

A REPORT
ON
Human Resource Management Software

Submitted by,
Ms. K Pavithra - 20211CSE0690

Under the guidance of,
Mr. Md Ziaur Rahman
Assistant Professor

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN
COMPUTER SCIENCE AND ENGINEERING

At



PRESIDENCY UNIVERSITY
BENGALURU
MAY 2025

PRESIDENCY UNIVERSITY
PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND
ENGINEERING

CERTIFICATE

This is to certify that the Internship report "**Human Resource Management Software**" being submitted by "**K PAVITHRA**" bearing roll number "**20211CSE0690**" in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out under my supervision.

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Associate Professor & HOD
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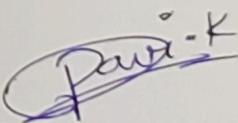
PRESIDENCY UNIVERSITY

PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

I hereby declare that the work, which is being presented in the report entitled "**Human Resource Management Software**" in partial fulfillment for the award of Degree of **Bachelor of Technology in Computer Science and Engineering**, is a record of my own investigations carried under the guidance of **Mr. Md Ziaur Rahman, Assistant Professor, Presidency School of Computer Science and Engineering, Presidency University, Bengaluru.**

I have not submitted the matter presented in this report anywhere for the award of any other Degree.



K Pavithra, 20211CSE0690

INTERNSHIP COMPLETION CERTIFICATE



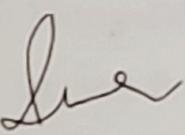
CERTIFICATE OF APPRECIATION

Proudly presented to :

K Pavithra

In recognition of her hard work and dedication in completing the internship as a **Web development intern** from 26/01/2025 to 26/04/2025 at UptoSkills Company.




Shivam Agrawal
Mentor

This certificate can be verified at hr@uptoskills.com

ABSTRACT

The Human Resource Management System (HRMS) is a robust, web-based solution designed to automate and optimize HR operations within organizations. Developed using the Next.js framework with TypeScript, the system ensures high performance, scalability, and maintainability through a modular architecture. The frontend leverages Tailwind CSS for responsive styling, Radix UI for accessible components, and Heroicons for intuitive user interactions, delivering a seamless and modern user experience. Key functionalities of HRMS include employee record management, secure user authentication, automated email notifications (powered by EmailJS), attendance tracking, leave management, and role-based access control (RBAC). The system follows contemporary web development practices, including server-side rendering (SSR), environment-based configuration, and integration with MongoDB for dynamic data handling. Additionally, development tools such as ESLint and PostCSS ensure code quality and efficiency. While currently optimized for local development, HRMS is architected for easy deployment on cloud platforms like Vercel or Netlify, making it adaptable for real-world organizational needs. By digitizing HR workflows, the system enhances operational efficiency, reduces manual effort, and provides a scalable, secure, and user-friendly solution for modern HR management. This project demonstrates the potential of full-stack web technologies in transforming traditional HR processes into streamlined, automated workflows.