

# Proposal

# Next Generation Back Office For **Sinha Securities Ltd.**

Offer Date: 07th October | 2024

A.A. Bhaban (level-6), 23 Motijheel C/A, Dhaka, Bangladesh

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[ঢাকা স্টক এক্সচেঞ্জ (অ্যাডমিনিস্ট্রেশন অব ট্রেডিং রাইট এনটাইটেলমেন্ট সার্টিফিকেট) প্রবিধানমালা, ২০২০ এর প্রবিধান ৮(৭) দ্রষ্টব্য]

# BACK-OFFICE SOFTWARE VENDOR ENLISTMENT CERTIFICATE

## DHAKA STOCK EXCHANGE LIMITED

DSE Tower, Plot # 46, Road # 21, Nikunja # 2, Dhaka-1229

Certificate Serial Number: **005**

Date of issuance: **31<sup>st</sup> December 2023**


In accordance with the ঢাকা স্টক এক্সচেঞ্জ (অ্যাডমিনিস্ট্রেশন অব ট্রেডিং রাইট এনটাইটেলমেন্ট সার্টিফিকেট) প্রবিধানমালা, ২০২০ এর প্রবিধান ৮(৭), Dhaka Stock Exchange Limited hereby permits **Next Generation Back-Office (NGBO)**

Back-Office Software of **LankaBangla Information System Limited**

Address **AA Bhaban (Level - 6), 23 Motijheel C/A, Dhaka-1000, Bangladesh** as a Back-Office Software Vendor for the TREC Holder Companies of Dhaka Stock Exchange Limited. This Vendor is qualified to provide Back-Office Software services in compliance with the approved guidelines.

This permission shall be valid subject to the fulfillment of conditions mentioned on the other page.

For and on behalf of the Exchange,

  
Chief Regulatory Officer

  
Managing Director



## BACK-OFFICE SOFTWARE VENDOR ENLISTMENT CERTIFICATE

### Chittagong Stock Exchange PLC.

CSE Building, 1080, Sk. Mujib Road, Agrabad, Chattogram-4100, Bangladesh.

Certificate Serial No: 02

Date of Issuance : 31<sup>st</sup> March, 2024

*In accordance with the চট্টগ্রাম স্টক এক্সচেঞ্জ (অ্যাডমিনিস্ট্রেশন অব ট্রেডিং রাইট এনটাইটেলমেন্ট সার্টিফিকেট) প্রবিধানমালা, ২০২০ এর প্রবিধান ৮(৭), Chittagong Stock Exchange PLC. hereby permits Next Generation Back Office (NGBO), Back Office Software of LankaBangla Information System Limited, Address: AA Bhaban, Level-6, 23, Motijheel Commercial Area, Dhaka-1000 as a Back Office Software for the TREC Holder Companies of Chittagong Stock Exchange PLC. This Vendor is qualified to provide Back-Office software service in compliance with the approved guidelines.*

*This permission shall be valid subject to fulfilment of the Guidelines on permission of Back-Office Software Vendors of the TREC Holder Companies of Chittagong Stock Exchange PLC.*

*For and on behalf of Chittagong Stock Exchange PLC.*

Chief Regulatory Officer

Managing Director



# 01 NGBO

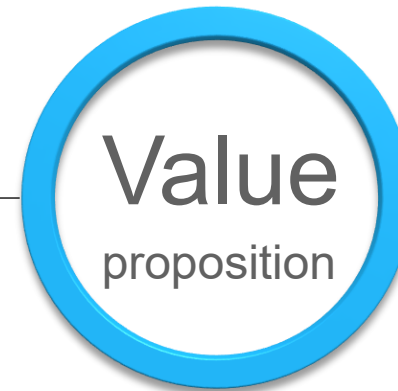
Functional Overview

# 02 Technical

Overview & Infrastructure

# 03 Commercial

Investments best offer



# 01

## Next Generation Back Office Functional Overview



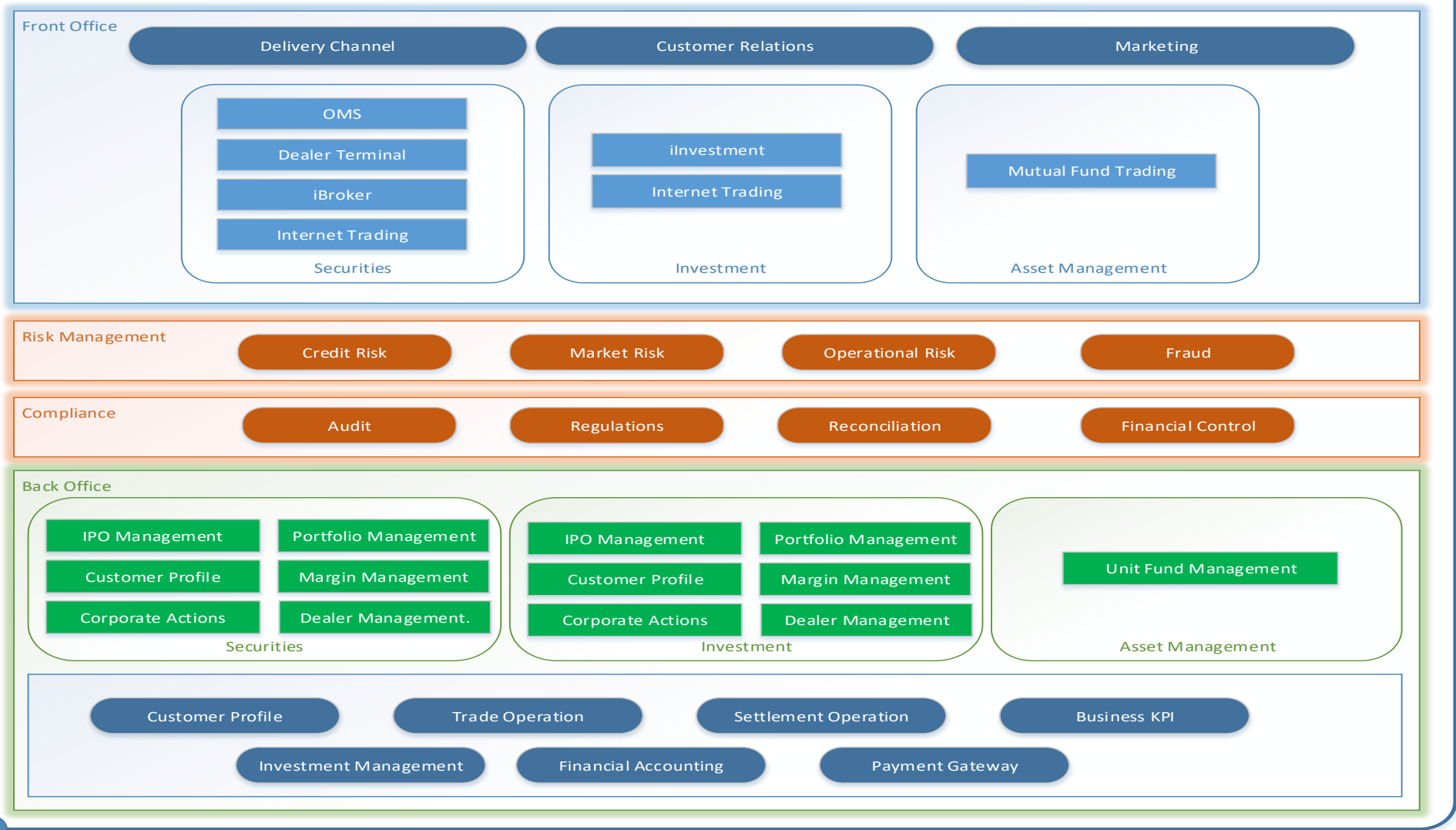
**NGBO** is a  
comprehensive  
Back Office  
Application  
System for  
Capital Market

- Highly modular and integrated application with role based security
- Embedded audit trail
- Checker-Maker-Approval procedure of financial transactions
- eKYC
- API integration with more advance features like notification and alert services
- NID Verification, Screening UNSC, OFAC, EU verification of clients

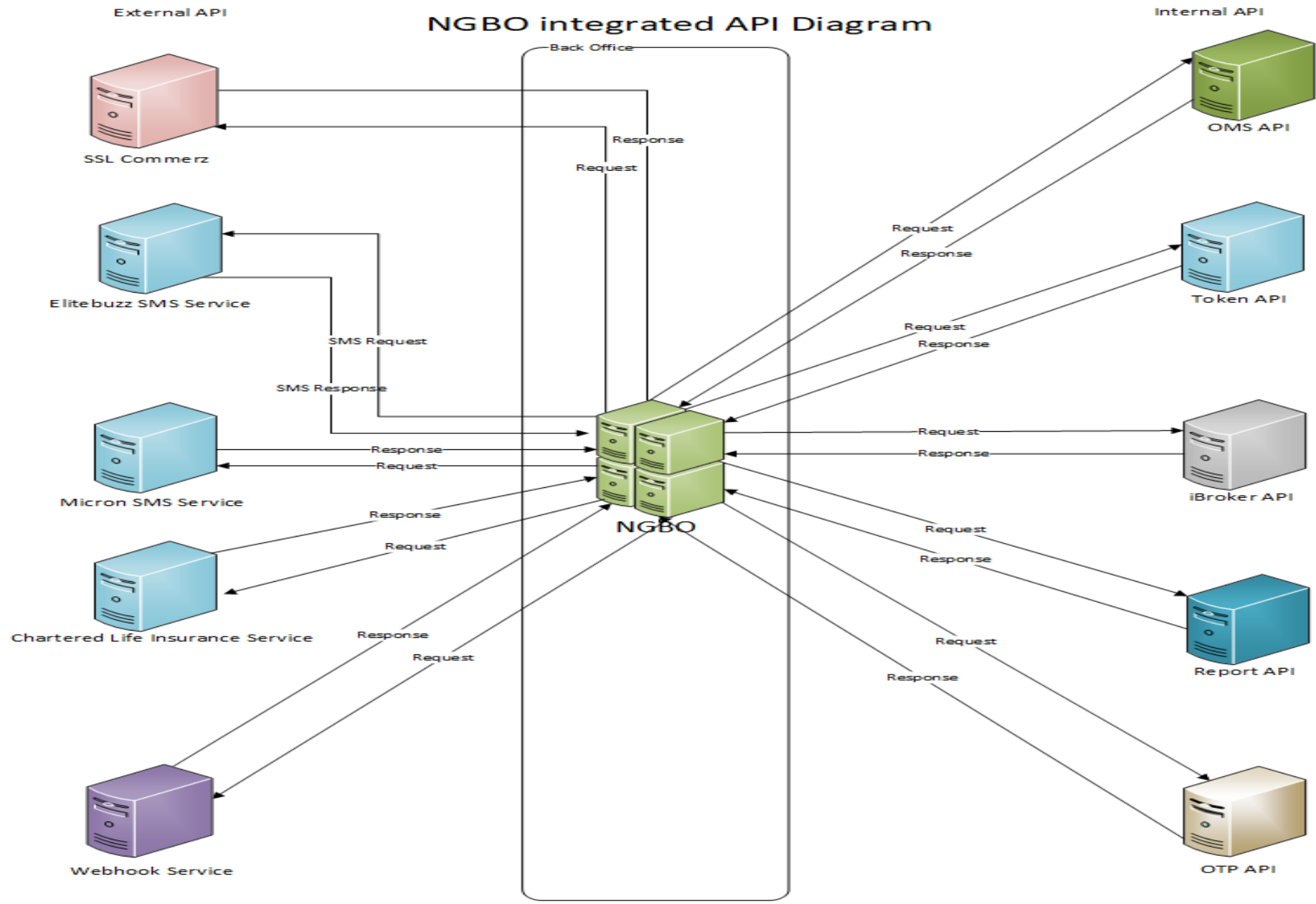
# Next Generation Back Office: Business Architecture



Business Architecture



## NGBO integrated API Diagram



# NGBO

It covers full fledge Back office system automating the administrative and financial work flow to customer account management, user role, eKYC, Finance management, compliance, trade file process, Merchant operation, settlement, all related reports.



FEATURES			
Core Broking Application			
1	Admin and Security Module	8	Financial Transaction
2	Parameter Setting	9	Accounting System
3	Customer Profile	10	Compliance & Risk Management
4	Company, Broker and Branch Setup	11	Email & SMS Notification (SMTP Server and SMS gateway required)
5	Charges and Margin	12	Processes
6	Settlement & CDBL Operation	13	Reports
7	Loan Management	14	Dealer Module



<b>Add-on Modules</b>	
1	<b>Online Account Opening</b> (Required Domain, SSL Certification and OTP engine)
2	<b>NID Integration API</b>
3	<b>eKYC</b>
4	<b>Client Portal</b> (Required Domain and SSL Certification)
5	<b>Dealer Performance</b>
6	<b>e-Commerce Platform API</b>
7	<b>eCRM</b>
8	<b>Real Time Trade Monitoring</b>
9	<b>Business Intelligence (BI) Tools (Analytics &amp; Dashboard)</b> (Required Domain and SSL Certification)
10	<b>Meeting Minutes</b> (MoM)
11	<b>OMS and Back Office API</b>

# 02

## Next Generation Back Office Technical Overview

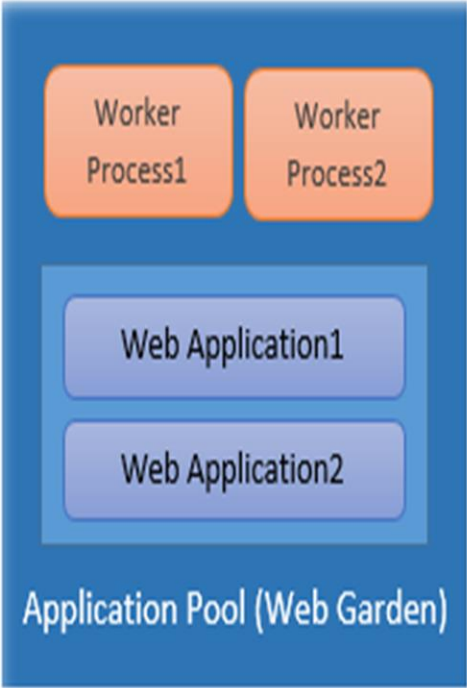


Recommended  
Hardware/Software  
Requirements with



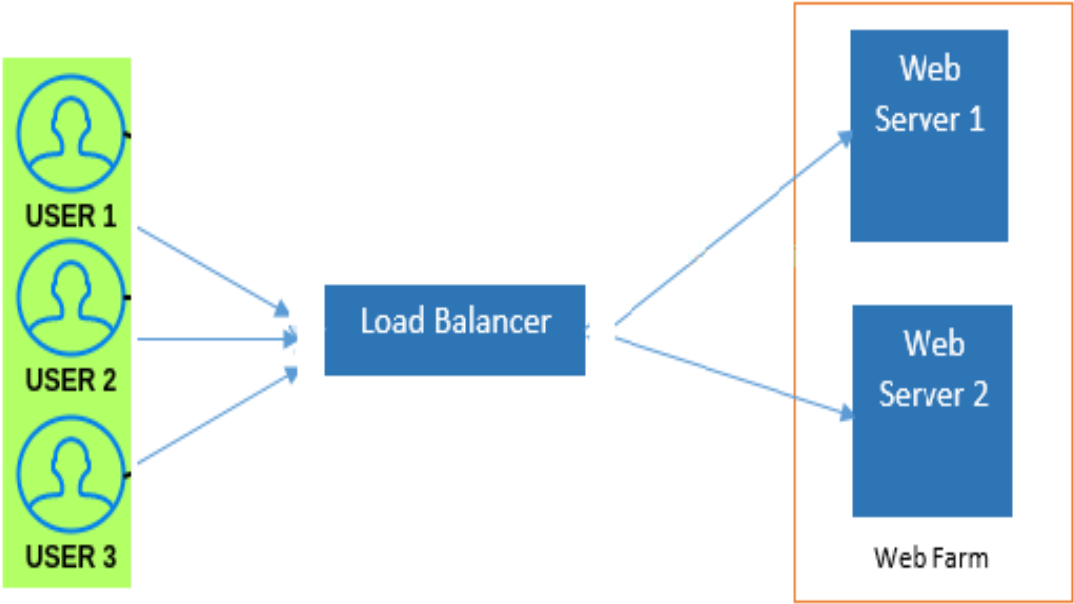
# 1. Server Configuration (Basic)

SL	Server Names	Specifications	Quantity	Remarks
1	Application Server	<b>Processor:</b> Intel(R) Xeon(R) 2.70GHz (2 Processor) <b>RAM:</b> 32 GB <b>HDD:</b> 500 GB or <b>SSD:</b> 500 GB	1	Microsoft Windows Server 2022
2	Database Server SQL Server Database	<b>Processor:</b> Intel(R) Xeon(R) 2.70GHz (2 Processor) <b>RAM:</b> 32 GB <b>HDD:</b> 1 TB or <b>SSD:</b> 1 TB	1	Microsoft Windows Server 2022



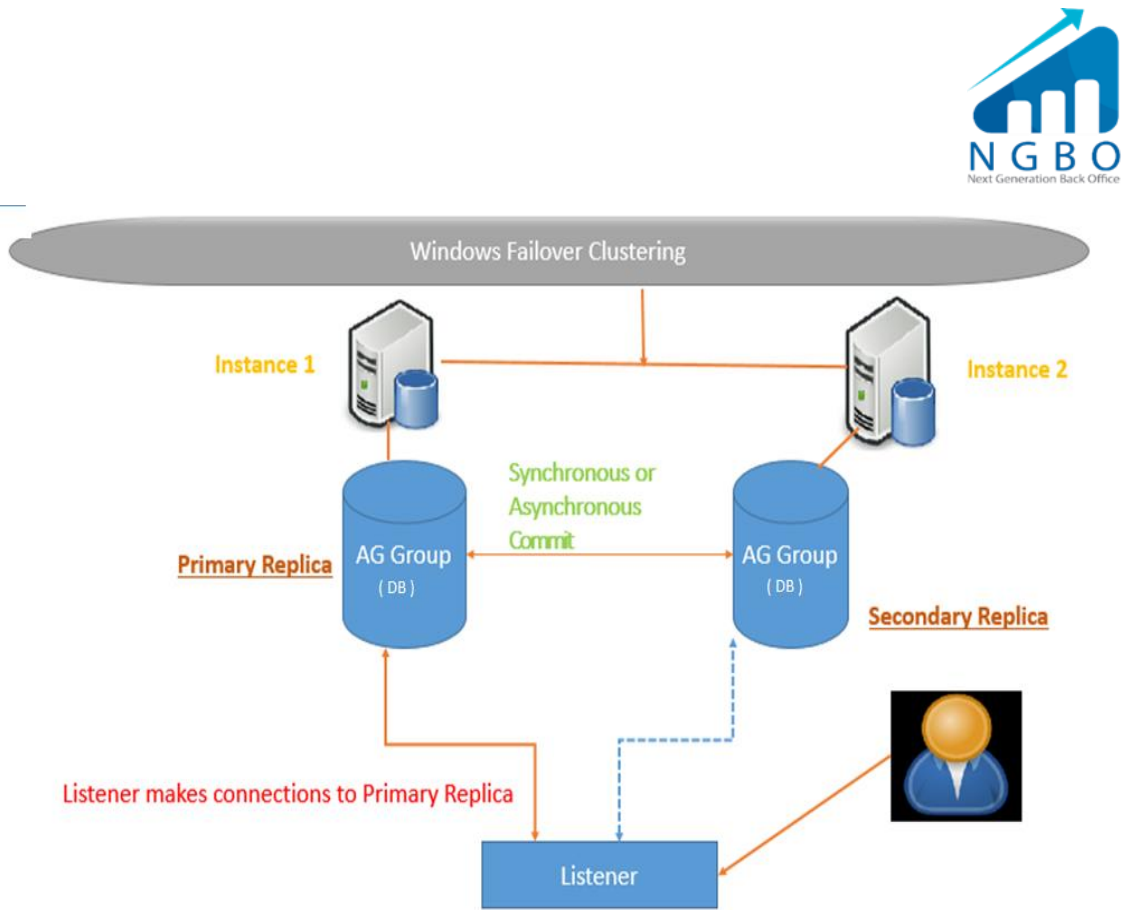
## 2. Server Configuration (Web Farm)

SL	Server Names	Specifications	Quantity	Remarks
1	Application Server	<b>Processor:</b> Intel(R) Xeon(R) 2.70GHz (2 Processor) <b>RAM:</b> 32 GB <b>HDD:</b> 500 GB or <b>SSD :</b> 500 GB	2 or more	Microsoft Windows Server 2022
2	Database Server (SQL Server Database)	<b>Processor:</b> Intel(R) Xeon(R) 2.70GHz (2 Processor) <b>RAM:</b> 32 GB <b>HDD:</b> 1 TB or <b>SSD :</b> 1 TB	1	Microsoft Windows Server 2022



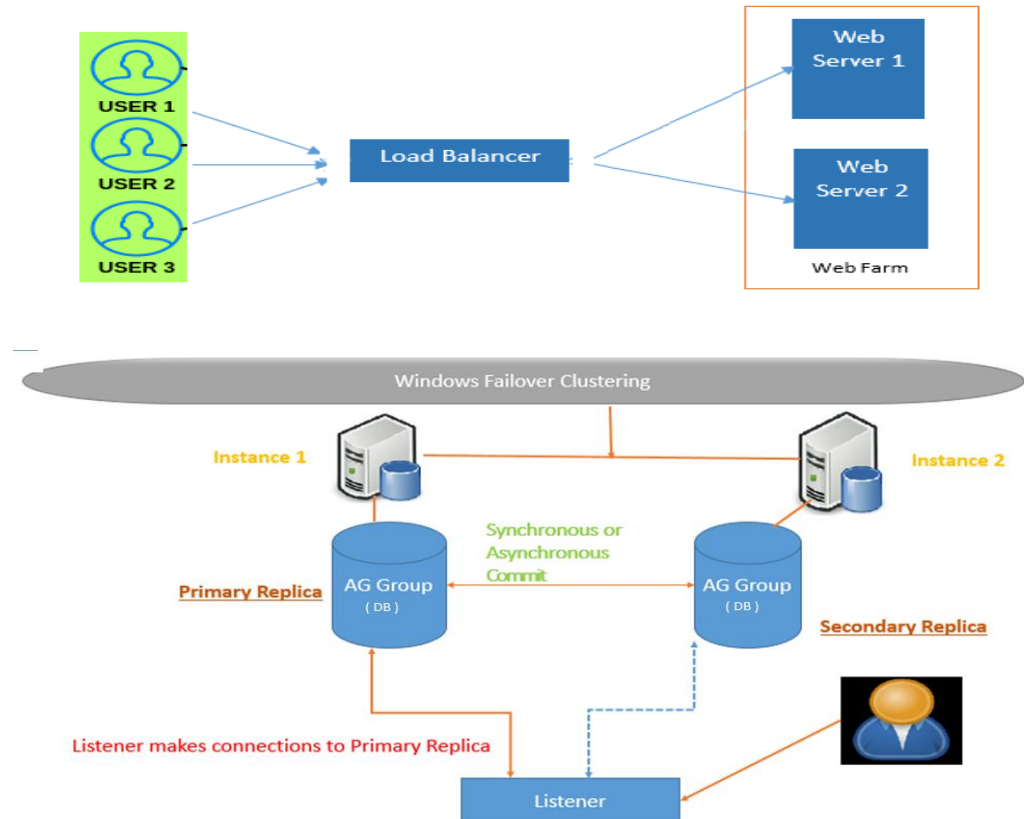
3. Server Configuration ( *Always On High Availability* )

1	Application Server	<b>Processor:</b> Intel(R) Xeon(R) 2.70GHz <b>RAM:</b> 32 GB <b>HDD:</b> 500 GB or <b>SSD:</b> 500 GB	1	Microsoft Windows Server 2022
2	Database Server (SQL Server Database)	<b>Processor:</b> Intel(R) Xeon(R) 2.70GHz (2 Processor) <b>RAM:</b> 32 GB <b>HDD:</b> 1 TB or <b>SSD:</b> 1 TB	2 or more	Microsoft Windows Server 2022





4. Server Configuration ( <i>Web Farm and Always On High Availability</i> )				
1	Application Server	<b>Processor:</b> Intel(R) Xeon(R) 2.70GHz <b>RAM:</b> 32 GB <b>HDD:</b> 500 GB or <b>SSD:</b> 500 GB	2 or more	Microsoft Windows Server 2022
2	Database Server (SQL Server Database)	<b>Processor:</b> Intel(R) Xeon(R) 2.70GHz (2 Processor) <b>RAM:</b> 32 GB <b>HDD:</b> 1 TB or <b>SSD:</b> 1 TB	2 or more	Microsoft Windows Server 2022



( *Disaster Recovery: Web Farm and Always On High Availability* )

# Clear Scope & Schedule

The below table describe the clear-scope as per 6 - Months schedule for proposed NGBO on-premises deployment, at Customer end provided infrastructure.

Months	1	2	3	4	5	6
▪ NGBO Plan & Kick off	●					
▪ NGBO Setup		●				
▪ Data Migration			●			
▪ On-Site Trainings & UAT				●	●	
▪ System Ready						●

● **Note:** Project timeline to be defined based on requirement gathering discussions and customer decisions.

## Month 1: Plan | Build

NGBO provision 1-Month for Customer team to be guided for System infrastructure readiness and upcoming System setup plan, build and engagement mobilization planning.

**Month 2: System Setup** Execution activity will start from the infrastructure provision by Customer for preparation of server-side setup which includes basic data input, master data configuration, verification of basic data, getting user details and entitlements and creating user and entitlements as per the matrix provided.

**Month 3: Data Migration** Post setup and build completion, Data-migration starts by agreeing on the data that needs to be migrated. Based on that, migration scripts will be written, executed and reconciled with the help of Customer end users.

**\*However, Data Migration depends on data dictionaries, accessibility, validation and verification from End Users.**

## Month 4-5: User Training & Testing

These two (2) important months will be utilized for establishing the Customer key-users part of the system familiarization and full knowledge transfer. The training schedule will be shared prior to so that the concerned team members will make themselves available. Work also includes overseeing Customer IT completion of client-use installations with all prerequisites at the client machines for the installation of the NGBO Software. Once LBIS-team assures all Customer-team-users including executive management are equipped with the right software and knowledge, LBIS invites all the key-users for hands on testing and UAT-sign-off.

**Month 6: Parallel Run & Go-Live** This part of the deployment cycle is where a production Parallel Run will start. On daily basis the new System will be reconciled with any issues as get rectified, and NGBO live-usage as solo-readiness gets signed-off as system production-run.

# 03

## Next Generation Back Office

### Commercial Investments



#### 1: Core Broking Application [ One-time Cost ]

NGBO Software on-premises Deployment [ 6-Months]	BDT 30 lacs
Data Migration from Existing system	BDT 08 lacs
***No Cost will be applicable [ if no migration and use Cut off balance ]	

## 2: Add on Modules

1. Online Account Opening	BDT 3 lacs
2. NID integration	BDT 1 lac
3. eKYC	BDT 2 lacs
4. Client Portal (App & Web)	BDT 25 lacs
5. Dealer Performance	BDT 2 lacs
6. e-Commerce Platform API	BDT 1 lac
7. eCRM	BDT 2 lacs
8. Real Time Trade Monitoring	BDT 2 lac
9. Business Intelligence (BI) Tools (Analytics & Dashboard)	BDT 15 lacs
10. Meeting Minutes (MoM)	BDT 4 lacs
11. OMS and Back Office API	BDT 5 lacs

### Business Friendly Payment Terms:

**Core Broking Application:** 50% on Confirmation | 50% on User- Acceptance Signoff

**Add on Modules:** offering will be charged implementation basis



# Recurring Investments:

## Annual Maintenance Cost

**FULL Software Maintenance & Standard Support of NGBO Software Licensed to Customer for all Modules**

**20% of total cost**

## Optional : Additional Professional Services , as and when required

**Additional actual efforts (after Deployment), customizations/integrations or any efforts shall be charged based on firmed man day rates**

On-site man-day rate:  
BDT 8000/man-day

Off-site man-day  
rate: BDT  
4000/man-day

# Validity of Proposal:

Validity of this offer is marked to **31st December 2024** for Customer Confirmation to the convert this offer to Order.

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