

TRAINING AND CERTIFICATION TRACKER



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2

INTRODUCTION

The Training and Certification Tracker System is a software application designed to manage employee training programs and certifications in an organization.

It helps track training records, monitor certification expiry dates, and ensure compliance through automated reminders.

Literature Survey

Existing systems and research show that many organizations use manual methods or basic HR software to track employee certifications. These methods often lead to data errors, missed renewals, and compliance risks. Modern training management systems provide automation, centralized databases, and reporting features to improve efficiency and accuracy.

OBJECTIVES

- develop a system to manage employee training records
- To track certification validity and expiry dates
- To generate renewal reminders
- To reduce manual work and errorsTo
- To improve organizational compliance

METHODOLOGY

The project was developed using modern web technologies:

- **React.js** – For building the user interface (Frontend)
- **Node.js** – For server-side development
- **Express.js** – For handling backend APIs and routing
- **MySQL / MongoDB** – For database management
- **VS Code** – As development environment

EXPERIMENTATION AND ANALYSIS

The system was tested with sample employee and certification data.

- Verified training record management
- Checked automatic expiry date calculation
- Tested reminder functionality
- Analyzed system accuracy and response time

The results showed improved efficiency, reduced manual errors, and better tracking of certifications.



CONCLUSION

We developed a **web-based Training & Certification Tracker** to manage employee trainings and certifications efficiently.

The system tracks expiry dates, sends automated reminders, and provides a centralized, user-friendly platform.

This project was chosen to **reduce HR's manual workload**, improve compliance, and simplify tracking for future employee training and certification management. It is **scalable, efficient, and ensures organizations can maintain up-to-date records with minimal effort**.