Cloud-Native Application For Patent & Contract Management

About The Customer

The customer has over three decades of collective experience in the invention rights space. The team assists individual inventors and organizations with their expertise in establishing licensing revenue streams from IPs. The client uncovers hidden value in IP assets and monetizes to maximize the value.

Business Challenge

The client's IT setup was a legacy, with minimal modernization introduced over the years. The primary reason behind the gradual update was the traditional user base and consultants with little technology exposure. With operational complications and slow IT modernization, the client continued to manage and track business processes in conventional ways using MS Excel as a primary tool for maintaining data. The business information was stored in spreadsheets right from initiating any case until its closure. This approach had some inherent problems that included -

- **Managing a huge amount of data:** The number of active patent licensors filing cases through the client company is enormous. With more than 50 active cases at any given time, maintaining all their information resulted in overwhelming data. It was tedious to manage all this data. Finding any specific information through these extensive data sets was a challenging task. Modifying the case-related data was, again, a complicated process.
- **Complex financials:** The calculation that included the Settlement Proceeds between all the stakeholders as per their share percentage was the most challenging part of the business. With multiple possible scenarios, automating the calculation part was an arduous task. The client considered every case individually, and calculations were performed using Excel formulae. Since MS Excel and spreadsheets were the go-to tools for storing and managing the data, there was a lot of redundant data.
- **Stakeholder management:** Due to a manual storage process that involved storage of actual contract documents for several stakeholders, viz., Licensors, Law Firms (Counsels), Brokers, Sellers, and Contractors (Consultants), referring to the contracts between each party over distinct locations at different points in time was also difficult.

How Opcito Helped

Opcito's architects and engineers studied the client's business model and available documentation. After carefully assessing all the data, Opcito decided to design and implement a microservice-based SaaS application that will act as a data management engine. This engine efficiently maintains clientele data with AWS Cloud services used for infrastructure needs. Opcito created microservices for every business operation and used Amazon's managed Kubernetes service EKS (Elastic Kubernetes Service) to containerize these microservices and auto-scaling. These microservices handle operational activities without any manual intervention. The application was developed in Python and designed using React JS. The access to the data stored on AWS S3 buckets and the process functions is controlled using RBAC.

The deployed system now caters to all the business processes across the life cycle of a case for the client. It seamlessly allows handling complex business calculation use cases with a single click.

Technologies, Tools, and Platforms used

AWS

EKS

REACT JS

MYSQL
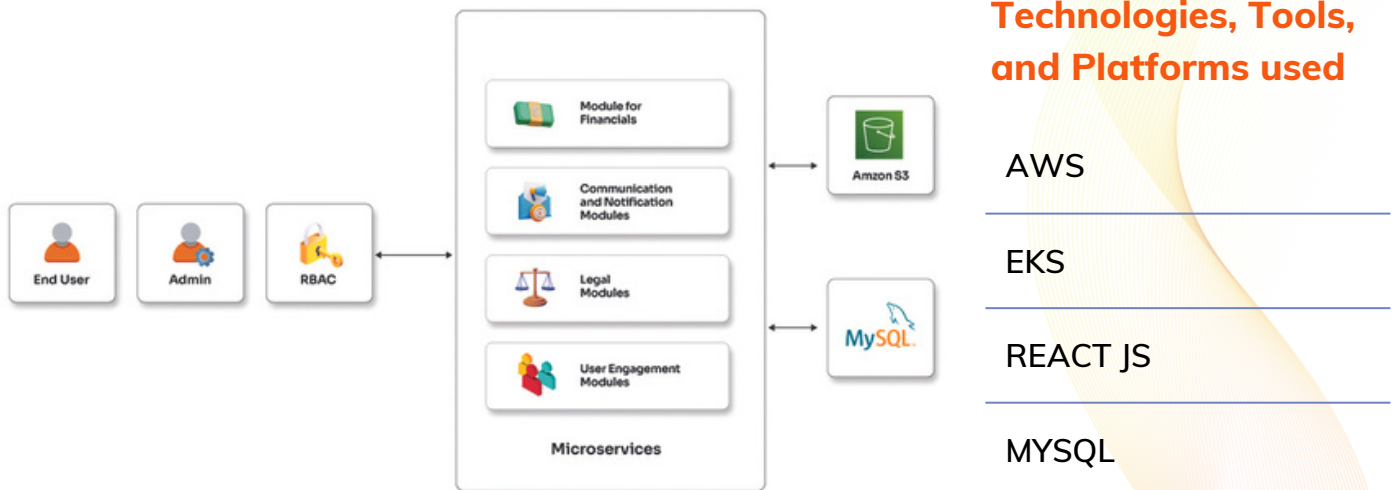
Benefits

REDUCED TURNAROUND TIME	Efficient data management reduced the manual efforts needed to maintain the details. The losses due to human errors were minimized, and the turnaround time for handling litigations was reduced by 70%
ENHANCED SECURITY	Enhanced login features and RBAC secured access to the system and data resulting in increased confidentiality of the clientele data
ENHANCED REPORTING & ANALYTICS	With centrally available data, it is now convenient for the stakeholders to analyze their business data, refer to documentation, and pull reports quickly from the system

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IMPROVED SYNERGY

With secured access to third-party consultants, the synergy between all the entities involved in the litigations improved significantly, facilitating better coordination and quicker response for efficient decision making

About Opcito

At Opcito, we believe in designing transformational solutions for our customers, start-ups, and enterprises, with our ability to unify quality, reliability, and cost-effectiveness at any scale. Our core work culture focuses on adding material value to your products by leveraging best practices in DevOps, like continuous integration, continuous delivery, and automation, coupled with disruptive technologies like containers, serverless computing, and microservice-based architectures. We also believe in high standards for quality with a zero-bug policy and zero downtime deployment approach.

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