

SUCCESS STORY



MULTITENANT HRMS PRODUCT DEVELOPMENT USING MICROSERVICES

PROJECT OVERVIEW

Indium developed an HRMS product incorporating multiple HR modules and seamlessly integrating with Payroll and ESS systems. The system was built on a secure multitenant microservice-based architecture enabling a modular and configurable platform for increased scalability and customizability

SOLUTION DELIVERED

Product Development

CLIENT DOMAIN

Application Development

KEY HIGHLIGHTS

- 40% increase in customer satisfaction from a single end-to-end product
- Increased customizability, scalability and data integrity from a multitenant microservice architecture
- 30% reduction in time and effort from improved customizability

ABOUT CLIENT

The client is an HRMS company providing Human Resource Management functions and operations. HR operation plays a vital role in any company, in that case, it is a hassle to maintain and manage the entire process manually. To address this issue, the customer aimed to create an HRMS Product aiming to transform HR operations using technology without compromising confidentiality. To ensure an end-to-end system covering all HR functionalities catering to multiple customers, the product needed to be designed with multitenancy and features covering all HR operations.

BUSINESS REQUIREMENTS

- Design a product architecture incorporating multitenancy and scalability
- Ensure customizability on the platform to cater to the requirements of new organizations being onboarded
- Incorporate functionalities for HR operations
- Integration with external applications catering to Payroll Processing, Employee Self-Service etc.
- Configure security and data confidentiality for the customer information in the system

SOLUTION HIGHLIGHTS

- The HRMS application was built leveraging best in class technologies - Spring Boot for backend and Angular 4 for frontend
- Implemented a multitenant microservices-based architecture to enable customization, faster synchronization and increased the scalability
- Developed customizable features for HRMS modules like Manpower Planning, Recruitment, On-boarding, Appraisal, Training, Exit etc.
- Integrated the system with applications like Payroll Processing, Employee Self-Service etc., using SSO
- Deployed the product on AWS with an RDS service for MySQL

BUSINESS IMPACT

- 40% increase in customer satisfaction from a single end-to-end product, incorporating all HRMS features
- Increased integrity of data due to the multitenancy architecture.
- 30% reduction in time and effort to customize components for each new tenant
- The microservice implementation allowed the system to synchronize faster and increase its scalability

TECH STACK



ABOUT INDIUM

Indium Software is a fast-growing Digital Engineering company, focused on building modern solutions across Applications, Data, and Gaming for its clients. With deep expertise in next-gen offerings combining data and applications, Indium offers a wide range of services including Product Engineering, Low-Code development, Data Engineering, Ai/ML, Digital Assurance, and end-to-end Gaming services.



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