PROJECT PROPOSAL

JOBWIND

If opportunity doesn't knock, build a door.

A JOB PORTAL WEBSITE

PREPARED FOR:

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PREPARED BY:

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Introduction

Looking for a new job is a complex dynamic process that requires unemployed people to make a variety of decisions. So far, economic research has discovered numerous factors of search behavior that have a significant impact on a job seeker's chances of employment. This includes the number of applications received, the use of various search channels, prospective commute time, and reservation wages. At the same time, it appears that job searchers are failing to select search techniques that maximize their employment possibilities. Finding the "correct" applicant to call for job interviews is a particularly difficult challenge in this regard.

Against this environment, we plan to develop an improved online job portal site that gives job recruiters information to help them optimize their job applicant search approach. The site will specifically assist job recruiters in spotting suitable applicants. The site will provide suggestions to current job searchers regarding occupations in which each job seeker has a very high possibility of employment. We will create a variation of the site that takes extra individual-level information from job applicants into consideration, such as their unique skills, abilities, and other personal traits. As a result, we will also give job search assistance that is highly personalized and takes into consideration the job seeker's unique position.

Goals

- Develop a system that connects job applicants and recruiters.
- Create a user-friendly job portal with essential functions.
- Develop a Database for maintaining user and job recruiter records.
- Develop a specific 'Filter' function for skills and abilities.

Objectives

- Create a function for job recruiters to contact job applicants when needed.
- Develop a more user-friendly job portal that has multiple options when searching/filtering job applicants. so that job recruiters can find suitable applicants easily.
- Maintain the Database more efficiently alongside cloud facilities.
- Improve user experience and provide an attractive User Interface by adding modern theme sets and features.

Methodology

The methodology used here can be identified as Agile methodology. Developed and released in incremental phases or 'iterations'. It provides many opportunities to assess whether the application is moving in the right direction throughout the development cycle. If the developers feel that the application needs some changes due to a change in customer requirements, the project is likely to pivot at any stage of application development. The result of this "test and adapt approach" is to reduce developer effort and time and to be able to deliver an application with a high probability of success.

1. Understanding the client's requirement

We focused on the world of work because everything is done online these days. The need to introduce the job-hunting application is to facilitate and speed up the process of organizations looking for employees for jobs in their organization. Also, employees who are looking for a job can quickly and easily find a job that suits their abilities.

2. Designing the requirements

In this web application, the user or employer can enter their information, and job skills, and create a profile. Any company can filter suitable employers by searching for the skill they need. Then they can contact the selected employers using the information in their profile.

3. Develop/ iteration

The job begins when our team identifies the requirements. Designers and developers begin work on a project to deliver a functional result. The product will go through several rounds of development; thus, it will have simplistic, minimum functionality.

4. Testing

At this stage, our team checks the performance of the product, finds and fixes errors, and creates a website with minimal errors.
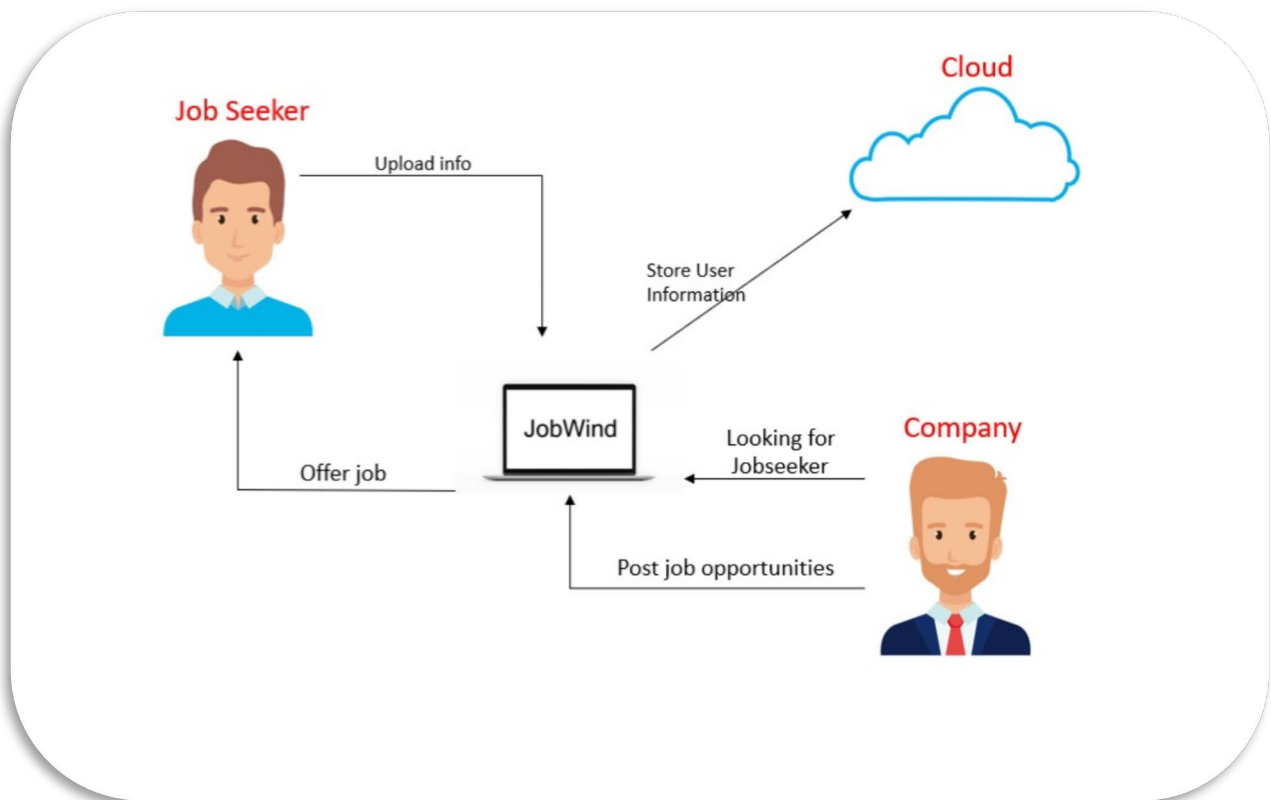
5. Deployment

The web application was published to the client environment after all functional and non-functional testing was completed.

6. User's Feedback

After the web application is released, the last step is feedback. Here, our team receives feedback on the web application and acts on the feedback.

Block Diagram

Expected tools and technologies to be used

1. Adobe XD
   - Adobe XD is a vector design tool for web and mobile applications, developed and published by Adobe Inc.. [1]

2. Google Cloud Platform
   - The Google Cloud console is a web-based, graphical user interface that users can use to manage their Google Cloud projects and resources. [2]

3. WordPress
   - WordPress is a content management system (CMS) that allows you to host and build websites. [3]

4. HTML, CSS
   - The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser and CSS (Cascading Style Sheets) is used to style and layout web pages. [4] [5]

5. JavaScript/JSON
   - JavaScript Object Notation (JSON) is a standard text-based format for representing structured data based on JavaScript object syntax. It is commonly used for transmitting data in web applications. [6]

6. MYSQL
   - MySQL is the database management system used by WordPress to store and retrieve users' blog information. [7]

7. PHP
   - PHP is a general-purpose scripting language geared toward web development. [8]

Project Scope

Our main project idea is to provide a platform in which job recruiters can easily find suitable applicants and they can have faster communication when needed. Recruiters can also maintain updates of job details and vacancies so the seekers can easily upload their resumes with the required skills and abilities for their chosen jobs. This is to provide a more convenient job search and accurate and up-to-date information for the sake of the users.

Project deliverables:

- Provide a fully functioning job portal website that can,
    - Filter job applicants according to their skill set.
    - Maintain job seeker and employer records.
    - Alert or contact job seekers if job recruiters decided to choose for interviews.

Assumptions:

- Assume there are enough funds for the project.
- Assume job applicants will go to our website and upload their resumes.
- Assume job recruiters use our website to find suitable applicants.
- Assume the project will fully meet the business's needs.
- Assume this project will reach the global market

Risks and issues:

- Privacy issues.
- Lack to meet the job recruiter's requirements.
- Currently focused on the IT Industry only.
- All team members have only basic ideas about web and cloud development.

Project team

- Team Members

A.T.Satharasinghe	(AA1929)
M.K. Damindu Pahasara	(AA1680)
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S.A.N.S.Wijayananda	(AA1831)

- Team Skills

o Nipun - Dev, Java, HTML, CSS, Python, Designing, Documentation

o Bimsara - Python, C, Java, HTML, R, MATLAB, Designing, Documentation, CSS

o Damindu - UI UX, Data Analysis, R, Java, Flutter, Graphic Designing, Documentation

o Sithum - Python, HTML, CSS, Java, C, MATLAB, R, YAML
o Pavithra - HTML, MATLAB, C, Java, Documentation
o Nimaya - C, Python, HTML, Documentation
o Buwaneka - Java, HTML, CSS, Python, Designing, Presentation
o Avishka - Python, Java, C, HTML, CSS, Flask, Dev, Documentation, Designing, Presentation

o Amandi - C, Python, HTML, CSS, Java, Documentation, Presentation

o Pasindu - C, Python, HTML, CSS, Java, Documentation, Presentation

Time Schedule

Details	Timeline											
	October			November			December			January		
	01-10	11-21	22-31	01-10	11-21	22-30	01-10	11-21	22-31	01-10	11-21	22-31
Research	███	███	███	███								
Basic UI/UX Designing		███	███	███	███	███						
Web Development – Stage I				███	███	███						
Web Development – Stage II						███	███	███				
Web Development – Stage III								███	███	███		
Web Development – Stage IV									███	███	███	
Product Testing											███	
Project Handover												███

Budget Management

Tasks/Platform	Development time (hours)	Cost per hour	Web App Development Costs
UI Designing	25	Rs. 500 [9]	Rs. 12500.00
Server/System Administration	5	Rs. 5000.00	Rs. 1100.00
Web Development	100	Rs. 500.00 [10]	Rs. 50000.00
Backend development	10	Rs. 1500.00	Rs. 15000.00
Update/Changes/Maintenance	Depends on the usage of the application (Cost not included)		
Testing	10	Rs. 500.00	Rs. 5000.00
Total			**Rs. 196100.00**

Conclusion

The main goal of this proposed system is to highly digitize employment queries. So that job recruiters can easily find suitable applicants. This will let the employers/recruiters filter job seekers according to their requirements. Also, post an update about the available jobs and the qualification needed for them. And for job seekers to find the right and satisfactory job according to their qualifications So, it enables applicants to search for jobs conveniently and enables employers to find suitable candidates. In the current manual system, data is stored in the form of registers which may encounter problems in keeping it for a long time due to human errors. Viewing available jobs also require so much time and effort because job seekers will manually go and check for it at the agency. As a solution, this job-hunting web application is going to be developed.

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