

Microservice based integration to **achieve scalability & agility**

CASE STUDY



About Client

A leading Indian electronic central security depository firm



Industry

Capital market



Service

Applications

Business Need

The client was still using its legacy systems for its business processes. The client was looking for a partner to strengthen its business offerings in the capital market as a Registrar & Transfer Agent (RTA) by modernizing its RTA platform. This shift

required the re-engineering of its monolithic architecture into a more viable microservice-based architecture, at par with global standards.

Business Challenge

In a fast-paced world where speed and innovation decide who wins, organizations need to be agile and flexible in real-time to stay competitive. By adopting a microservice architecture, organizations can break down legacy applications into smaller, independent, and deployable services that can be maintained separately. This offers scalability, flexibility, and resilience that empowers organizations to remain relevant in an evolving business ecosystem. Our client was still dependent on its legacy

architecture, which was unable to handle the large volumes of data. Big data posed significant challenges on their outdated systems which resulted in long drawn processes that were time consuming and expensive - negatively impacting the performance of the organization. The client wanted to transform its monolithic architecture into a microservice-based framework to modernize their RTA platform and maintain all the records for commercial paper issuers to carry out the functions of a registrar.

Business Solution

NSEIT collaborated with the client in their efforts to transform their monolithic architecture to a microservice-based framework. Our team of innovative software experts designed a loosely coupled architecture using Rabbit MQ and Activiti BPM workflows. This architecture provided a multi-threaded environment. Our team used Spring Boot processing to deploy

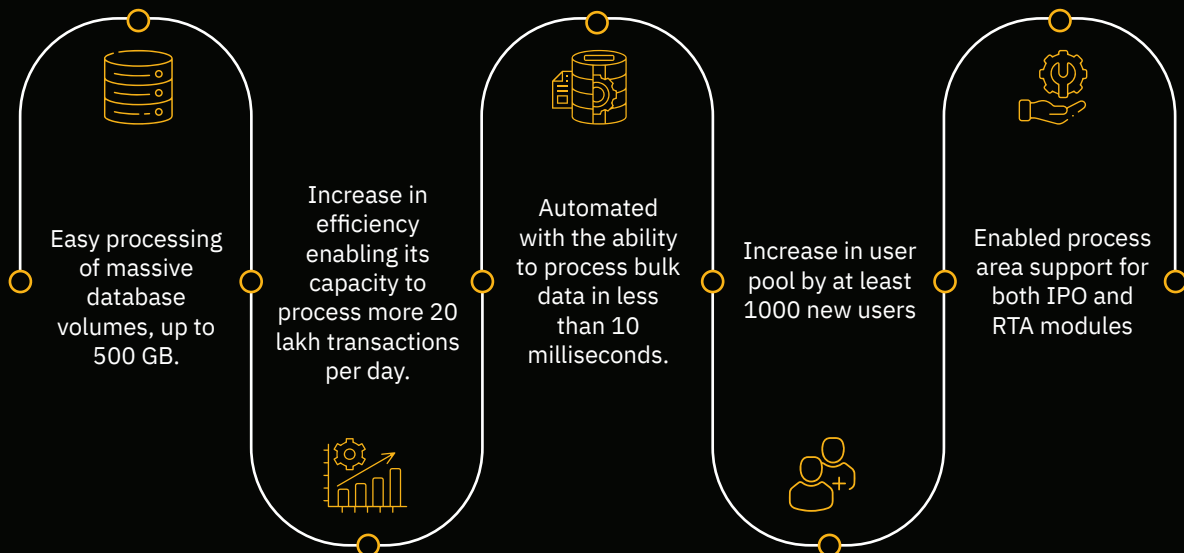
a microservice-based architecture, transforming the rigid monolithic architecture to a scalable and flexible one. With the growing threat landscape, digital transformations are under constant risk from sophisticated cyber criminals. To secure this transition, NSEIT's team of experts adopted various DevOps configurations during the development process.

Tech Stack



Business Impact

NSEIT deployed this solution with an Offshore Delivery Centre Model to enhance flexibility while providing managed delivery. Following a successful integration, some of the main benefits the client's business gained included:



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.

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