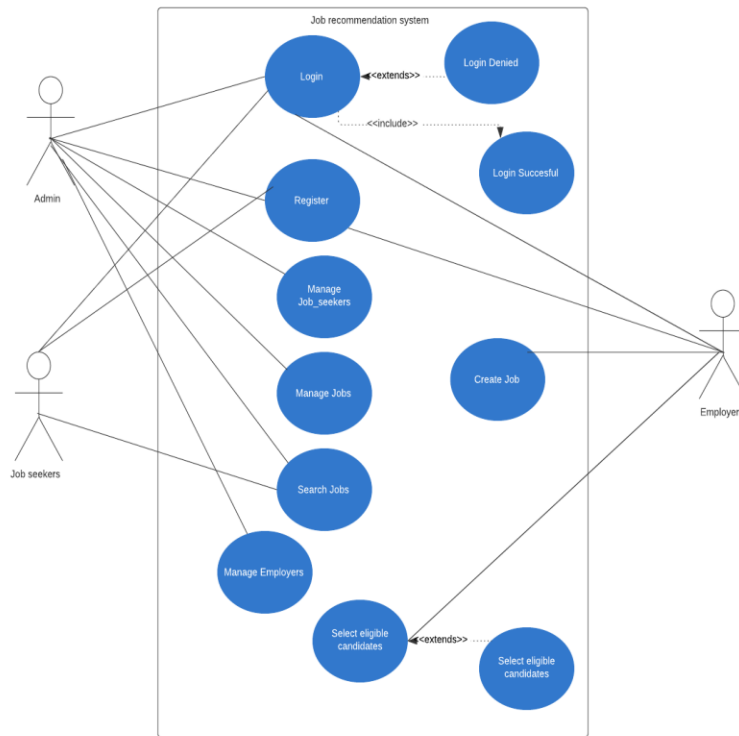


Figure 1: Use case diagram

3.2. High level use case of the system:

3.2.1. High level use case for Login:

Login
Use Case: Login
Actor (s): Admin, Job seekers, Employer
Description: In order to gain access to the account, the actors must first login.

Table 1: High level use case for Login

3.2.2. High level use case for Register:

Register
Use Case: Register
Actor (s): Admin, Employer, Job seekers
Description: In order to create an account on this Job portal, one must first register filling up the basic informations.

Table 2: High level use case for Register

3.2.3. High level use case for Manage Jobs:

Manage Jobs
Use case: Manage Jobs
Actor: Admin
Description: The admin can view the jobs which have been posted in the website and also has the authority to delete some jobs.

Table 3: High level use case for Manage Jobs

3.2.4. High level use case for Manage Job seekers:

Manage Job seekers
Use case: Manage Job seekers
Actor: Admin
Description: The admin can view the job seekers who have applied for a particular company and also has the authority to delete some job seekers.

Table 4: High level use case for Manage Job seekers

3.2.5. High level use case for Manage Employers:

Manage Employers
Use case: Manage Employers
Actor: Admin
Description: The admin can view the employers who have created an account in the website and also has the authority to delete some employers.

Table 5: High level use case for Manage Employers

3.2.6. High level use case for Create Jobs:

Create Jobs
Use case: Create Jobs
Actor: Employer
Description: The employer after creating their account on the website can post the type of jobs

Table 6: High level use case for Create Jobs

3.2.7. High level use case for Select eligible candidates:

Select eligible candidates
Use case: Select eligible candidates
Actor: Employer
Description: The employer selects the type of candidates they want to hire after looking at the list of job seekers and selecting the eligible ones.

Table 7: High level use case for Select eligible candidates

3.2.8. High level use case for Apply for a company:

Apply for a company
Use case: Apply for a company
Actor: Job seekers
Description: The job seekers can apply for the company they want to after looking at the list of the companies which satisfies their desired job level.

Table 8: High level use case for Apply for a company

3.2.9. High level use case for Search Job:

Search Job
Use case: Search Job
Actor: Job seekers
Description: The Job seekers can explore the companies they want to apply to after successfully logging in to their account.

Table 9: High level use case for Search Job

3.3. Created a home page of the project:

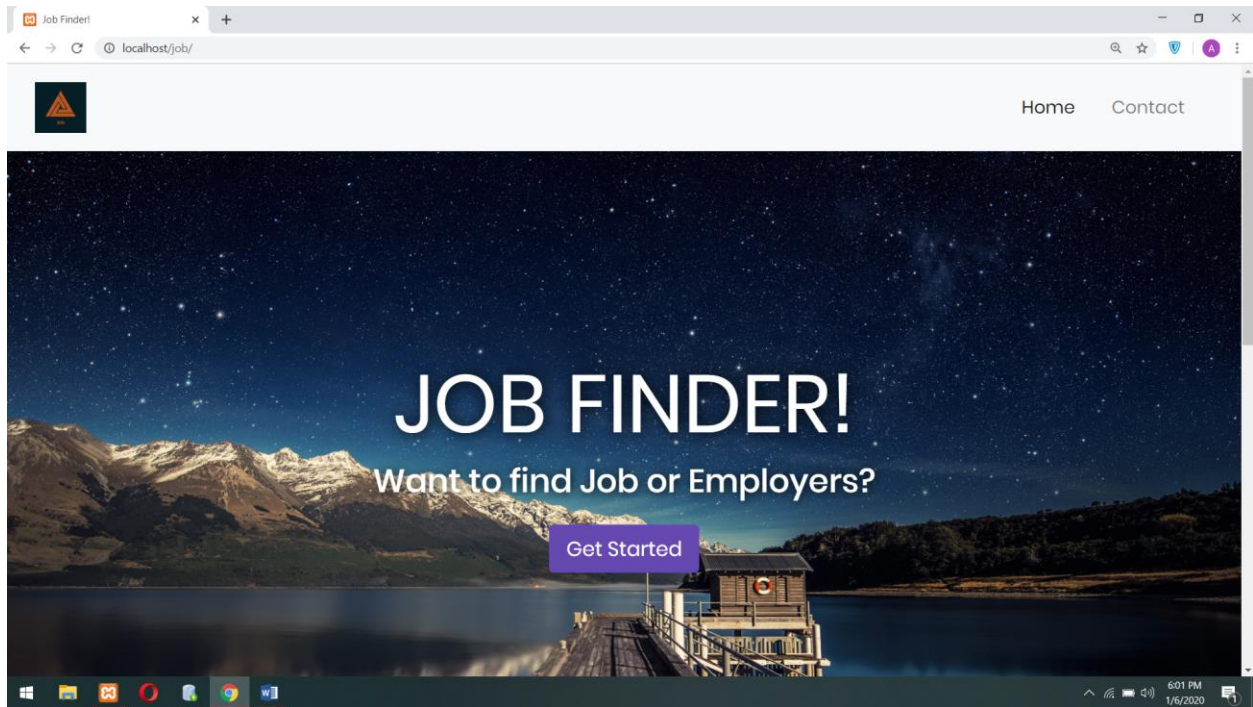


Figure 2: Home page of the project

4. Analysis of progress:

For the module Final Year Project, I have decided to create a Job portal. After the development of the project, several diagrams must be created making clear explanation of the existing system and showing how the system responds.

So far, I have created a use case diagram showing the relationship of the actors in the system with various use cases. By gathering informations from both internal and external supervisors, I created a use case diagram. For the clear explanation of each of the use case, I then created a high level use case.

Moving into the development part, I have created a home page of the Job portal. The works were divided and planned by me previously and so far, I have somehow managed to go according to the plan.

5. Future Work:

Firstly, I should proceed on coding and development of the entire project under the guidance of my respected supervisors. I have now planned to show as much progress on development of the project on every week of the meeting. Then, I will have much clearer knowledge on the things to be added on the developed project. Also, I have now planned to create an expanded use case of every use case since I have successfully created a valid use case diagram of the system. Then, I should focus on normalization after gathering entities and attributes which helps me to create an entity relationship diagram. Then, I should create data flow diagrams, sequence diagram and class diagram in the upcoming days.

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