

HEXAWARE

Automotive Services Application Modernization on Google Cloud

Case study



Client

- | Client
- Challenge
- Solution
- Benefits
- Summary

Our client is a top retailer and distributor of automotive parts and accessories. They help individuals and businesses keep their vehicles running safely and reliably. Focusing on innovation and excellent service, they have earned a strong reputation for providing dependable solutions and outstanding customer support.



Challenge

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Legacy Enterprise Document System Modernization

Our client relied on an old, on-premises document management application to handle service records, compliance paperwork, and customer files. As business grew, this outdated application couldn't keep up with the increasing volume of documents or the need for new services. Slow performance made it harder for staff to access information quickly, which delayed service appointments and affected both employees and customers.

Their legacy application also didn't fit the company's new strategy to move operations to the cloud, making it difficult to adopt modern digital and AI tools or stay ahead of industry changes. Further, maintaining the old infrastructure was costly, taking away resources that could have been used for innovation and customer engagement.

Overall, these challenges slowed down operations, limited growth, and made it harder for the company to maintain its high-quality service delivery.



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Cloud Application Modernization on Google Cloud

Our Google Cloud strategy and cloud app modernization engagement transformed our client’s Electronic Document Management System (EDMS), transitioning it from legacy on-premises infrastructure to a scalable, cloud-native environment on Google Cloud Platform (GCP).

Our solution broke down the monolithic architecture into nimble microservices, upgrading the technology stack with Google Cloud Platform (GCP) offerings such as Google Kubernetes Engine (GKE) and more for scalability, high availability, and future readiness.

Hexaware’s Cloud App Assessment and Strategy

Hexaware’s Cloud App Assessment and Strategy provided a structured approach to modernizing the client’s application landscape. Here’s how we laid a strong foundation for a successful Google Cloud transformation for their new application:

- **Discovery and Assessment:** Conducted a thorough analysis of the existing system, business needs, and dependencies.

- **Stakeholder Collaboration:** Worked closely with client IT and business leaders to align the solution with operational realities.
- **Phased Google Cloud Platform (GCP) Migration:** Adopted a 7-step migration methodology to ensure a controlled, high-value transformation.

Hexaware’s Cloud App Modernization Services

Containerization and Cloud Migration

We converted the client’s document management system to an application using Google Cloud using Kubernetes, making it more scalable, reliable, and easier to manage.

Microservices Transformation

We split the old, single-piece application into smaller microservices. This made the system more flexible, easier to update, and faster to develop.

Modern Application Stack

We upgraded to the latest technologies—JDK 17, Spring Boot 3, and React—for a better user experience and faster performance.

Secure Multicloud Feature Integration

We improved security and enabled smooth connections with other cloud services by adding Apigee Gateway and SAML authentication.

Optimized Data and Storage

We moved all files and databases to Google Cloud, making data management easier and more reliable.

Cost and Resource Efficiency

The new cloud setup, powered by FinOps strategies, lowered costs and used resources more efficiently, maximizing the value of cloud infrastructure.

Ensuring Reliable Quality

Our advanced testing and comprehensive software development ensured the application is stable, high-quality, and ready to support business needs.

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A Cost-friendly, Cloud-native Document Management Application

A Modernized Enterprise Document Management System

With the new enterprise document management system (EDMS) as an application with microservices on the cloud, teams can now collaborate better and improve operations.

35% Application Performance Improvement

The Google Cloud app modernization delivered a 35% improvement in application response time, making the user experience smoother and workflows more efficient.

50% Better Business Operations

By streamlining document management and automating key workflows, our client achieved a 50% improvement in business operations — driving faster decisions, smoother processes, and better outcomes across multiple departments.

45% Lower Cloud Resource Usage Costs

Switching to GCP and microservices cut ownership costs by 45%, freeing up budget for new strategic initiatives.

40 TB of Storage Saved

Migrating to Google Cloud Storage saved 40 TB of data, reducing infrastructure needs and improving data management.

Cloud-First Security and Compliance

The GCP-powered environment ensured strong security, compliance with the client’s cloud-first strategy, and alignment with industry’s best practices.

Future-Ready Business Transformation

Our client now has a scalable, modern application that supports ongoing innovation, quick adaptation to market changes, and sustainable cost savings.



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Faster, Leaner Operations with the New Application

Our client now has a powerful Enterprise Document Management System (EDMS) built on modern, microservices-based architecture. By partnering with Google Cloud, we helped the mid-sized business create an application that drives operational improvements and cloud cost reduction.

Today, they run a leaner, more agile operation—and are well-prepared to scale innovation.



Modernize Your Application to Google Cloud

Are legacy systems hampering your business potential? Reimagine what your platforms and apps can do with Google Cloud. Contact marketing@hexaware.com to get started.

About Hexaware

Hexaware is a global technology and business process services company. Every day, Hexawarians wake up with a singular purpose: to create smiles through great people and technology. With this purpose gaining momentum, we are well on our way to realizing our vision of being the most loved digital transformation partner in the world. We also seek to protect the planet and build a better tomorrow for our customers, employees, partners, investors, and the communities in which we operate.

With offices across the world, we empower enterprises to realize digital transformation at scale and speed by partnering with them to build, transform, run, and optimize their technology and business processes.

Learn more about Hexaware at <https://www.hexaware.com>.

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