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**SVKM’s NMIMS**

**Mukesh Patel School of Technology Management and Engineering**

**Department of Computer Engineering**

A REPORT ON

# “JOB HUNTER”

By

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**E030**

**B.Tech – E**

**June 2021**

A TECHNICAL INTERNSHIP REPORT ON

# “JOB HUNTER”

By Nishee Shelat

A Report submitted in partial fulfilment of the requirements of 4 year B.Tech (Computer Engineering) Program of Mukesh Patel School of Technology, Management and Engineering, NMIMS

Under the Supervision of:

College Mentor

Hiral Modi

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**Mukesh Patel School of Technology Management & Engineering Vile Parle (W), Mumbai - 400 056.**

**TECHNICAL INTERNSHIP REPORT**

**Semester VII – B.Tech**

**Submitted in Partial Fulfillment of the requirements for Technical Project/Training for VII Semester B.Tech**

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**Roll No. & Batch: E030 & B.Tech Computer Science)**

**Academic Year: 2020-2021**

**Name of the Discipline: B.Tech (Computer Engineering)**

**Name and Address of the Company:**

**Training Period: From 5th May, 2021 To 30th June, 2021**

**THIS IS TO CERTIFY THAT**

**Mr. / Ms. Nishee Shelat**

**Exam Seat No. 70021018097 has satisfactorily completed his/her Training/Project Work, submitted the training report and appeared for the Presentation & Viva as required.**

**External Examiner Internal Examiner Head of Dept. Chairperson/Dean Date:**

**Place:**

**Seal of the University**

**Acknowledgements**

The training project period has been a technically enlightening experience. The process has made me realize the true potentials of my abilities. The opportunity helped me to greatly expand my knowledge base and gain insights about working in the Web Development domain. It has helped me understand and percept this specific domain and it’s vastness of knowledge and its impact.

I would like to thank my Faculty Supervisor, **Ms. Hiral Modi,** for her constant guidance and support in every step of the way. Her optimistic approach and willingness in solving doubts and queries helped me throughout the training project period. I would also like to acknowledge and express my gratitude towards all the staff and professors of **NMIMS’ MPSTME** for giving us, students, this opportunity.

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**ABSTRACT**

In this day and age, it has not only become prominent for businesses, irrespective of small-scale or big-scale, to have a website to be heard on the digital platform but also scout for talent on the same platform: Internet. A webpage is one such procedure through which an affiliation can get obvious to its planned vested party through savvy advancing and having its own web organizations.

Job Hunter is a talent scouting plus job targeting website. The purpose of this website is to act as a middle ground that has been assisting employer's and future employee's meet one another. This website will act as a bridge and connect the two parties that need each other through a convenient and user-friendly environment.

The project aims at creating a platform that will not only help a candidate look for a job that meets his/her qualification but will also help an employer search for the type of employee he/she wants based on their job requirements and job descriptions. This is possible by the various features that the site has to offer that can make the resume as well as the job details as customizable as possible. The site is made as convenient as possible keeping in mind the diverse audience it caters to.

**INTRODUCTION**

* **Purpose:**

**Job hunting**, **job seeking**, or **job searching** is the act of looking for employment, due to unemployment, underemployment, discontent with a current position, or a desire for a better position. A study by Microsoft suggests that job seekers need to begin to pay more attention to what employers and recruiters want in their pre-interview information gathering process and be able to deliver those aspects which essentially are different from their qualifications on résumé, and specific to the built organizational culture for their strategic outcomes. Job hunting can feel like an epic journey with dozens of twists and turns that keep you awake at night. Job hunting involves more than searching for open positions and sending your resume to employers.

It’s also important to recognize that the job market has changed. Decades ago, employers would hire candidates with the intention of employing them for life. They viewed those hires as long-term investments. That meant that they could take a chance on a new hire, train that person, and get a return on their investment over time.

These days, that dynamic has changed dramatically. Most employees move from job to job throughout their careers. Companies are no longer as loyal to their employees as they once were. Because of that changed relationship, employers need to get an immediate return from their hiring investment.

The purpose of this website is to create a user friendly, convenient platform to fulfill the needs of employers as well as employees in a secure manner.

* **Scope:**

The scope of the project, Job Hunter, is to create a centralized digital platform that caters to the needs and utilities of everything surrounding the domain of job searching and employment posting. This project would assist in helping the companies scout for specific talents in their field of domain and would also help a candidate analyze his/her job options in a particular domain on the basis of the data provided by our website on company/work requirements. Having a website for this task makes the process easy and reliable for both the parties involved and creates a mutually trusted environment for the same.

* **Technologies:**

* **Software’s Used:**

1. WinSCP: WinSCP is an open source free [SFTP client](https://winscp.net/eng/docs/free_sftp_client_for_windows), [FTP client](https://winscp.net/eng/docs/free_ftp_client_for_windows), [WebDAV](https://winscp.net/eng/docs/webdav) client, [S3](https://winscp.net/eng/docs/s3) client and [SCP](https://winscp.net/eng/docs/scp) client for Windows. Its main function is file transfer between a local and a remote computer. Beyond this, WinSCP offers scripting and basic file manager functionality.

* **Programing Languages Used:**

1. HTML : The Hyper Text Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.
2. CSS : Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file which reduces complexity and repetition in the structural content as well as enabling the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.
3. JavaScript : Alongside HTML and CSS, JavaScript is one of the core technologies of the World Wide Web.Over 97% of websites use it client-side for web page behavior, often incorporating third-party libraries.All major web browsers have a dedicated JavaScript engine to execute the code on the user's device. As a multi-paradigm language, JavaScript supports event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).
4. PHP : PHP is a general-purpose scripting language especially suited to web development. PHP originally stood for *Personal Home Page*, but it now stands for the recursive initialism *PHP: Hypertext Preprocessor*. PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code – which may be any type of data, such as generated HTML or binary image data – would form the whole or part of an HTTP response.

* **Platform’s Used:**

1. Brackets : Brackets is an open-source project, supported by an active and passionate community. With focused visual tools and preprocessor support, Brackets is a modern text editor that makes it easy to design in the browser. It's crafted from the ground up for web designers and front-end developers. Brackets is a lightweight, yet powerful, modern text editor. It blends visual tools into the editor, so you get the right amount of help when you want it without getting in the way of your creative process.
2. phpMyAdmin : phpMyAdmin is a free and open source administration tool for MySQL and MariaDB. As a portable web application written primarily in PHP, it has become one of the most popular MySQL administration tools, especially for web hosting services.

* **Testing Platforms**:

**Table 1: List of testing platforms**

|  |
| --- |
| **Browser Name** |
| Google Chrome |
| Microsoft Edge |

* **Domain:**

ProFreeHost is a web hosting service which is aimed at providing servers and tools to its members for both commercial and personal use.

* **Application Specifications/Requirements:**

**Table 2: List of Application Requirements**

|  |  |
| --- | --- |
| Chrome Version | 91.0.4472.114 (Official Build) (64-bit) |
| Edge Version | 91.0.864.59 (Official build) (64-bit) |
| Permission | Internet |

* **Technique:**

**Ajax** is a set of web development techniques using many web technologies on the client-side to create asynchronous web applications. With Ajax, web applications can send and retrieve data from a server asynchronously (in the background) without interfering with the display and behavior of the existing page. By decoupling the data interchange layer from the presentation layer, Ajax allows web pages and, by extension, web applications, to change content dynamically without the need to reload the entire page. Ajax is not a single technology, but rather a group of technologies. HTML and CSS can be used in combination to mark up and style information. The webpage can then be modified by JavaScript to dynamically display—and allow the user to interact with—the new information.

**PROJECT LAYOUT**

**Figure 1: Layout of Project** Diagram

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**UML DIAGRAM**

* Use Case Diagram:

Diagram, funnel chart

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**Figure 2: Use Case Diagram**

* **Actors:**

1. *Employee*: Any candidate who wishes to look for jobs / internships in their field of interest.
2. *Employer*: Any company / organization who wishes to scout and secure talents in particular domain adhering to their company requirements.

* **Use Cases:**

1. *Login*: The use case is defined for all the actors in the system. It allows the users to access their accounts with the help of their email and password.
2. *Register*: Every user, irrespective of whether it is a employer/employee, will have to register and create an account to access the resources, functionalities and data provided by the website.
3. *Remember Me*: This use case helps in remembering the user for 48 hours after the initial login of the user, i.e., the user will be able to access his account even without logging in or even after closing the browser window.
4. *Forgot Password*: This use case helps in case the user forgets his/her account password. In such case, it will send an email to the particular user which will contain a unique link for that user which will allow the user to reset the password and help in activating his/her account again.
5. *Build A Resume*: This use case helps the potential employee build a resume by filling the details listed in the form provided by the website after deliberate research on what the employers/companies look the most when searching for candidates.
6. *Edit Resume*: Any employee that has made a resume will have the option to edit certain fields in their resume.
7. *Add Job*: This use case will help a company/organization in posting job requirements for potential candidates to apply to.
8. *Delete Job*: This use case will help a company/organization in deleting the jobs they have posted according to their requirement.
9. *View Jobs*: This use case will help both the employee and employer in viewing all the jobs that are posted on the website by different companies.
10. *Apply to Jobs:* This use case is used by the potential employers to apply to various jobs that fit their qualification criteria.
11. *View Applied Jobs:* This use case helps the employee user to keep track of all the jobs they have applied to.
12. *View Applicants:* This use case helps the company / organization keep track of various applicants that have applied to their different job positions.
13. *Accept/Reject Applicants:* This functionality helps the employer user to accept or reject applicants that have applied to specific jobs on their profile.
14. *See Job Application Status:* This will help the employee user in checking the status of the jobs that they have applied to. The status will either be pending, rejected or accepted based on the status allotted by the particular company.
15. *Logout:* This use case helps in logging out all the users on the website.

* **Description:**

1. The website starts with asking the user to sign up using their email id and password.
2. Once the user logs into his/her account a connection is made to the user login database to validate the credentials.
3. If the validation is unsuccessful, an appropriate error message is displayed to the user and the login screen is displayed again.
4. If the validation is successful, the user will be able to access his/her account.
5. The employee user will be able to surf through different job options and apply to various jobs that fit his/her criteria.
6. Similarly, the employer user will be able to post jobs of various positions at his company and even delete them later once the availability is met.
7. The employee user can view the status of his/her applicants after having applied to certain jobs.
8. The employer user will also be able to see the various applicants that have applied to the specific jobs and their resume’s.

**IMPLEMENTATION:**

Timeline

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**Figure 3: Homepage**

Graphical user interface, text, application, email

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**Figure 4: Register**

Graphical user interface, text, application, email

Description automatically generated

**Figure 5: Sign in**

Graphical user interface, text, application, email

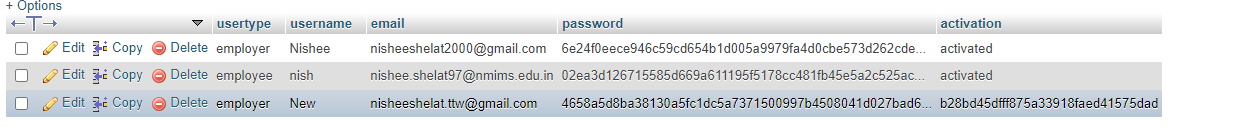
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**Figure 6: Successful Registration**

Graphical user interface, text, application, email

Description automatically generated

**Figure 7: Confirmation Email**



**Figure 8: Database before activating account**

Icon

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**Figure 9: Activation Link in Email**

Graphical user interface, application

Description automatically generated

**Figure 10: Database after activating account**

Graphical user interface, text, application, email

Description automatically generated

**Figure 11: Unsuccessful Registration**

Graphical user interface, text, application, email

Description automatically generated

**Figure 12: Unsuccessful Registration 2**

Graphical user interface, text, application

Description automatically generated

**Figure 13: Unsuccessful Sign In**

Graphical user interface

Description automatically generated with medium confidence

**Figure 14: Remember me Database**

Graphical user interface, text, application

Description automatically generated

**Figure 15: Forgot Password**

Graphical user interface, text, application, email

Description automatically generated

**Figure 16: Forgot Password Email**

Graphical user interface, text, application

Description automatically generated

**Figure 17: Forgot Password Database before Resetting Password**

Graphical user interface, text, application, email

Description automatically generated

**Figure 18: Reset Password**

Graphical user interface, text, application, email

Description automatically generated

**Figure 19: Forgot Password Database after Resetting Password**

* **Process:**
* For successful registration, the user has to enter a valid email id that is currently not in the database and the confirm password field should match with the initial password entered.
* After successful registration, an email is sent to the same address inputted by the user.
* There is an activation link in the mail which will help user activate his/her account and later on the user can login to his account whenever he/she wants with his login credentials.
* In case of unsuccessful registration, the reason/warning behind them will be displayed using AJAX.
* Similarly, for unsuccessful sign up, the reason behind it will be displayed on the screen.
* If the user clicks on remember me while signing up, the browser will remember the user for 48 hours, which means the user will not have to login for the next 48 hours to access his account, instead he can directly access it.
* In case of forgot password, an email will be sent to the user to change its password and to confirm his new password.
* After the changes are made in the link, they will be reflected in the database.

Graphical user interface, website

Description automatically generated

**Figure 20: Navbar of Employee User**

Graphical user interface, application

Description automatically generated

**Figure 21: Resume Details of employee**

Table

Description automatically generated

**Figure 22: Resume of employee**

Graphical user interface, text

Description automatically generated

**Figure 23: Jobs seen by employee**

Graphical user interface, text, application

Description automatically generated

**Figure 24: Jobs applied by employee**

Graphical user interface, text, application, email

Description automatically generated

**Figure 25: Users Database**

Graphical user interface, application

Description automatically generated

**Figure 26: Employee Database**

* **Process:**
* After successful sign in as an employee user, the employee will be able to see a new navbar with the rest of the homepage remaining same, along with the user name in the right side of navbar.
* The user will be able to form a resume, if he already has not, by filling the details/fields mentioned by the website and following the restrictions.
* If the user has already filled his/her resume, they will be able to directly see their respective resume and edit it in case there are any changes.
* In the Jobs section, the user will be able to see all the jobs that are currently posted by various companies and will be able to apply to them.
* In the applied jobs option, the user will be able to see the jobs that they have applied to, and the status of their application given by the respective employers.

Graphical user interface, website

Description automatically generated

**Figure 27: Navbar of Employer User**

Graphical user interface

Description automatically generated

**Figure 28: Job Details**

Graphical user interface, text, application

Description automatically generated

**Figure 29: Job Posted by the user**

A screenshot of a computer

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**Figure 30: Job Database**

Table

Description automatically generated

**Figure 31: Applicants**

Graphical user interface, application

Description automatically generated

**Figure 32: Applicant View**

Graphical user interface, text, application

Description automatically generated

**Figure 33: Apply Database**

* **Process:**
* After successful sign in as an employer user, the employer will be able to see a new navbar with the rest of the homepage remaining same, along with the user name in the right side of navbar.
* The employer will be able to post jobs by filling in the details required by the website, that are mentioned on the page.
* Once the details are posted, the employer will be able to see the jobs on the see posted jobs tab.
* There the user will be able to see the respective applicants list that have applied for that specific job.
* The employer can reject or accept the candidate after viewing their resume through the view button.
* By default, the value of the status is pending, in case the employer needs more time to consider a candidate.

**CONCLUSION**

* **Project Outcome:**

The purpose of this project is to create a space where job seekers in diverse fields can look for their desired jobs and internships and also a space where employers can look for perfect candidates that meet their standards and needs for the organization. This website is clear and succinct, permitting the intended interest group to comprehend the message distinctly. Additionally, adequate data is given on the site so that their inquiries can be replied with negligible efforts.

The goal while creating this website, was to create a bridge between the two parties, employees and employers, and to shorten the distance between them.

This site acts as a place of mutual trust between the two parties where they can freely look for their interests without having to worry about any malpractices.

* **Challenges & Solutions:**

This web page actively deals with the database for most of its functionalities.

This meant to change any field or for a functionality to complete its task the page would have to reload multiple times to get the desired outcome. The solution was to use the Ajax technique. Ajax, Asynchronous JavaScript and XML, is basically a web development technique that works on the client side to create asynchronous web applications. This helps limit the times a web page has to reload for unnecessary reasons.

* **Future Scope:**

The current version of the web site only focuses on the basic functionalities and processes that cover all the necessary requirements of the main purpose of the webpage. Such as, viewing jobs, applying to jobs, keeping track of applicants for specific jobs, keeping track of status to the jobs applied, etc. The future scope of this web site includes creating advance functionalities for the same task and processes, and also to have a commercial value for the website. This is possible by adding different plans such as : basic, premium, silver and gold; based on the number of jobs a user can apply to and a number of jobs a user can post in their company name. Another functionality could be creating a space where both the parties can interact with one another in case of a misunderstanding or in case of any queries on either part.

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