

# Case Study

## New age back office system with next-gen technology

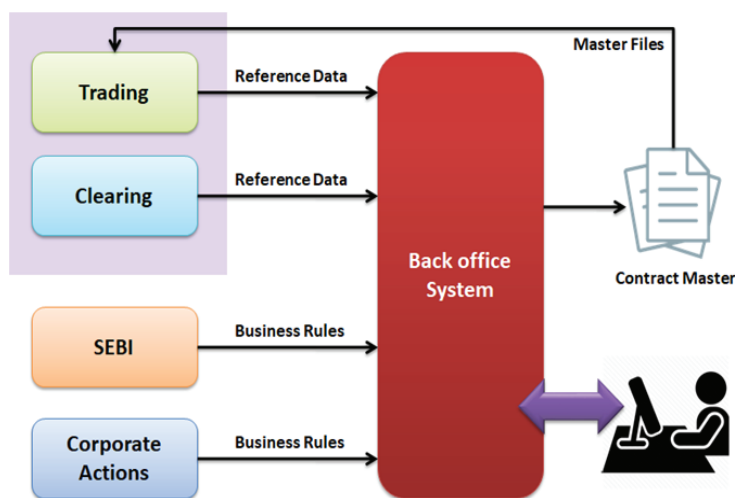
### Problem Statement

One of the largest stock exchanges in the world was using an independent system unified into clearing system. Unfortunately, the firms were encountering various challenges in back office system, which aggravated

operational issues for the exchange's business users. To overcome these issues, it was looking for a vendor to modernize and enhance the current back office system, which would handle expiry of contract parameters and upgrade system with following capabilities:

- Act as a data warehouse to store important information related to assets, instruments, underlying price and contract price
- Generate reports for end-users

### Proposed Solution



After a thorough evaluation process, the firm selected NSEIT as a vendor to develop and maintain new back office system which would eliminate operational issues faced by stock exchange's business users. NSEIT saw this opportunity to extend Reverse Engineering practices to manage back office system and build collaborative work culture with client. NSEIT's innovative software architecture team designed new age architecture using next-gen technology stack. This solution was implemented with batch processing systems for its real time activities, status tracking, audit trails and navigation via dashboards.

To handle risk involved in migration of previous system, NSEIT adopted Log viewer tools and followed dry runs with parallel system model during development. NSEIT delivered the service with flexibility while providing managed delivery.

### Outcomes

- 45% faster Time-to-Market
- 40% reduction in cost
- 100% automated generation of contracts for trading in the derivative market
- Efficiency to track errors in business rules and database connections