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# **Proposal For**

## **Job Hunting Website Development**

### **Project: Get Scouted**

**CSE482:Internet and Web Technology**

**Submitted To-**

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# Introduction

This is a proposal for the development of an online portal to provide job searchers with a platform to locate the correct and satisfying job for them based on their qualifications. It also connects the job seekers with the major agencies. It also has a Jobs platform where Job Seekers can submit their CVs and apply for job openings, and Employers may choose the best employees from the available CVs. This is essentially a job portal where job seekers apply for employment and employers post opportunities and choose potential candidates. Job portals are designed to supply all types of jobs and to assist people in finding them. This document includes requirements, product vision, user stories, a development timeline, and expectations for each phase.

## Background

There are a number of job portals that are popular in Bangladesh at the present time. On those sites, people explore and search for open positions. They can also look at the profiles of employers. Employers pay those websites to display their job openings in order to attract applicants. In exchange for a fee or subscription, those sites also allow companies to search for candidate profiles that match their requirements. Employers essentially pay for the service, while job seekers get a free portal. Other websites allow service providers and candidates to freely advertise their services. Employers also receive a free listing of service suppliers. This value chain appears straightforward: both service seekers and providers gain access to a cross-connection site. These portals make money by displaying sponsored adverts beneath their listings or by displaying banner advertisements on the portal itself. Individual candidates rarely list their abilities for hire on such portals, though. This is a distinction between traditional employment platforms and these portals. The viewpoint is, in general, a complete reversal of the first category. To put it another way, candidates publish their availability for specific talents on employment marketplaces. The employer has the option of browsing and selecting who he or she wants to collaborate with or hire. Their appearance, on the other hand, resembles a general marketplace for any item or service rather than a traditional job/employment portal. This is the second classification. The third type of work portal is known as a freelancing site. For instance, take a look at [www.Upwork.com](http://www.Upwork.com). Candidates list their qualifications, as well as their availability and pricing. Employers may view, search, browse, and filter candidates for free and without revealing their identities. As a result, the service direction is polar opposites to the first category. When candidates are compensated for their efforts, the portal earns money. As a result, employers are the principal customers of such sites, although candidates pay a fraction of their income for the service. Now we'll move on to the fourth category, Solutions for social networking. In the employment portal industry, they have some overlap. LinkedIn, Facebook, and Google Plus are just a few of the major social media sites that display a person's professional profile. However, in their free version, they do not allow you to enlist/filter prospects from the perspective of HR. Regardless of their large database of profiles; their utility from the perspective of an HR manager does not bring much value. One of their flaws is in this area.

Given the four types of job/service portals listed above, there is room for a service that combines categories 1, 2, and 3 in a delicate mixture. By making it free for both employers and candidates, for example. Employers will be able to view and filter candidate profiles anonymously, similar to how freelancing sites do. Using the portal's features, they will be able to shortlist, sort, and search for keywords, as well as inform prospective prospects. Employers can use this gateway to conduct a quick chat session with possible candidates via instant messages, voice/video chats, and other means. Employers can also get a report on abilities and competence levels spread on a map, as well as view candidates' geo-location information on a map. There will be the possibility to view real-time data on skill distributions in the same way that weather channels display heat maps. Employers can use this information to choose where their next office should be located in the world to ensure the best possible human resource supply. Candidates, on the other hand, will be able to quickly list all formal and non-formal talents that they believe are relevant to the job market. They'll also be able to advertise their charitable services. In a similar heat map, this portal will offer statistics on employer searches and inquiries. The candidate will be able to make educated decisions on where to go and what talents are in great demand. This portal will also forecast whether demand for a certain talent is increasing or decreasing based on previous data. On the platform, candidates will be able to establish alliances and groupings based on their shared interests and skills. The interior design architecture will change dramatically when more SNS tones and features are added. The more interactive aspects are included, the further the design architecture deviates from traditional design. It will be more reliant on scalable middleware and the implementation of service-oriented architecture. We need to make a few design decisions based on a one-year goal. They may be few, but they are critical in avoiding rework.

## User Story

### Use Case 1:

Mrs. Mita is working as a project development manager under X company. She needs 3 front-end developers for her project. What she can do is-

1. Search in our Get Scouted job site. She can filter out the candidates that have front-end developing skills. She can sort the resumes based on her requirements like Job experience, Salary range, Grade, Education, etc. She needs to be able to shortlist the candidates and send them mail or mobile notification for the next level of activities like interviews/exams etc.
2. Or she can give a job vacancy post on our website with all the details. Based on her Job details system should send a notification to those whose competencies match her requirements and they can apply for the job. She will be able to sort the resume and send notifications for the next level of activities.

## Use Case 2:

Nabil has graduated from X University this year. He's looking for a software development company to work full-time as a software developer. What he can do is-

1. Search in our Get Scouted site for all the vacant job posts regarding software development. From there he can apply to many companies for the position of a software developer. He can also sort his list based on location, salary, and other extra services.
2. He can also give a post in our Get Scouted mentioning his skills, requirements, and the position he is looking for. If an employer gets interested from looking at his profile he/she can contact him for the next level of activities.

## Use Case 3:

The admins of the Get Scouted website will overlook all the posts and see if everyone is following the protocols. They'll also be able to cancel membership (profile ban) if anyone violates any rules or tries to take any illegal means.

1. We'll keep a sign-up authentication email process to make sure no one can use a single email multiple times.
2. We'll provide strong passwords when the user requests a new password.
3. We'll also make sure that all the companies signing up on this website is trustable by giving a thorough check-up on their company profile.
4. We'll make sure both the candidates and employers provide all the necessary information while creating their profiles.

# Solution Description

## Architecture

Get Scouted will be browsed by various users through android, iOS, Windows, Linux, and many other operating systems. The webpage will work as a platform for diverse types of clients. It'll be a middleman to connect companies with various fresh graduates with new work opportunities.

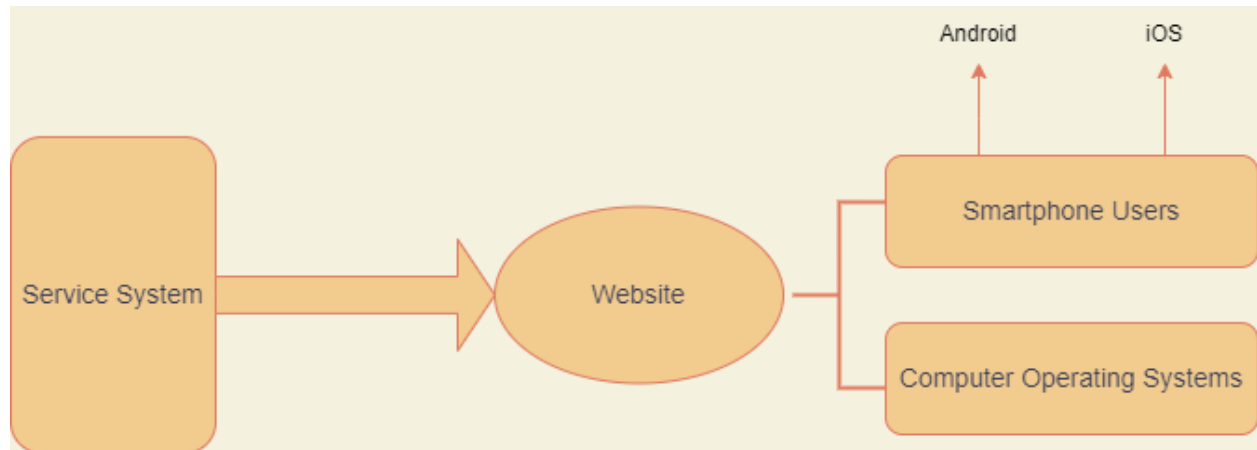


Figure 1: Architecture Plan

In the first phase, we will make a detailed plan on the services we are going to include for our website. We will organize all the web pages as such. We will make the basic structure with HTML and CSS. Later we will use bootstrap and js to make our web page responsive.

For creating a database we will use MySQL language. We'll create separate data sections for the candidates based on the job requirements. Students from different sectors can look for jobs that suit their field of study. All the basic profile information will be saved in the database.

Similarly, companies will have their own data section where the vacancy posts will be sorted into different sections based on work requirements. The company working procedure As admins, we will look over the whole database and continue to maintain it. For the backend part, we plan to use the js and PHP language.

## Front-End Plan

1. Home page
2. Registration/Sign-up page (admin, company, candidate)
3. Log-in page (admin, company, candidate)
4. Job post pages
5. Job details page
6. Employer details page
7. Job creation page
8. Search result page

## Backend Plan

1. Account Making & Monitoring
  - A. Sign up form, verification by code
  - B. Login
  - C. Google login
  - D. Facebook login

- E. Forgot password
- 2. Profile Management
  - A. Candidate profile
  - B. Company profile
  - C. Job profile
  - D. others
- 3. Searching Facilities
  - A. Category-based job search
  - B. Employer-based search
  - C. Vacancy-based search
  - D. Others

## Development Plan

We plan to divide the works into 3 different phases. Every member will simultaneously work on a single phase together. We will organize the works so that we can reach the designated checkpoints.

### Checkpoint-1

**Plan:** For checkpoint 1 we will first make a detailed plan on what we want to include in our web-based project. We'll organize all the thoughts and planning and make a detailed project proposal. We'll also make a use case diagram to summarize our main plan and the project purpose.

**Deliverables:** We will submit the project proposal and use case diagram for our first checkpoint.

### Checkpoint-2

**Plan:** For checkpoint 2, we'll develop all the necessary web pages for making our website. We plan to make responsive web pages during the allocated time

**Deliverables:** We will showcase the web pages we created using HTML, CSS, and JS.

### Checkpoint-3

**Plan:** For checkpoint 3, we'll start working on the backend part. We'll connect all the web pages we created using the PHP language.

**Deliverables:** All the web pages would be connected and functional.

## Checkpoint-4

**Plan:** For checkpoint 4, we'll work on hosting and API calls. We'll use Google Maps API. also we'll work on wrapping up our project.

**Deliverables:** Location-based search will be implementable after checkpoint-4. A completely functional website is to be expected.

## Project Schedule

SL	Deliverable	Week					Week
		1	2	3	4	5	
1	Planning, Project Proposal, Use Case Diagram						2
2	Interface Design						2
3	PHP and DB Interaction						2
4	Hosting and API Calls						2
5	Deliver project						1

## Budgetary Price

Following table shows development expense. In addition, based on requirements as revealed during project development we will help Get Scouted choose the appropriate cloud hosting. That expense is not included here.

SL	Deliverable	Expense
1	UI design	15000
2	Front-end Development	25000
3	Back-end Development	25000



4	Database Design	20000
5	UI Integration	15000
6	Total	100000

## Appendix

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