

Manufacturing

Mobile and Web
Application Development

Transforming Maintenance Operations: A Dual-Platform ERP for Efficient Management

ChemCoolX is a powerful coolant management application tailored for fluid handlers across various industries. Designed to streamline the logging, monitoring, and maintenance of coolant, hydraulic, and maintenance oil data, ChemCoolX ensures that machinery operates at peak efficiency, reducing downtime and enhancing overall productivity.



iProgrammer, in a nutshell



17 Years of Excellence

For 17 years, iProgrammer has excelled in bespoke product engineering and more.



300+ Products Live

Successfully delivered premier products across both web and mobile platforms to date.



Fortune India 500

iProgrammer has been the technology partner to Fortune India 500 - Hero Corp, Tata Communications and HDFC.



350+ Tech Team

We are more than 350 tech experts with a strong background in various leading technologies.



4 Million DAUs

Our B2C mobile application developed for Vodafone-Idea currently has 4 million daily active users (DAUs).



128 Million End Users

Our applications have been utilized by around 128 million end users globally.



Pain Area

The client faced challenges with inefficient maintenance tracking, lack of real-time data, and disjointed systems, leading to operational inefficiencies. **Manual workflows and limited** visibility into machine health resulted in increased downtime, higher costs, and poor decision-making, hindering timely service delivery.



Our Solution

Mobile Application: "ChemCoolX" Solutions

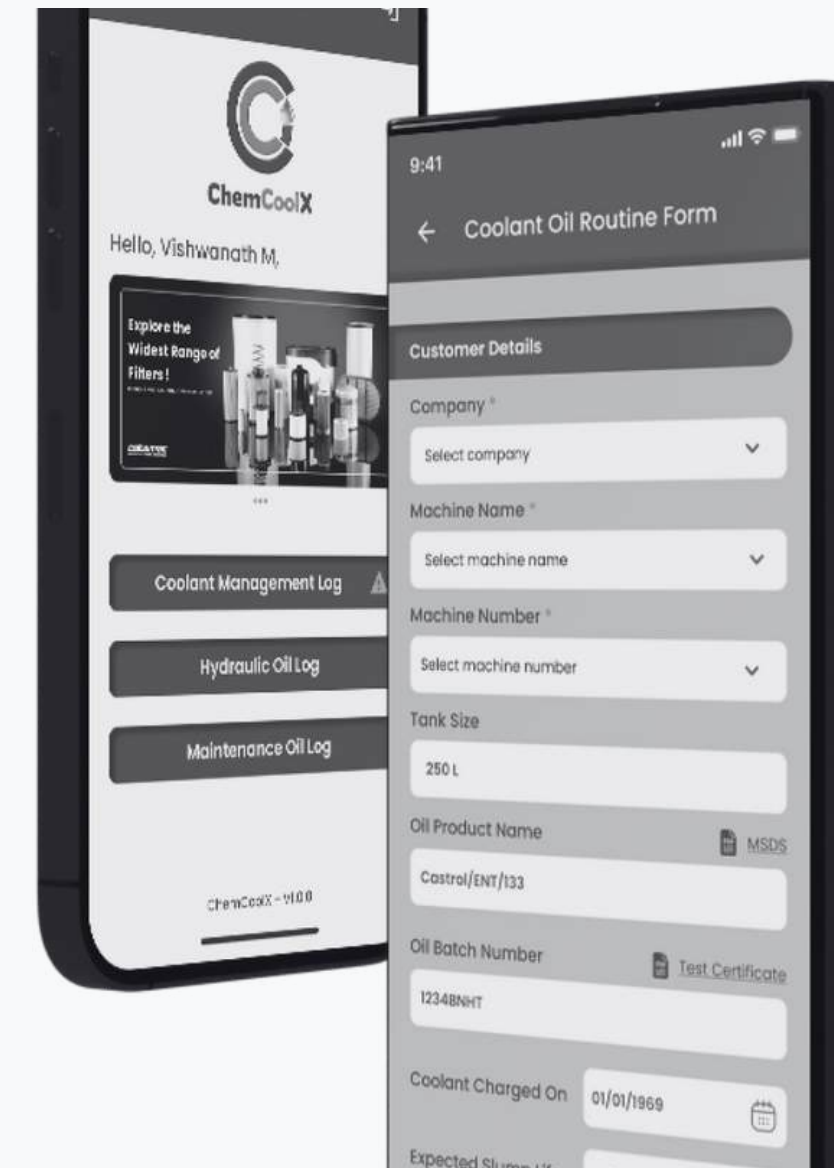
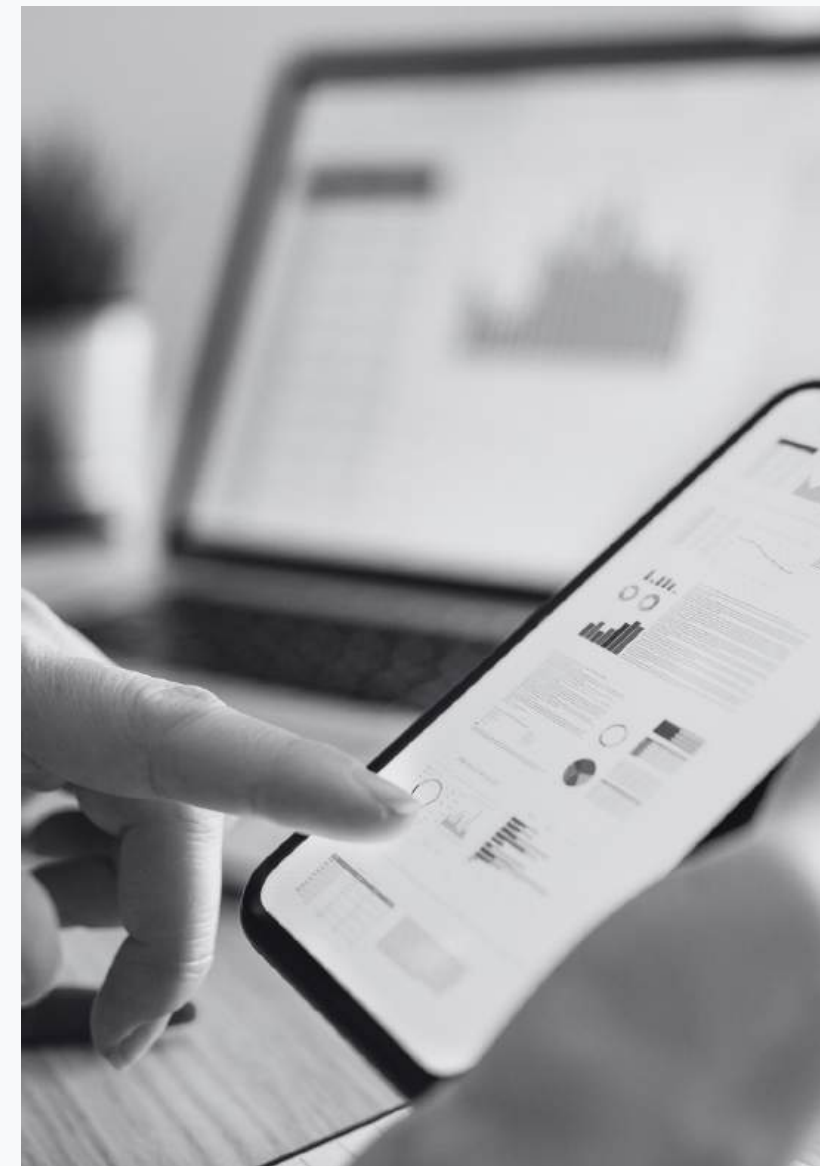
We recommended the "ChemCoolX" mobile application as a solution to address the critical pain points of manual tracking, real-time data access, and efficient oil management.

With field operators often on the move, the need for an intuitive, real-time tool became essential.

The mobile app enables instant logging of maintenance checks, direct updates to maintenance records, and precise tracking of oil usage—all from the field.

This not only reduces reliance on manual methods but also ensures that maintenance data is captured accurately and timely, empowering operators to make informed decisions quickly.

The timely notification for machine maintenance in mobile application enabled sound ecosystem within the organization.



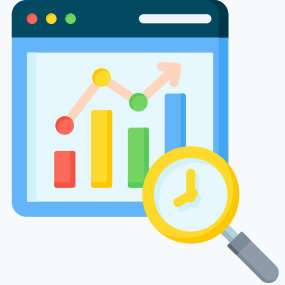
Application Solved It All

Mobile Application: "ChemCoolX" Solutions



Maintenance Tracking

The mobile app enables field operators to instantly log maintenance checks and machine issues in real-time, replacing manual and disconnected tracking methods.



Real-Time Data Access

With "ChemCoolX," field operators have immediate access to update and retrieve maintenance records on the go, ensuring timely updates and faster decision-making.



Oil Management

The mobile app allows operators to log oil usage and consumption directly, facilitating real-time tracking and ensuring accurate oil management on-site.



Web Application

iProgrammer recommended a web application as a centralized solution for user, machine, and maintenance management. It streamlines workflows, automates subscription tracking, and provides detailed analytics, enabling efficient oversight and informed decision-making.



User and Machine Management

The web application centralizes user management, machine tracking, and maintenance scheduling in one platform, providing clear visibility and reducing inefficiencies.



Reporting and Analytics


The web application generates comprehensive reports on machine health, oil usage, and maintenance history, offering powerful analytics and insights for management and decision-making.



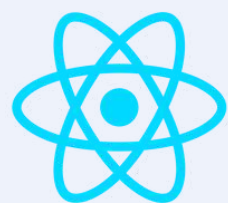
Subscription and Service Tracking

The web platform automates the tracking of service subscriptions, renewal schedules, and service histories, ensuring efficient management and reducing administrative overhead.





Technology Stack



Front End - React JS | Mobile - React Native

React.js offers a dynamic and responsive user interface, ideal for the web application's need to handle complex user and machine management tasks efficiently. Its component-based architecture ensures scalability as the system evolves.

React Native:

React Native enables cross-platform mobile app development, reducing development time and cost while delivering a high-performing, user-friendly app for field operators.



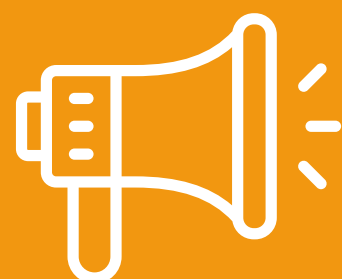
Back End - Node JS

Node.js is well-suited for real-time data handling and high-speed operations, making it perfect for logging and managing maintenance records while supporting seamless communication between the mobile and web platforms.



Database - MySQL

MySQL provides robust and structured data management, essential for handling the detailed records of users, machines, oil usage, and maintenance schedules while ensuring reliability and scalability.



Technology Stack

aws

DevOps / Infrastructure - AWS

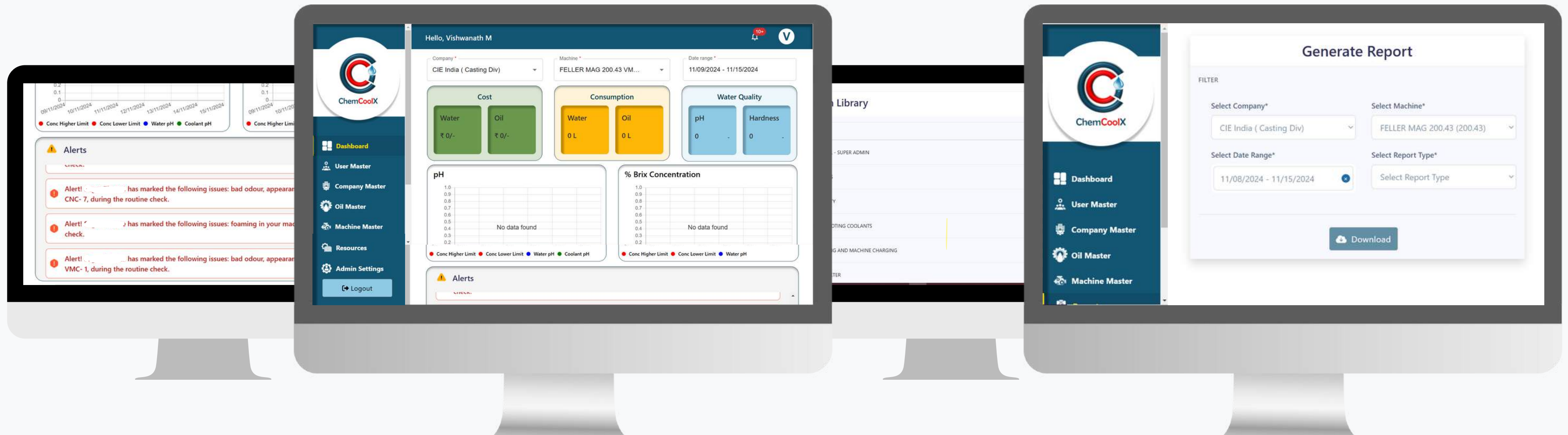
AWS offers a highly scalable and secure environment, which is critical for hosting the ERP system with the flexibility to scale based on the client's growing needs and user base.



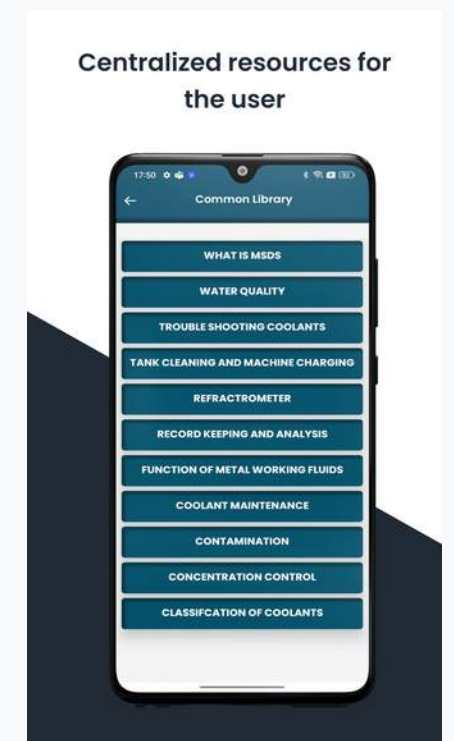
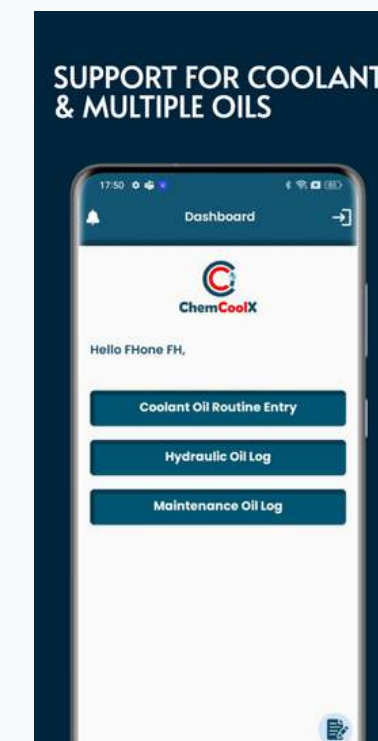
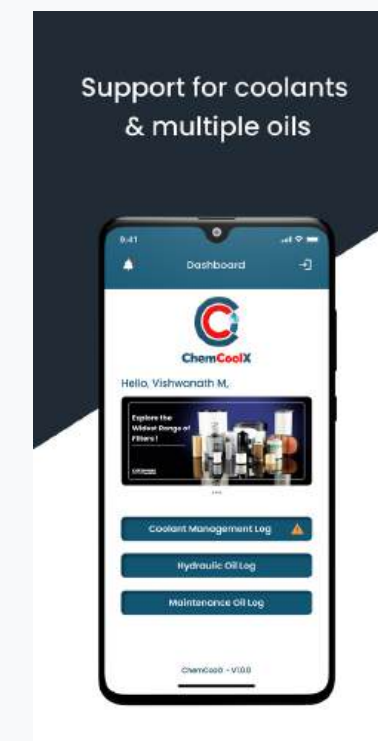
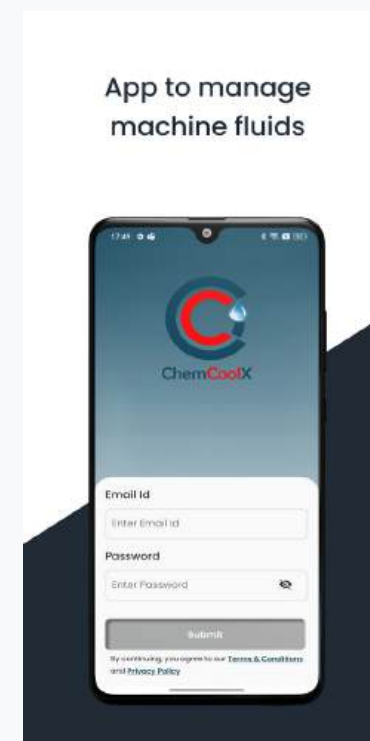
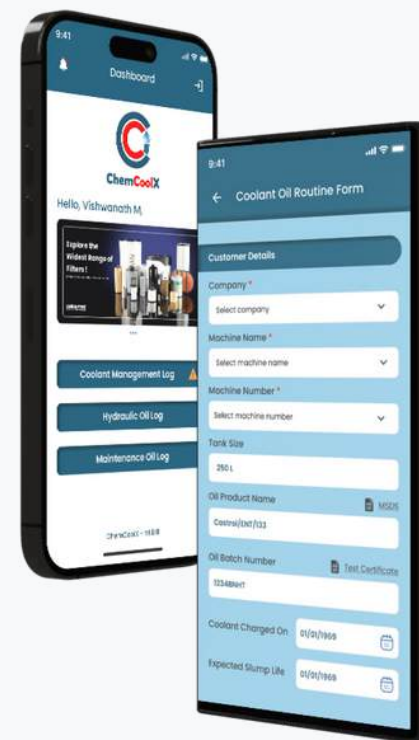
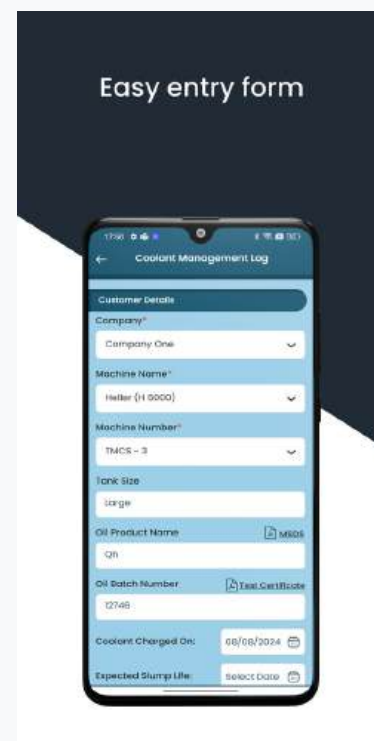
Testing & Quality Assurance: Manual

Manual QA was selected to perform detailed, scenario-based testing specific to this ERP's unique requirements, ensuring all functionalities align with real-world use cases and business needs.

Web Application - Glimpse of ChemCoolX



Mobile Application - Glimpse of Chem CoolX



click to see





What do we offer?

Our Services



Product Engineering

- UI/UX Engineering
- Web Application Development
- Mobile App Development
- Backend/Middleware Development
- Frontend Development
- Data Analytics
- Legacy System Modernization



Cloud & DevOps

- Cloud Consulting
- DevOps Consulting
- DevSecOps Consulting
- CI/CD & Infrastructure Automation
- Kubernetes Adoption



Internet of Things (IoT)

- Device Connectivity
- Data Analytics and Visualization
- Security Solution
- Cloud Integration and Management



Startup Consulting

- Product/MVP Development
- Statutory Compliance Consulting
- Technology Consulting
- Application Development
- UI/UX Design and Business Branding
- Customer Experience Strategy

LET'S BREW SOME COFFEE TOGETHER.



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