

SIMPLY HIRED – A WEB APP TO APPLY AND TRACK JOBS!

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ABSTRACT

Simply Hired is your all-in-one solution for seamless job tracking and application management. In today's dynamic job market, finding the right opportunities can be a challenging journey. Whether you're a seasoned professional or just starting your career, our web app, developed using the powerful MERN Stack (MongoDB, Express.js, React.js, and Node.js), is designed to simplify and enhance your job search experience. Simply Hired is more than just a job-tracking tool. It's your personalized job-hunting companion. With its intuitive interface and robust features, Simply Hired empowers you to organize, monitor, and streamline your job applications effortlessly. Our commitment is to provide you with a comprehensive job search and application management tool that simplifies the complexities of the job market. Whether you're a recent graduate entering the workforce or a seasoned professional seeking new challenges, Simply Hired is here to support you at every step of your career journey. This integration saves users time and effort by eliminating the need to browse multiple websites. In addition, Simply Hired uses advanced search engines to provide personalized job recommendations based on users' interests, skills, and experience, ensuring people are given the time that suits their profile. One of the key features that makes Simply Hired unique is its intuitive and user-friendly design to enhance the overall user experience. The app features a beautiful, modern design combined with easy-to-understand navigation, making it easy for users to search for jobs, filter search results, and submit applications in just a few clicks.

Keywords:- Interview, job application, job tracking, job searching, web app, job search application, tracking application, automatic tracking system, job application portal, job search track and apply, jobs system.

1. INTRODUCTION

In today's business world, the process of finding a job can often be difficult and time-consuming. With countless job boards, company websites, and recruiting platforms available, tracking applications and managing the entire job search process can become a daunting task. But with the advancement of technology and the rise of web applications, a new challenge arises in optimizing and simplifying the application process. Simply Hired is a web application replacement designed to revolutionize the job market. The way people apply for jobs and manage their job search. By combining the latest technology with a user-friendly interface, Simply Hired aims to provide job seekers with an effective platform to help them find, apply and track jobs.

Simply Hired's primary service is to serve as a resource for job seekers, collecting job listings from a variety of sources including company websites, job boards employment and recruiting agencies. This integration saves users time and effort by eliminating the need to browse multiple websites. In addition, Simply Hired uses advanced search engines to provide personalized job recommendations based on users' interests, skills, and experience, ensuring people are given the time that suits their profile.

One of the key features that makes Simply Hired unique is its intuitive and user-friendly design to enhance the overall user experience. The app features a beautiful, modern design combined with easy-to-understand navigation, making it easy for users to search for jobs, filter search results, and submit applications in just a few clicks.

1.1 MOTIVATION AND SCOPE OF THE STUDY

Whether you're looking for full-time work, part-time work, contract work, or remote work opportunities, Simply Hired has you covered. Additionally, Simply Hired uses advanced algorithms and machine learning to provide users with personalized job recommendations based on their skills, experience, and interests. By analyzing user behavior and market conditions, Simply Hired intelligently recommends suitable job listings for each user, increasing the chances of finding the best job. Applying for jobs can often be difficult and time consuming; It requires applicants to access multiple websites, fill out lengthy application forms, and submit resumes. However, Simply Hired aims to simplify this process by providing seamless integration with ATS and employee portals.

Thanks to these integrations, users can apply for jobs directly through Easy Jobs. With just a few clicks, there is no need to visit external websites or re-enter information many times. Simply Hired's one-click application feature allows users to easily send resumes and cover letters to employers, saving time and reducing friction in the application process. Additionally, Simply Hired provides users with tools and resources to improve their application skills and stand out to employers. The platform provides resume and development services to help users create beautiful, professional resumes that reflect their skills and experience. Additionally, Simply Hired allows users to present themselves to potential employers by providing guidance on how to write an effective cover letter and prepare for an interview.

2. TECHNOLOGIES USED:

2.1 FRONTEND TECHNOLOGIES:

- **HTML/CSS:** These fundamental web technologies are the building blocks of the platform's user interface. HTML (Hypertext Markup Language) provides the structure and content of web pages, while CSS (Cascading Style Sheets) is responsible for the visual design and layout.
- **JavaScript** adds interactivity and dynamic functionality to the platform. It enables features like real-time interactions, data validation, and user-friendly interfaces. JavaScript is crucial for creating an engaging user experience.
- **ReactJS** facilitates the creation of dynamic, single-page applications (SPAs) with its powerful data binding and templating capabilities. It enables the seamless integration of HTML templates and JavaScript code, simplifying the development process and enhancing code maintainability.

2.2 BACKEND TECHNOLOGIES:

- **NodeJS** offers concurrency support, enabling Simplyhired to handle multiple user requests simultaneously without compromising performance. Its simplicity and readability facilitate rapid development and maintenance of backend code, ensuring the platform's reliability and stability.
- **MongoDB:** MongoDB is a NoSQL database that stores the resources shared by students. Its document-oriented structure allows for flexible and scalable data storage. MongoDB is particularly suitable for applications where data needs to be organized in a semi-structured or unstructured format.

3. OBJECTIVES AND METHODOLOGY

3.1 OBJECTIVE

The objective of the Simply Hired project is to develop a user-centric web application that revolutionizes the way individuals search for, apply to, and track job opportunities. In a world characterized by rapid technological advancement and an increasingly competitive job market, the need for a streamlined, efficient, and user-friendly job search platform has never been more pressing. Simply Hired aims to address this need by offering a comprehensive solution that empowers job seekers to take control of their job search journey and achieve their career goals

effectively. The primary objective of Simply Hired is to aggregate job listings from a wide range of sources, including company websites, job boards, and recruitment agencies, into a centralized platform. By consolidating job listings from various sources, Simply Hired aims to provide users with access to a diverse array of job opportunities spanning different industries, roles, and locations.

This aggregation feature eliminates the need for users to navigate multiple websites and platforms, saving them valuable time and effort in their job search. Centralization and aggregation of job listings within Simply Hired represent a pivotal objective aimed at simplifying the job search process for users. By consolidating job postings from various sources, including company websites, job boards, and recruitment agencies, Simply Hired provides a one-stop destination for individuals seeking employment opportunities. This centralization eliminates the need for users to navigate multiple platforms, saving them valuable time and effort. Additionally, by aggregating job listings, Simply Hired ensures that users have access to a diverse array of opportunities spanning different industries, roles, and locations. This approach enhances the user experience by presenting a comprehensive selection of jobs tailored to individual preferences and qualifications. Ultimately, centralization and aggregation empower users to streamline their job search, enabling them to explore a wide range of opportunities efficiently and effectively within a single platform.

Simply Hired seeks to leverage advanced algorithms and machine learning techniques to deliver personalized job recommendations to users based on their skills, experience, and preferences. By analyzing user behavior and job market trends, Simply Hired aims to intelligently suggest relevant job listings tailored to each individual user, thereby increasing the likelihood of finding the perfect job match. The objective is to enhance the user experience by presenting users with job opportunities that align with their career aspirations and goals. Personalized job recommendations are a core feature of Simply Hired, designed to tailor the job search experience to each user's unique preferences and qualifications. Leveraging advanced algorithms and machine learning techniques, Simply Hired analyzes user behavior, skills, and experience to intelligently suggest relevant job listings. By understanding the individual's career goals and aspirations, Simply Hired presents curated job recommendations that align with their professional interests and objectives. This personalized approach not only saves users time by presenting them with opportunities that are likely to be a good fit but also increases the likelihood of finding the perfect job match. Additionally, as users interact with the platform and provide feedback on job listings, Simply Hired continuously refines its recommendations, ensuring that they remain relevant and tailored to the user's evolving needs. Ultimately, personalized job recommendations empower users to discover new opportunities that align with their career goals, enhancing the efficiency and effectiveness of their job search experience.

Another key objective of Simply Hired is to simplify the job application process for users. The platform aims to streamline the application process by offering seamless integration with leading applicant tracking systems (ATS) and company career portals. Through these integrations, users can apply for jobs directly through the Simply Hired platform with just a few clicks, eliminating the need to visit external websites or re-enter information multiple times. The objective is to reduce friction in the application process and make it as effortless and efficient as possible for users. The Simplified Application Process feature of Simply Hired is engineered to streamline the often cumbersome and time-consuming task of applying for jobs. By seamlessly integrating with leading applicant tracking systems (ATS) and company career portals, Simply Hired enables users to apply for jobs directly through the platform with remarkable ease. This integration eliminates the need for users to navigate multiple websites or fill out lengthy application forms repeatedly. With just a few clicks, users can submit their resumes and cover letters to prospective employers, significantly reducing friction in the application process. Moreover, Simply Hired offers additional tools and resources to enhance users' applications and increase their chances of success. From resume-building and optimization services to guidance on crafting compelling cover letters, Simply Hired equips users with the necessary tools to present themselves effectively to employers. Overall, the Simplified Application Process feature of Simply Hired empowers users to apply for jobs more efficiently and effortlessly, freeing up valuable time and energy to focus on other aspects of their job search journey.

3.2) METHODOLOGY

Simply Hired aims to provide users with robust tracking and management tools to keep track of their job applications and monitor their progress. The platform offers a centralized dashboard where users can view all their active applications, monitor the status of each application, and track any communication with employers. Additionally, Simply Hired provides users with the ability to set reminders and notifications for follow-ups, interviews, and other important milestones in the application process. The objective is to help users stay organized and proactive throughout their job search journey, ensuring that no opportunity falls through the cracks. The Tracking and Management of Applications feature within Simply Hired is designed to empower users to stay organized and informed throughout their job search journey. Through a centralized dashboard, users can conveniently monitor the status of their job applications and track any communication with employers. This streamlined approach ensures that users can efficiently manage their application pipeline without the need for spreadsheets or manual tracking methods. Moreover, Simply Hired provides users with the ability to set reminders and notifications for follow-ups, interviews, and other important milestones in the application process.

By keeping users informed and proactive, this feature helps prevent missed opportunities and ensures that users can stay on top of their job search efforts. Furthermore, Simply Hired offers insights and analytics on job search activity, providing users with valuable feedback on their application performance and overall job search strategy. This data-driven approach enables users to identify strengths and areas for improvement, allowing them to refine their approach and optimize their job search efforts for success. Overall, the Tracking and Management of Applications feature within Simply Hired empowers users to take control of their job search process, ensuring a more organized, efficient, and successful job search experience. Simply Hired is committed to ensuring that its platform is accessible to users of all backgrounds and abilities. The platform adheres to web accessibility standards and guidelines, making it usable for individuals with disabilities, including those using assistive technologies such as screen readers or voice recognition software. Additionally, Simply Hired offers multilingual support, allowing users to access the platform in their preferred language.

The objective is to enhance accessibility for non-English speakers and expand the platform's reach to a global audience, catering to users from diverse cultural and linguistic backgrounds. The Accessibility and Inclusivity feature of Simply Hired underscores its commitment to ensuring that its platform is accessible to users of all backgrounds and abilities. Simply Hired adheres to web accessibility standards and guidelines, making it usable for individuals with disabilities, including those utilizing assistive technologies like screen readers or voice recognition software. Additionally, Simply Hired offers multilingual support, enabling users to access the platform in their preferred language. This inclusive approach not only enhances accessibility for non-English speakers but also fosters a sense of belonging for users from diverse cultural and linguistic backgrounds. By prioritizing accessibility and inclusivity, Simply Hired aims to break down barriers and create equal opportunities for all users to engage in the job search process. Whether it's ensuring that individuals with disabilities can navigate the platform seamlessly or providing support for non-English speakers to access job listings in their native language, Simply Hired is dedicated to fostering a more inclusive and diverse job search ecosystem.

3.2.1 Analysis of Requirements: To acquire requirements and comprehend user demands, conduct in-depth stakeholder interviews and user surveys. Determine the features, functionalities, and technological specifications that are critical to the platform's success.

3.2.2 Choosing Technology: Examine several frameworks and technologies that are appropriate for backend and frontend development. For frontend development, ReactJS is a great choice because of its powerful capabilities, flexible architecture, and large community support. For backend programming, choose NodeJS to take advantage of its scalability, efficiency, and support for concurrency.

3.2.3 System Architecture: Create the system architecture, taking into account the APIs, frontend elements, backend services, and database schema. To see the user interface and experience, create wireframes and prototypes. Establish the relationships, data models, and APIs needed for frontend and backend components to work together seamlessly.

3.2.4 Creating UI Elements: Utilizing ReactJS, HTML, and CSS, create aesthetically pleasing and easily navigable user interface (UI) elements. Make user experience (UX) a top priority to guarantee accessibility and simplicity of use for all people. Divide the front end into logical sections, like the resource library, landing page, user dashboard, and profile settings. Every page should have a unique function and meet the needs of a certain user group.

3.2.5 Configuring the Server: Build the server-side infrastructure and logic using NodeJS. Use Node's concurrency and efficiency features to create a high-performance backend that can process data and handle concurrent user queries. To enable dynamic content rendering on the frontend, integrate ReactJS directives and components. To ensure real-time updates and responsiveness, synchronize user inputs with backend data using two-way data binding. To store and retrieve user data, interview transcripts, and other platform resources, connect to MongoDB. To guarantee consistency and integrity in data storage, put data models and schemas into practice.

3.2.6 Enabling User Authentication: Use OAuth or JSON Web Tokens (JWT) to implement user authorization and authentication processes. Password hashing and encryption standards should be enforced to guarantee safe access control and user privacy.

3.2.7 Testing and Debugging: To find and fix any flaws, errors, or inconsistencies, thoroughly test both frontend and backend components. Use Node's built-in testing tools for backend testing. Create a plan for implementing the platform on cloud infrastructure providers including Microsoft Azure, Google Cloud Platform, and Amazon Web Services. Scalability, dependability, and cost-effectiveness should all be considered during the deployment process.

3.3 ADVANTAGES OF TECH STACK:

3.3.1 React:

- **Rich User Interface:** To create dynamic and interactive user interfaces, React offers a wide range of capabilities and tools. Because of its component-based architecture, reusable user interface (UI) components may be created, providing a unified and aesthetically pleasing user experience.
- **Two-Way Data Binding:** This React feature reduces the need for manual DOM manipulation by making it easier to synchronize data between the model and the view. As a result, the code is easier to read and maintain.
- **Modular Development:** By dividing large-scale apps into smaller, more manageable modules, React's modular architecture makes it easier to construct large-scale applications. This encourages testability, maintainability, and reusability of programs.
- **Dependency Injection:** The dependency injection mechanism incorporated into React encourages loose coupling between components, which facilitates dependency management and improves the scalability and flexibility of code.
- **Cross-Platform Compatibility:** React facilitates cross-platform development, enabling programmers to create desktop, mobile, and online apps all from the same codebase. This allows for quicker development cycles and increased compatibility with various platforms and devices.

3.3.1 NodeJS:

- **Support for Concurrency:** Node's async architecture make it easier to program concurrently, which improves application speed and makes effective use of system resources. Because of this, NodeJS is a great tool for developing concurrent, highly scalable applications like microservices and web servers.
- **Performance:** Node is well-known for its low memory footprint and high-performance execution, which makes it perfect for creating high-performance online apps that can manage huge traffic levels while using few resources.

- **Simplicity and Readability:** Node's simple, minimalistic syntax encourages readability and maintainability of code, which facilitates developer collaboration on projects and mutual code comprehension.
- **Standard Library:** For typical tasks like HTTP handling, JSON parsing, and encryption, Node's standard library offers a wide range of packages and functions. This streamlines the development process and lessens the requirement for third-party dependencies.
- **Scalability:** Node is well-suited for developing scalable and resilient web applications that can withstand rapid growth and traffic variations due to its built-in support for concurrency and its ability to manage thousands of concurrent connections efficiently.

3.3.2 MongoDB:

- **Schema Flexibility:** Developers can store data in a schema-less fashion using MongoDB's flexible document-based data architecture, which makes it simple to adapt to changing requirements and data structures without requiring laborious schema migrations.
- **High Availability and Scalability:** MongoDB's sharding feature enables horizontal scalability, enabling developers to split up data over several servers in order to manage massive data and traffic volumes. Furthermore, MongoDB's inherent replication capabilities guarantee fault tolerance and high availability, reducing downtime and data loss.
- **Performance:** Quick response times and enhanced application performance are achieved by efficient data retrieval and processing made possible by MongoDB's inherent support for indexing, aggregation pipelines, and query optimization.
- **JSON-like Documents:** MongoDB uses JSON-like documents to store data, which is more in line with current web development standards and makes data processing and client-side integration easier.
- **Community and Ecosystem:** Developers building MongoDB-powered apps can get help from a thriving community and ecosystem that includes a wealth of documentation, tutorials, and third-party libraries. This vibrant ecosystem shortens project time-to-market and speeds up development.

3.4 DEVELOPMENT WORKFLOW

- **Reusable Component Templates:** Create modules or templates for reusable components that may be used to various Simply hired platform areas. With standardised elements like navigation bars, headers, and footers, this method reduces code duplication and speeds up development.
- **Secure Development Environment:** Use environment variables kept in a configuration file, such as a .env file, to maintain a secure development environment. By doing this, private data like as database login passwords and API keys are protected and kept out of the public source.
- **MongoDB Database Integration:** Use MongoDB as your platform data storage and retrieval database solution. Because of its scalability and versatility, MongoDB is a great option for web applications such as Simply hired. For testing and development, think about using a MongoDB sandbox cluster to replicate real-world database activities in a safe setting.
- **Dotenv Package Usage:** To control environment-specific configuration parameters, use the dotenv package in the NodeJS application. This facilitates the management and access of configuration parameters across various deployment contexts by streamlining the processing of environmental variables.

- **MongoDB Compass Integration:** To simplify database administration and data processing operations, take into consideration leveraging MongoDB Compass, a graphical user interface (GUI) for MongoDB. MongoDB Compass facilitates database-related tasks during application by offering an easy-to-use interface for working with MongoDB data.

3.5 MVC SOFTWARE DESIGN

- **Route Separation:** Implement routing for several application routes in distinct files using the route separation technique. By combining relevant routes, this technique improves the organization and maintainability of the code. For user-related routes, message routes, and other types of routes, make distinct route files.
- **Controller-Model Organization:** Code should be organized into controllers and models depending on functionality using the controller-model approach. For instance, make a models.js file inside models directory to specify the structure and methods for user data and experience data and a controller.js file inside controllers directory to handle user-related operations. This division improves the readability and modularity of the code.
- **Data Validation:** Before storing data to the database, do data validation and attribute checks. Validate user inputs and make sure that data complies with strict requirements in order to protect data security and integrity.
- **Password Hashing:** Use tools like md5 and bcrypt to implement password hashing for increased security. User credentials are saved safely in the database thanks to hashing, shielding them from unauthorized access in the event of a breach.

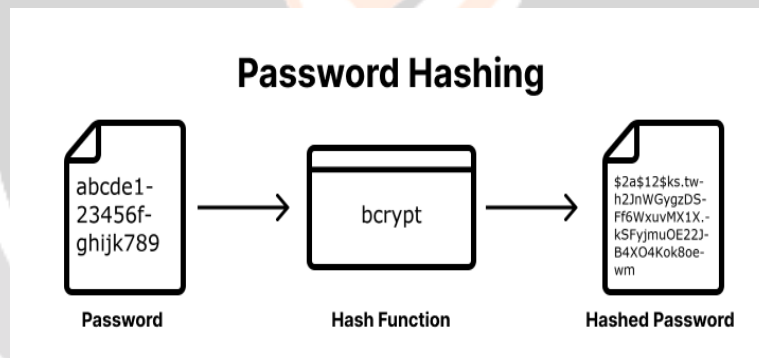


FIG -3 : Bcrypt Encryption

3.6 WEBSITE FEATURES AND FUNCTIONALITY

- **Session Management:** Implement session management to keep user authentication and session persistence in place. To manage user sessions securely, employ tools like cookies and Express.js sessions. This makes for a seamless and authenticated user experience and enables users to stay logged in across many queries.
- **User Post Functionality:** Develop controller functions for altering and preserving user experiences. Create tools that let users compose, modify, and oversee their interview insights. Make sure these actions have user-friendly interfaces.
- **CRUD Operations:** Use Mongoose and MongoDB Atlas for database interactions to implement CRUD (Create, Read, Update, Delete) activities. Creating, reading, updating, and removing data in the database are all included in this. Make sure that these procedures are effective, secure, and well-documented.

- **Route Protection:** To improve security, make sure that the route is properly protected. Implement authentication and permission procedures to limit access to specific functionality and routes. Safeguard private information and operations from unauthorized users.
- **Admin Panel:** Suppose there is a new company for which the interview experience and resources is to be shared, all the details regarding that new company and entered and saved to the catalog of available companies via the admin dashboard. The admin page acts as the web application's control panel, providing administrators with strong tools and knowledge to effectively manage the platform. New company can be added in the catalog via the admin page. Administrators have access to this specific part, which gives them control over user accounts, the ability to review and control material, and vital metrics. In order to maintain a healthy and vibrant online community, administrators can carry out tasks including user management, content moderation, and real-time monitoring. Advanced features like analytics dashboards, system setup choices, and user activity tracking are also frequently included on the admin page. It is essential to maintaining the platform's security and seamless functioning since it enables administrators to take proactive measures to resolve problems and make informed decisions.

4. RESULT AND DISCUSSION

4.1 RESULTS

As the job market and technology continue to evolve, the Simply Hired web application may consider some future suggestions and additional development resources to improve its functionality, usability, and performance. These recommendations cover a number of areas, including improving user experience, technological advancements, expansion and strategic partnerships. Following the best recommendations using machine learning algorithms can improve the identity of the user's recommendations. By analyzing the user's behavior, preferences and historical data, the recommendation system can provide effective recommendations based on each user's unique profile and preferences. Additionally, recommendations can be further enhanced by combining background information such as location, job trends, and performance goals to provide individuals with multiple goals and useful tasks. Integrated development with most popular social networks (such as LinkedIn). Networking and communication capabilities on the Simply Hired platform. This integration allows users to submit their professional letters, contacts, and recommendations via LinkedIn, providing employees with more information about their qualifications and skills. It also facilitates communication connections, allowing users to strengthen their existing connections and expand their expertise on the platform. Providing applications with real-time monitoring and analysis provides users with a deeper understanding of the performance and performance of application operations.

4.2 DISCUSSION

By tracking metrics such as application responses, interview conversion rates, and job acceptance, users can receive suggestions and advice to better improve their job search strategies. Additionally, providing instant updates on application changes and employer interactions increases transparency and engagement, allowing users to be informed and involved in the hiring process. By partnering with online learning platforms like Coursera and Udemy, LinkedIn Learning allows users to access relevant courses, certifications, and professional development directly from a "Hires only" platform. Integration with these platforms allows users to define skills, access relevant courses and enhance their qualifications to meet job requirements. Additionally, it can help employers make more informed hiring decisions by providing them with more information about a candidate's skills and qualifications. As remote work and the gig economy continue to evolve, expanding the platform's focus to include remote work opportunities and freelancers can keep up with changes in the trades and interests of today's workers. By offering a dedicated service to remote working and the gig economy, users can easily search and apply for flexible remote working hours, ensuring quality work – a balanced and flexible life. Additionally, integration features such as project-based work, independent contracts, and remote collaboration tools can support more users to navigate the gig economy environment. Investing in the development of custom mobile applications or improving existing web applications for mobile devices can easily and conveniently improve the user experience. The mobile app will allow users to access the platform anytime, anywhere, receive notifications about new jobs and app updates, and seamlessly apply for jobs from their devices.

5. CONCLUSION

In conclusion, the "Simply Hired" website application provides solutions and innovations for job seekers and employers, providing users with a great platform to apply for and track jobs. Through its intuitive, powerful functionality and constant innovation, Simply Hired aims to improve the job search process, provide users with insight and resources, and facilitate connections between candidates and employers. By integrating technologies such as machine learning, blockchain, and virtual reality, Simply Hired can stay ahead of the pack and provide solutions that meet job relocation needs. Features such as personal development, real-time application tracking, and integration with social media platforms enhance user experience, providing users with recommendations, timely updates, and helpful discussions. Additionally, Simply Hired's commitment to diversity, equity, and inclusion ensures that the platform remains inclusive and accessible to users of all backgrounds and walks of life. Simply Hired fosters an equitable and diverse workforce that provides opportunities for all by partnering with organizations and initiatives focused on diversity and inclusion. As Simply Hired continues to expand into new markets and geographies, it has the potential to become a global leader in the recruiting industry, connecting employers with millions of job seekers around the world.

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