



**IJIRCCCE**

e-ISSN: 2320-9801 | p-ISSN: 2320-9798



# INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN COMPUTER & COMMUNICATION ENGINEERING

Volume 12, Issue 6, June 2024

**ISSN** INTERNATIONAL  
STANDARD  
SERIAL  
NUMBER  
INDIA

**Impact Factor: 8.379**

 9940 572 462

 6381 907 438

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# LOCRES: A Web Based Revolution in Supply Chain Management System

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**ABSTRACT:** It is getting more and harder to find competent individuals based only on location in the fast-paced world of today. The goal of the suggested web application is to completely transform this procedure by providing a centralized platform that keeps an extensive database of qualified people in a variety of professions. This program helps businesses and people that depend on knowledgeable workers to finish projects on schedule by facilitating simple selection from a nearby pool of qualified workers. The Recommendation Engine is a crucial component of the system that optimizes resource utilization and guarantees effective task completion by automatically identifying and assigning assignments to the most qualified and available experts based on their willingness. The interface is easy to use, making it easier to identify needs and allocate resources according to staff availability and proximity. The system's dynamic structure guarantees effective task allocation, maximizes efficiency, and reduces the effort needed to locate qualified people. Organizations and individuals may save operating expenses, increase performance, and improve operational efficiency by putting this workforce management system into practice. Employers and workers may communicate directly thanks to real time tracking of employee answers, which guarantees a first-come, first-served policy and instantly sends information about the first.

## I. INTRODUCTION

Finding talented workers is essential for a variety of people to prosper in today's changing world, since it can be difficult to find qualified individuals for different jobs depending on the location. The goal of the suggested online application is to completely transform this procedure by offering a centralized platform for keeping an extensive database of qualified individuals from a range of areas.

This online application is made to meet the demands of businesses and individuals that depend on competent workers to complete their task within a certain amount of time. It does this by making it simple for them to select qualified workers from a database that is readily available based on factors like availability and location. The system can automatically identify and allocate projects to the most qualified and available specialists depending on their willingness thanks to the recommendation engine, which maximizes resource utilization and guarantees effective completion of tasks.

The system's user-friendly interface makes it simple to determine the needs of those in need and distribute resources according to the availability of qualified workers and the closest location. Because of the dynamic structure of the system, work is allocated effectively, increasing productivity and lowering the risk associated with hiring inexperienced workers. Organizations and individuals may increase performance, save operating costs, and improve operational efficiency by putting the Workforce Management System into practice.

## II. LITERATURE SURVEY

Construction professionals' perception of a web-based recruiting system for skilled labour, The majority of building projects are being handled by a scarcity of trained labor in the global construction sector. To lessen the scarcity, a two-way collaboration technology that effectively links the skilled labor pool to the building projects where it is needed and vice versa must be developed. This study sought to assess construction professionals' perceptions of a web-based skilled labor recruiting system by utilizing the power of web-based technology. The study used CSS, HTML, JavaScript, and MySQL to create an online recruitment system. The web-based systems shown in the study's screen grabs were modelled using system block design and a use case diagram. One hundred (100) structured questionnaires were given out to specialists in the construction.[1]



Application of Building Workers Services in Facing Industrial Revolution 4.0, As a result, an application that may assist construction workers services and make it simpler for the general public to obtain construction workers services is required. Skilled construction workers are only known to those in close proximity to them. The aim of this project is to develop Android applications for building labor services, enabling construction workers to compete in the current 4.0 industrial revolution period. The waterfall methodology, which starts with the phases of analysis, design, creating program code, testing, and maintenance, is the approach employed in this study. Each step of the technique is completed in turn. Utilizing Adobe Illustrator, Air Droid, Android Studio, and Sublime Text, this application is used. However, the challenge with this research is finding skilled and experienced construction workers the majority of whom are not familiar with the digital world—so it is challenging to conduct this research in an antiquated community.[2]

### III. METHODOLOGY

To build the user interface and its functionalities, we will use Visual Studio and HTML, CSS, and JavaScript. In addition, MySQL is used for storing and retrieving user, employer, and employee data. The following are some benefits of using the suggested methodology rather than the current system.

- The system sends requirements to matched skilled individuals dynamically.
- It is easy to allocate tasks to employees.

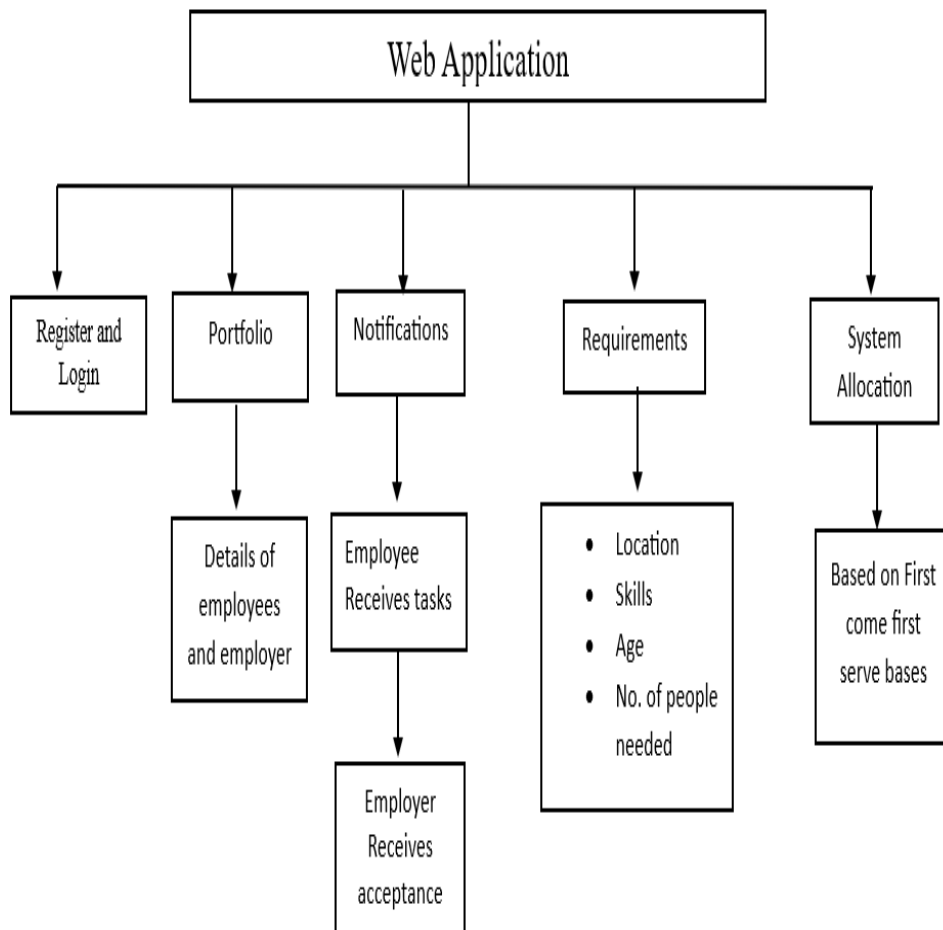


Figure 1: Flow Chart

IV. SYSTEM ARCHITECTURE

With the use of this system, companies can effectively post job requirements and connect with possible candidates, without any middle man.

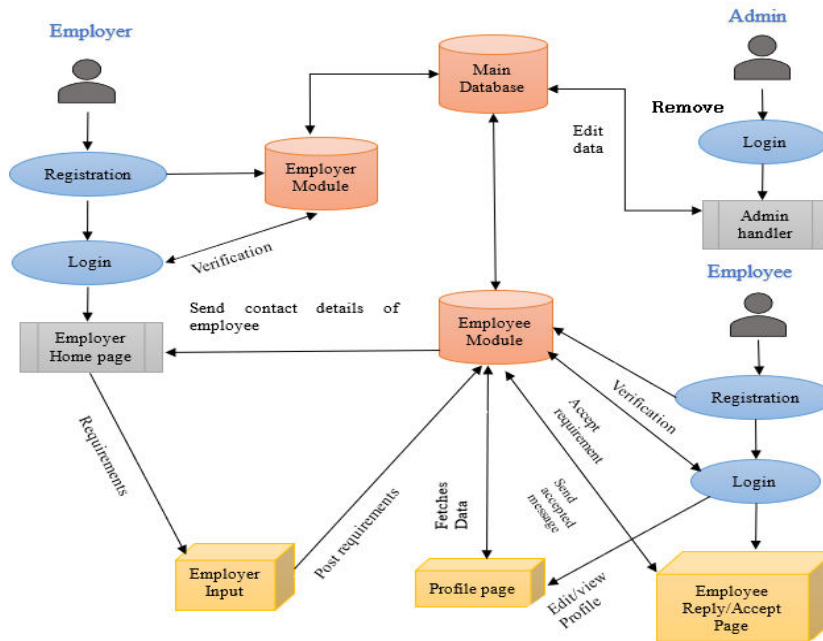


Figure 2: System architecture of allocation system

4.1 Employee Module

- Employee registration involves employees filling out profiles with details about their qualifications, experience, whereabouts, and skills. Employers search for employees according to trade, location, experience, and talents.
- Employee Portfolio: Employees showcase their training, references, and prior experience.
- Information Gathering: Collect data about names, email addresses, location (zip code, city, geolocation), phone number (optional), skills, and experience.
- Availability: Workers provide their preferred work schedule, method of relocation, and notice period.
- Keyword Matching: Utilising phrases associated with expertise and abilities to search through profiles.

4.2 Job Listing Module

- Employer Registration & Account Management: Companies create profiles with details like company name, location, specialization, and contact information.
- Job Posting Management: Employers post job openings with details like title, description, skills, location, schedule, and compensation.
- Job Search & Discovery: Workers search for jobs using filters like location, keywords, category, experience level, and wage range.

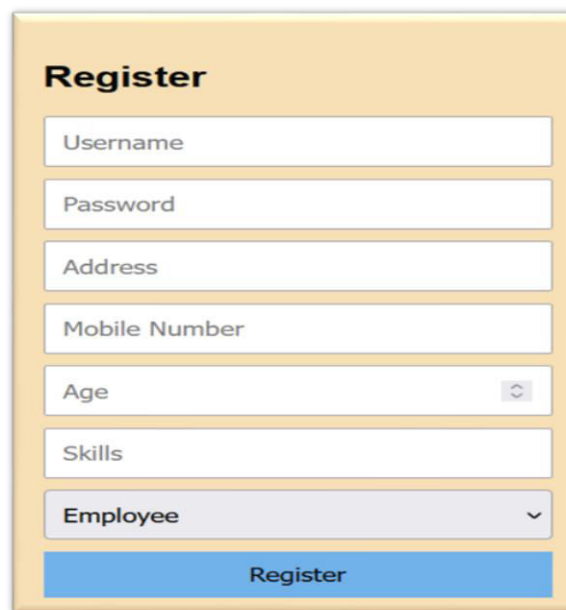
4.3 Communication and Matching Module

- Matching Engine: Matches employees with jobs based on location, skill set, and keywords. enables sorting and filtering according to standards like credentials and experience.
- Secure Communication Channels: An in-app messaging system that allows companies and employees to communicate securely.
- Additional Features: Match rating system, communication reporting, direct contact choices, and optional project collaboration tools.

#### 4.4 Communication and Matching Module

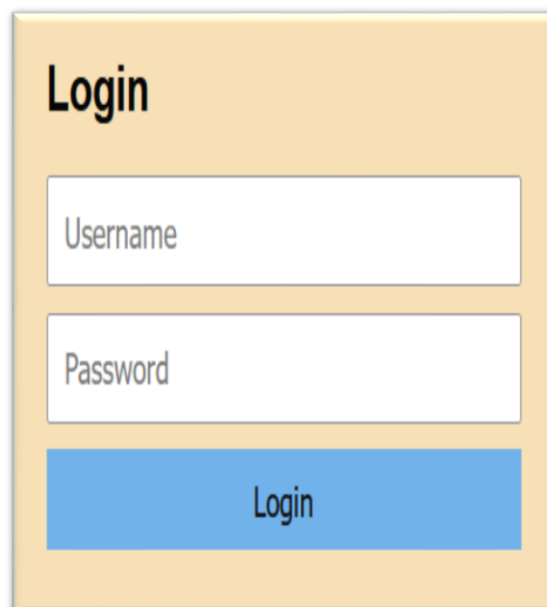
- Data at Rest and in Transit: Protect data with HTTPS and AES-256 encryption.
- User Authentication and Authorization: Assign permissions based on the differences in user roles.
- Secure Coding Practices: Regular code reviews, secure coding techniques, and developer training.
- Vulnerability Management: Consistent patch management and penetration testing.
- Incident Response Plan: A thorough plan for dealing with security lapses.
- Data Privacy Compliance: User control over personal data and data minimization

### V. RESULTS



The registration form is titled "Register" and is set against a light orange background. It contains several input fields: "Username", "Password", "Address", "Mobile Number", "Age" (with a dropdown arrow), "Skills", and "Employee" (with a dropdown arrow). A blue "Register" button is positioned at the bottom of the form.

Figure 3: Employee Registration



The login form is titled "Login" and is set against a light orange background. It contains two input fields: "Username" and "Password". A blue "Login" button is positioned at the bottom of the form.

Figure 4: Login Page for user

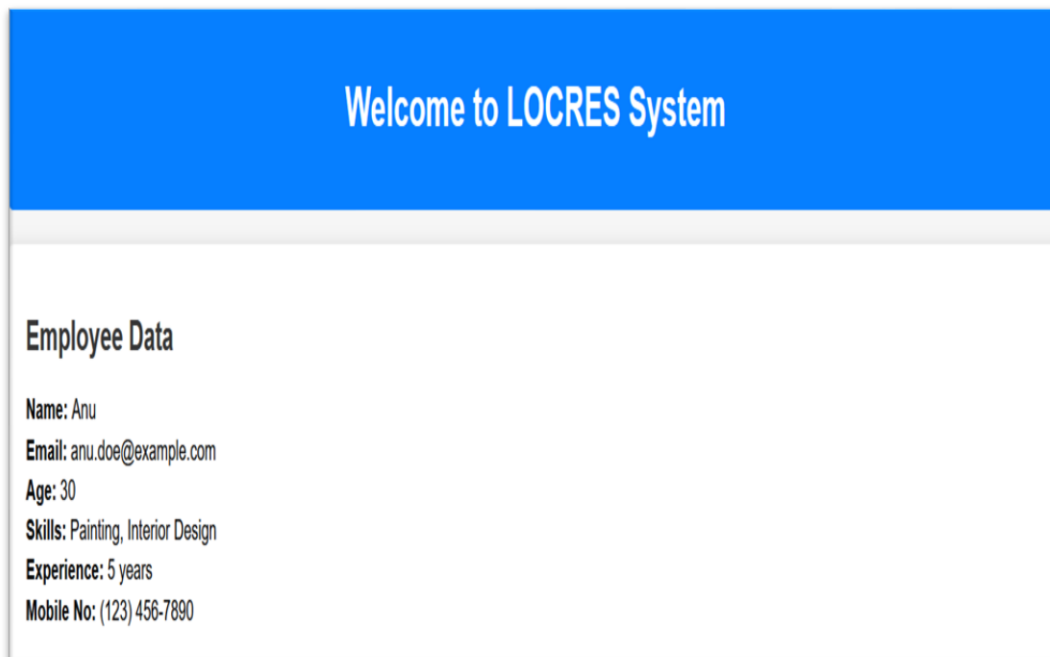


Figure 5: Profile page

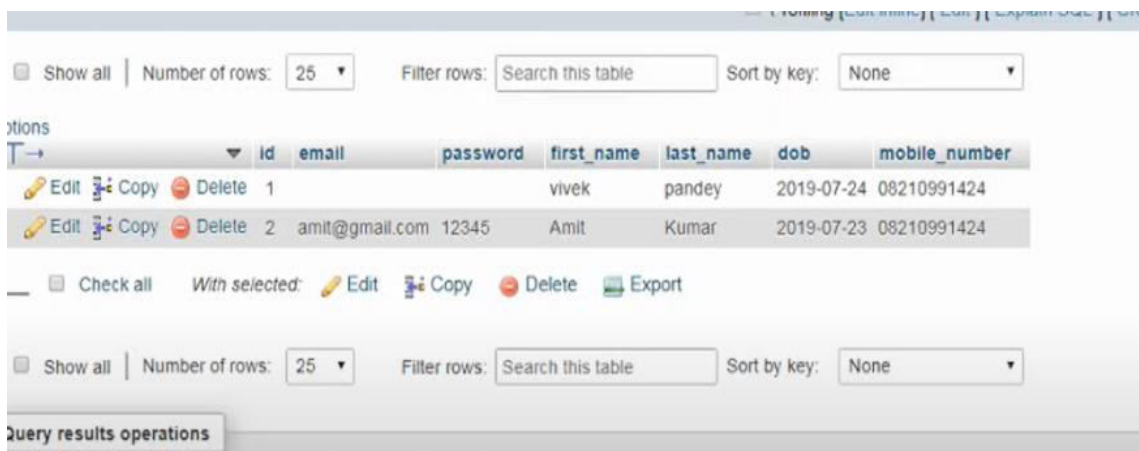


Figure 6: Registered data stored in table

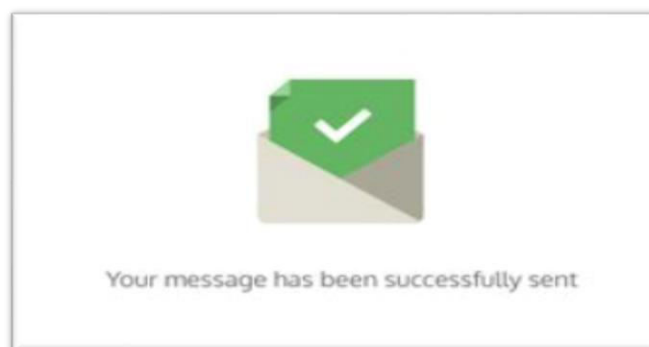


Figure 7: Notification sent to matched employee

## **VI. CONCLUSION**

The employment process has been greatly expedited by the creation of a dynamic notification system that matches qualified candidates with open positions. We have developed a platform that effectively matches businesses with suitable people according to their availability, experience, and skill set by utilising contemporary technologies. We have increased the effectiveness of talent acquisition with robust backend infrastructure and user-friendly interfaces. The employment process has been expedited for businesses and employees both by the system's dynamic notice sending and first-come, first-served response policy. Furthermore, a system for reviews and feedback improves accountability and communication, and a complaints management process guarantees that problems are resolved quickly, enhancing user satisfaction and preserving platform confidence.

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