NSE
NSEIT

nseit.com

Supercharging performance and user experience with Application Rationalization

CASE STUDY

About Client
Leading financial player

Industry
Capital markets

Service
Applications

© NSEIT Limited. All rights reserved.

Business **Need**

The client is a trusted provider of clearing and settlement services across multiple financial markets. Over the years, they have assumed various roles and continuously evolved to meet the changing dynamics of the industry.

The client has successfully developed, implemented, and managed the Reserve Bank of India (RBI)-owned anonymous electronic trading system for G-Secs. They have also established an electronic trading platform facilitating seamless electronic dealing in the Call, Notice, and Term Money market. These platforms continue to play a vital role in enabling efficient and secure transactions.

Given their criticality, it was imperative that the platforms remain performant, reliable, and agile. The client thus wanted to optimize their platform functionality to stay productive, efficient, and agile.

Business **Challenge**

The client faced several challenges with their existing websites, platforms and applications including:

Outdated technology and high maintenance costs

They were in use for a considerable period and had undergone numerous maintenance cycles. They were developed using outdated technology, which not only posed compatibility issues but also escalated maintenance expenses

Performance issues

The outdated websites and applications were prone to performance bottlenecks, leading to slower response times and inefficiencies in handling a growing volume of transactions

Lack of agility

They lacked the flexibility and adaptability required to swiftly respond to changing market demands

The client turned to NSEIT in a bid to modernize its platforms, applications, and websites owing to our extensive experience and established domain expertise.

Business **Solution**

At the outset, NSEIT undertook Application Portfolio Rationalization Assessment. It involved a thorough assessment and optimization of the enterprise applications, systems, and infrastructure — considering their functionality, business value, technical debt, maintenance costs, usage patterns, future compatibility, and other relevant factors. This systematic and data-driven methodology helped the client understand the value, relevance, and impact of the enterprise applications on the overall IT landscape and finalize the modernization roadmap.

As per the defined roadmap, external-facing websites were made adaptive, ensuring consistency, functionality, and optimization across platforms. To streamline data access, intuitive queries and filters were incorporated, allowing users to retrieve the desired information efficiently. This resulted in a seamless browsing experience with enhanced usability and accessibility.

As part of the upgrade, analytics and visualization modules were also added to the websites. These modules provided valuable insights derived from the presented data. By empowering users to make informed decisions based on these insights, we enhanced the overall value and usefulness of the platforms.

Tech **Stack**

Liferay

Jasper

Apache Tomcat

PostgreSQL

Java 8

spring boot

Business **Impact**

By harnessing NSEIT's extensive experience and technological expertise, the client positioned itself for growth, adaptability, and disruption-ready services. The process:

Improved flexibility, speed, and performance

- Seamless adaptation to changing business requirements
- Rapid scalability to handle increased workloads without compromising efficiency

Accelerated time-to-market with shorter releases

- Swift deployment of innovative products, services, and features
- Gaining a competitive edge by keeping up with market demands

Optimized user experience

- Uninterrupted access to a large user base
- Efficient utilization of platform resources
- Near-instantaneous (~3 second response time) interactions for a smooth user experience
- Enhanced user satisfaction and engagement

About **NSEIT**

NSEIT Limited is a digital native technology company that engineers world-class solutions to help our global customers accelerate their digital transformation journeys. Our key service pillars are Application Modernization, Business Transformation, Data Analytics, Infrastructure & Cloud Services, and Cybersecurity, through which we create intuitive digital experiences and tangible business impact. For over two decades, our innate drive for excellence has made us the partner of choice for global organizations. At NSEIT, we fuel digital progress.

For more information, visit us at nseit.com

Follow us at:

© NSEIT Limited. All rights reserved.
All trademarks, logos, and brand names are the property of their respective owners. All company, product, and service names used are for identification purposes only. Use of these names, trademarks and brands does not imply endorsement.