

**FLORABANK**

ONLINE CORE BANKING SYSTEM

DIGITIZE.  
EMPOWER.  
TRANSFORM.



The

**Metamorphosis**

of the banking  
sector

# Transformation of banks into **digital** business

The system has been developed under service oriented architecture concepts. The solution creates value through back office SILO management, integration, and aggregation of legacy systems and non-standard in house shadow systems. The solution can handle huge number of transaction volume including manual and system generated. The core banking solution supports DRS and clustering solutions for hassle free operations during the failover of the central site. On the other hand, according to Rafiqul Islam, growing concerns in the retail-banking arena include data breaches, identity thefts, and malware epidemics.

"BANKS HAVE PLENTY OF DATA BUT THOSE ARE PROCESSING FOR TRANSACTIONAL ACTIVITY ONLY - WE HAVE INITIATED A PLAN TO CREATE BANKS AS DIGITAL BUSINESS."

"The complexity of today's security system make domain perimeters tough to penetrate from the outside and that is the reason for professional criminals to take advantage of human nature's proclivity to trust via social engineering tactics," he adds. "The software developed by Flora use contemporary state-of-the-art world class technology with robust security features. "The system was developed under standard framework and the company assists clients achieve their objectives through Flora's bespoke delivery models and methodology that deliver superior performance management. "Our implementation process consists of four layers of communication mechanism within the client groups-creating security awareness in digital environment, training for the user groups with security concerns and educating senior people to understand the security impacts," explains Rafiqul Islam.





# Our Essence for **accelerated** growth

We believe in Blue Ocean Strategy authored by Renee Mauborgne and W.Chan Kim. Blue Ocean Strategy denotes the unknown market space, untainted by competition. In blue oceans, demand is created rather than fought over. There is ample opportunity for growth that is both profitable and rapid. In blue oceans, competition is irrelevant because that rules of the game are waiting to be set. Blue Ocean is an analogy to describe the wider, deeper potential of market space that is not yet explored.

## Who we are

Flora Systems Limited was incorporated as a Private Limited Company in September 1998. It is an active member of Bangladesh Association of Software and Information Services (BASIS), Member # G-032. It has received ISO Certificate in recognition of its Quality Management System and Information Security Management System which complies with ISO 9001:2008 and ISO 27001:2003 respectively. The scopes of activities covered by these certificates are in Design, Development & Maintenance of Application and ensure a proper information security system.

## Our services

Multiple Services we provide, are high in quality, time bound, cost effective, well process oriented and secured in nature. They add value to your organization by giving you a high, early return for the money invested.

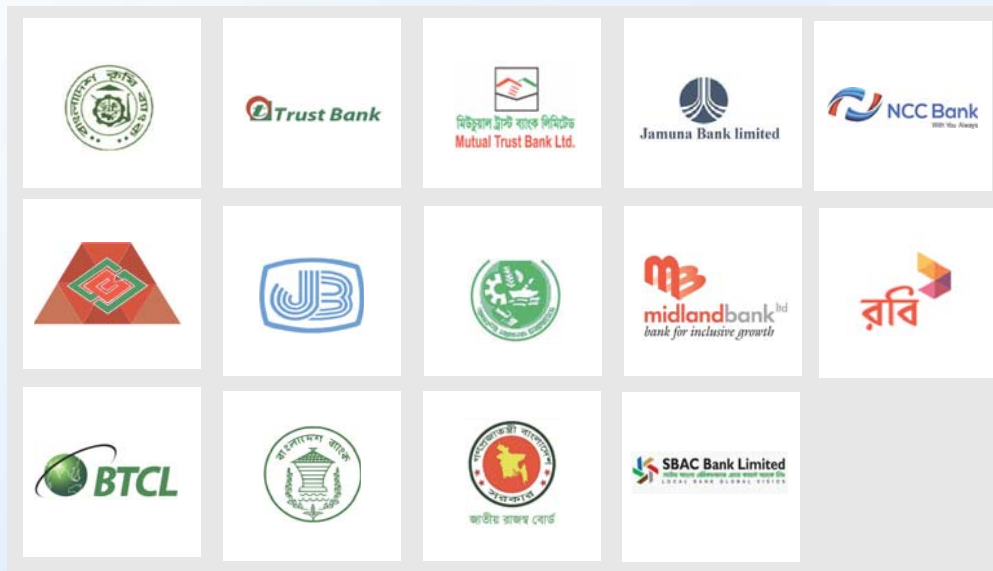
## We offer

- On-line Real- time Core Banking System
- Business Process Outsourcing (BPO) services
- Data Entry Services
- Offshore Software Development
- Form Processing
- Rebate Claim Processing
- Mass Scanning / OCR
- Order Processing
- Consultancy
- E-Commerce
- Web Page Development
- Financial Inclusion





# Our **valued** customer



## Technology partners



## Products

Our flagship products are:

- FloraBank (Online Banking Software)
- Privilege Banking
- FB Exchange
- Flora Agent Banking
- Flora Intelligence (BI Tool)
- Offshore Banking
- Treasury
- BFTN
- CIB
- RTGS
- Internet Banking
- Islamic Banking
- Flora Mobile Banking Solution
- BACH
- Flora ERP





# Customer **centric** innovation

## FloraBank's journey

FloraBank (FB) has established its presence in era of banking system with salient upshot in terms of operational, technical and financial points of view. Started its journey in 1998 with the automation of branch banking in a Local Bank (Janata Bank). After that, seventeen (17) years have been passed, and truly it achieved the esteem of satisfaction by introducing automation of over nineteen hundred (1900) branches in nine (9) banks throughout the country with the essence of well-recognized industry expertise, strong corporate values and an impressive track record. The customer centric state of mind and innovative on-going business analysis for new and up-coming banking products are the core strength of FB's Success.

FB is a simple modular based CBS, allows you to start with a set of modules (basic) and add on more modules as your business growth. On the whole, FB is an on-line, real time, centralized core banking software which is providing the solution of corporate banking, retail banking as well as Islamic banking product. FB is capable to handle more than 1000 (one thousand) branches. It is running well and minimum bandwidth 256 kbps over the network up to 600 latency. Moreover, it provides a complete integrated, highly secured and scalable database, data ware housing, data mining, and data encryption with high performance.

## Technical specification

### ■ Operating System for Central Server

- Windows 2003 or higher
- Unix/Linux

### ■ RDBMS

- Open RDBMS architecture
- SQL Server
- ORACLE

### ■ Front-end Application Tools

- ASP.Net
- C#.Net
- Java script
- C++
- VB

### ■ Web Server

- IIS
- APACHI

### ■ Operating Systems for Client Machine

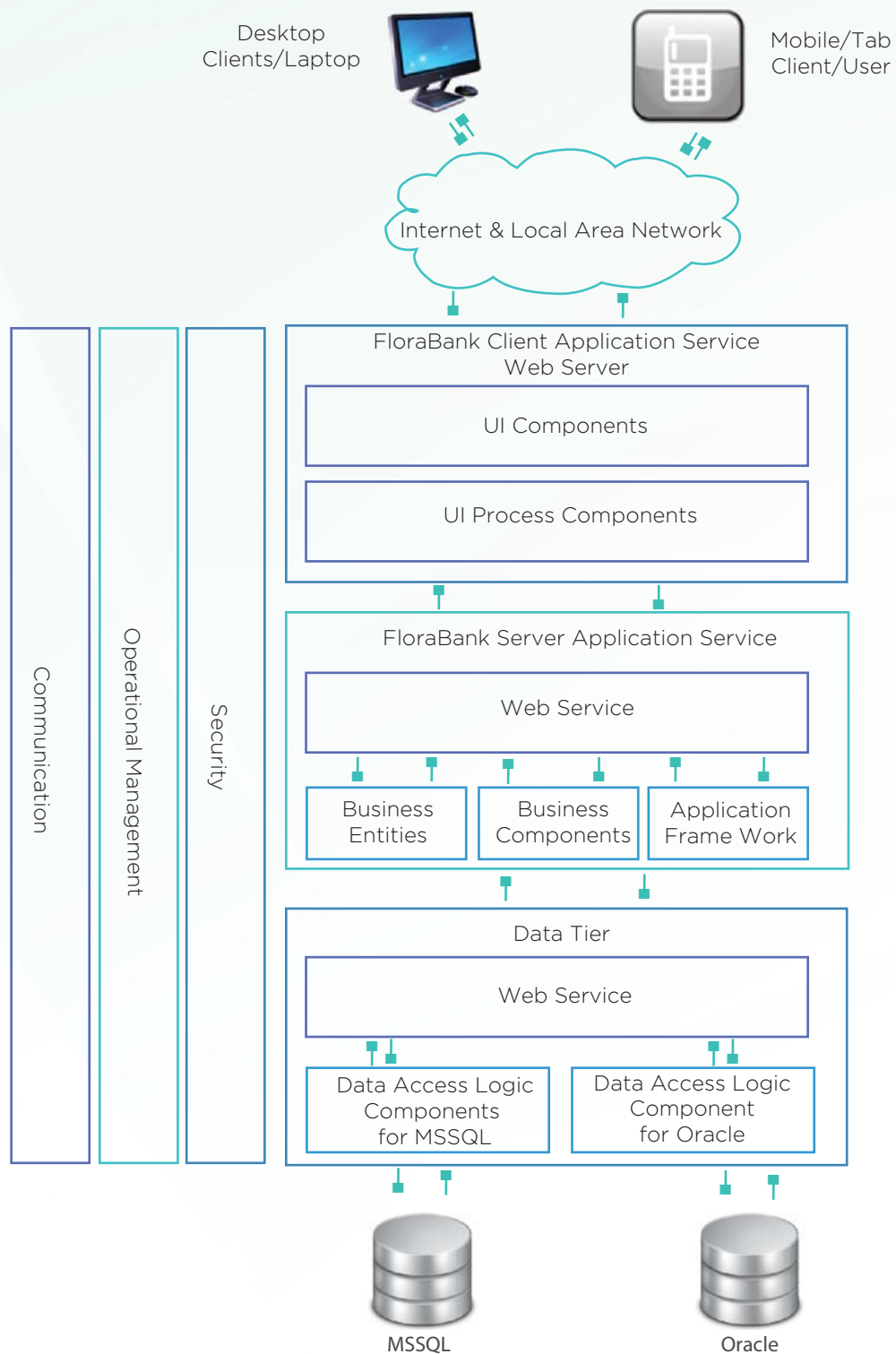
- Windows 2003 or higher
- Linux and UNIX

### ■ Browser for Client Machine

- Internet Explorer
- Opera
- Mozilla Firefox
- Google Chrome
- Safari



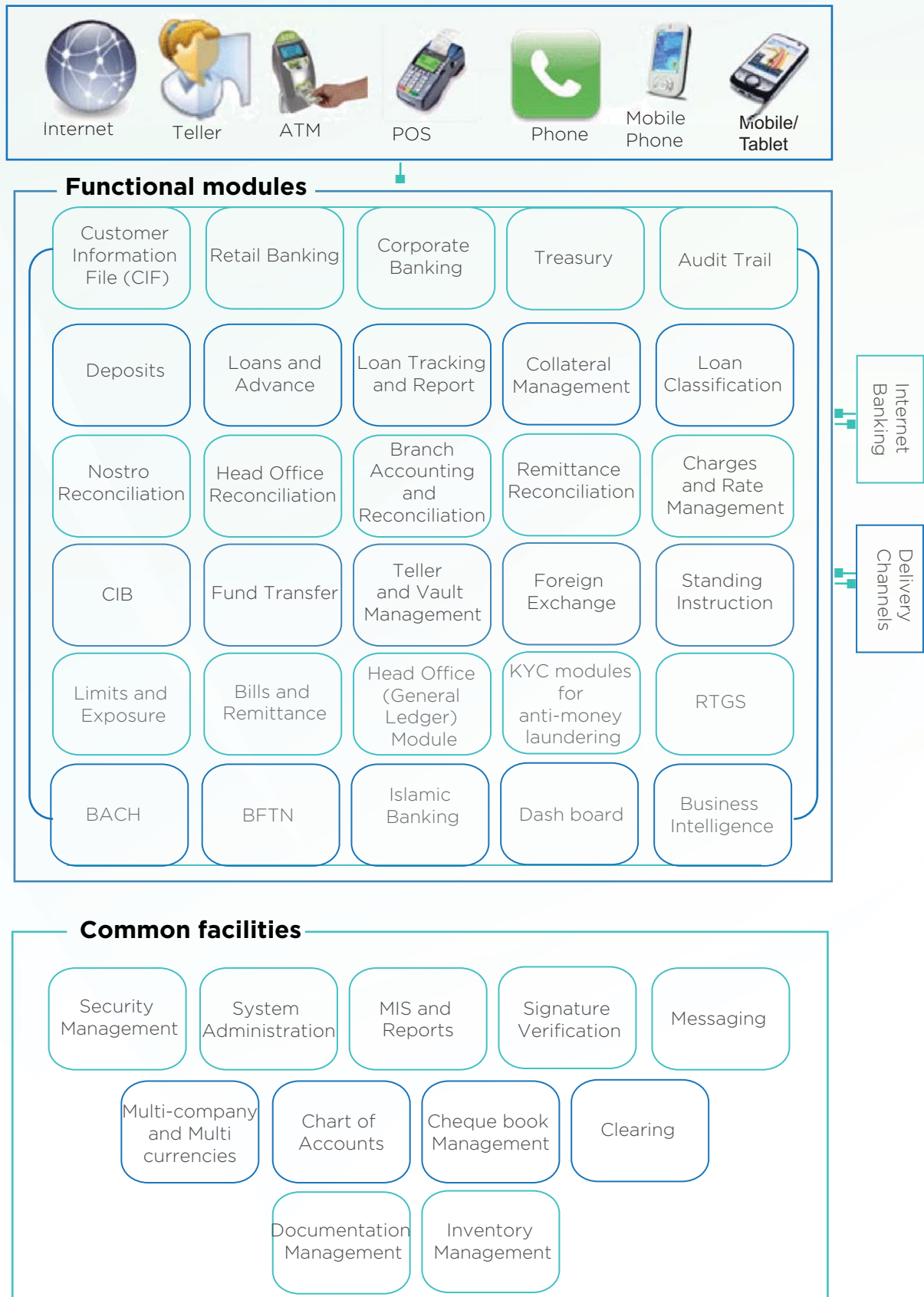
# Process architecture







# Functional architecture








# Security **management**

Security Management is very strong and highly effective feature of FloraBank. We have considered the following:

- Operating System Security
- Database Security
- Network Security
- Support 3rd party Security (VerySign)
- Transaction Time Limit
- Application Level Security
  - Transaction Based Security
  - Role Based User Security
  - Biometric User Login Security
  - Account Level Security
  - Critical Data Encryption
  - Two Factor Authentication
  - Multiple Finger Enrollment
  - Transaction Time Set up
  - Client Laptop/ Desktop enrollment
  - User activity management
  - Maker Checker Facility
  - Strong audit lock
  - Transaction Time Limit
  - Database audit log
- Security as per Central Bank



The image shows a login interface for FloraBank. At the top, it says "Login". Below that, it instructs the user to "Fill out the form below to login to FLORABANK Web application". There are two input fields for username and password, both masked with dots. Below the password field, there is a checkbox labeled "Use Biometric" which is checked, and a small image of a fingerprint scanner. To the right of the biometric section is a blue "Login" button. At the bottom, the FloraBank logo and "Online Banking Solutions" are displayed.



# Functional modules

## Customer information file (cif)

CIF is the Customers Information File of FloraBank. CIF are integrated with all others module like Retail & Corporate Banking, Remittance, Foreign Exchange and Swift Module. Customers is identified by unique code which is auto generated by this system. This customer code is used in the whole function of the customers where is necessary. The following are covered in the CIF function

- Customers Group Maintenance
- Basic Customers Information
- Money Laundering
- KYC information
- Customers group position
- Customers limit and Group Limit
- Capture of Signature and photo graph
- Capture of Image (Documents)
- Link to other applications Etc.

## Retail and corporate banking

Corporate and Retail Banking modules offer banking products and services to corporate and retail clients through various channels. Retail and Corporate Banking features are customized in such a way to optimize strength of best-fit, effective solutions across the core banking practices. This solution also empowers banks to provide their corporate and retail customers anytime anywhere access to real-time consolidated information.

## Features of retail banking

- Product define (Retail Banking)
- Product opening
- Product authorization
- Loan scheduling
- Loan disbursement
- Loan recovery
- Loan re-scheduling
- Early settlement
- Partial settlement
- Disbursement reversal
- Reports

## Features of corporate banking

- Product define (Corporate Banking)
- Limit load
- Product opening
- Product authorization
- Loan disbursement
- Monthly provision calculation
- Periodical interest posting
- Recovery
- Reports



# Functional **modules**

## Deposits

The FloraBank Deposit System is a full multi-currency retail deposit system, which provides for a wide range of account types and service facilities. New account types are simply added by use a parameter tables where the user sets the conditions for operation of that account. The types of deposit are described into the following

### Cheque deposit

The following are covered in Cheque Deposit

- Deposit A/C Opening
- Cheque issuing
- Transaction facilities
- Blocking facilities
- Signature Capture, Display, & Verifications
- Interest calculation
- Deduction of charges
- Dormant marking
- Back value calculation
- Transaction Processing (TP) for anti-money laundering

### Term deposits

The following are covered in Term Deposit

- A/C opening
- Due date diary
- Interest Calculation
- Interest payment to cheque A/C
- Lien facilities
- Signature Capture, Display, & Verifications
- Balance blocking
- Pre-matured encashment
- Etc.

### Recurring deposits

The following are covered in Recurring Deposit:

- A/C opening
- Installment deposit facilities
- Standing instructions for installment deposits
- Pre-matured encashment
- Interest Calculation
- Lien facilities
- Defaulter's list
- Etc.

# Functional **modules**

## Loans and advance

The Loans Module automates transaction processing for a variety of loan types and products, including:

- Continuous loan
- Term loan
- Project loan
- Transport loan
- Staff loan
- House building loan
- Syndicate loan
- Hire purchase
- Temporary over draft

## Loan processes

- Loan appraisal
- Limit setup
- Disbursement
- Repayment
- Scheduling
- Securities (Like Collateral security, Primary security)
- Early settlement
- Guarantor information

## Treasury module manages

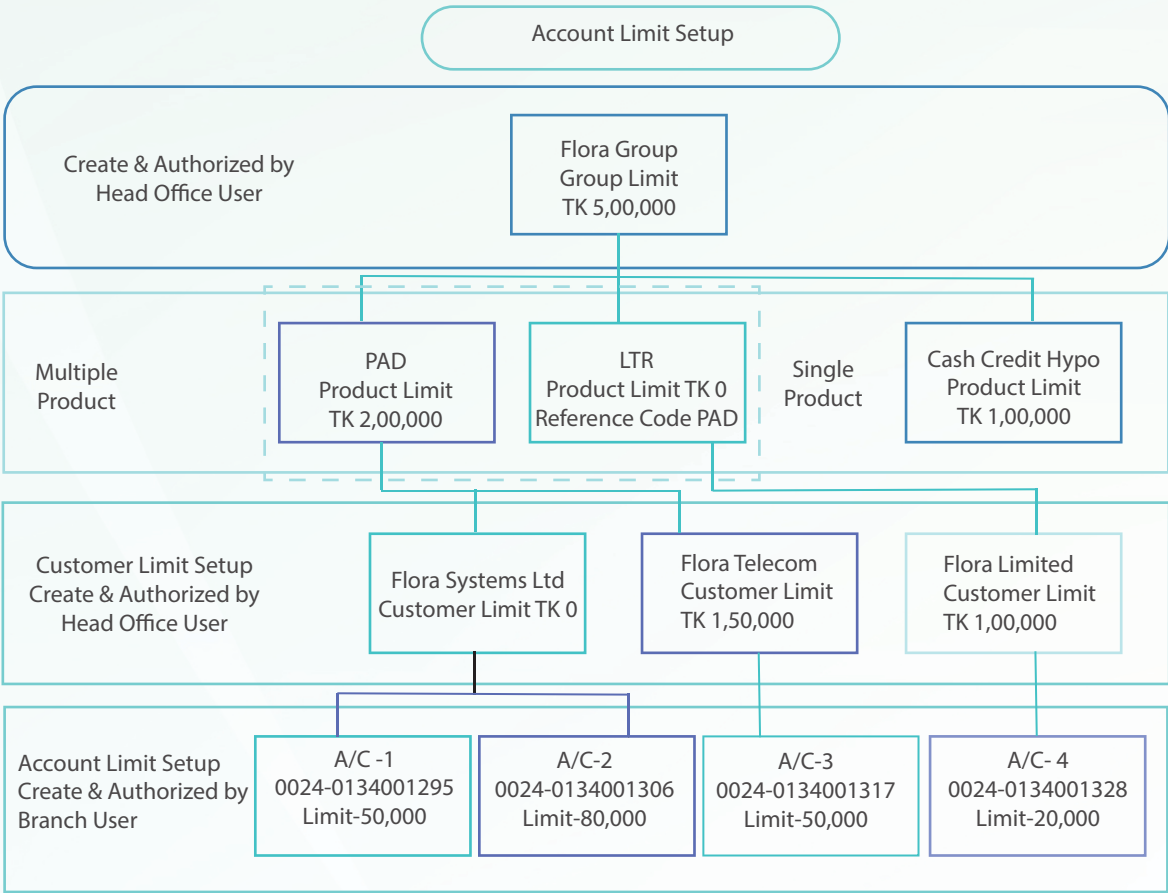
Foreign-exchange dealing, money market, Treasury bills and bonds etc. The system can feature an interface that receives market rates and prices from external sources. The system provides ongoing information about the profitability and risk. It automatically matures and settles deals, and is capable of handling various types of instruments available in the financial market. The following are covered in Treasury Functions.

- Treasury Nostro A/C
- Treasury Nostro A/C Reconciliation
- Front office
- Back office
- Treasury Bill and Bond
- Treasury Deal
- Money market

## Collateral management

FloraBank have the facility to capture the collateral securities which is linked to the loan account. It is also captured the category of collateral, value of collateral, force value, detail description and location of collateral.

# Functional modules



## Limits and exposure

This feature is initiated through a facility being given by the bank to a customer to ensure the customer works within a framework of credit approved by the bank. The structure of his facility is defined by the bank's analysts according to business rules in place. For example, one

facility structure may be designed for a retail customer in local currency while another facility structure may be for a business customer and set in a foreign currency.

# Functional **modules**

The products associated with these structures would of course be different. Each facility structure is defined in FloraBank as a template. The construction of the templates is flexible and is defined by the bank via the parameter system with the ability to establish multiple templates. After a customer has been given a facility, limits are then set up for the different levels within the hierarchy.

Limit modules covered the following:

- Individual Customers Limit
  - Local Currency
  - Foreign Currency
- Customers Group Limit
  - Local Currency
  - Foreign Currency

Limit modules can be controlled by centrally (credit division) or by branch. For better monitoring of credit activities, system should process the limit modules in centrally.

## **Bills and remittance**

These modules are fully automated with our banking software. There is remittance issue parameter setup into the system administration module to operate this module. The parameter is defined to calculate commission, Vat and tax. And also define GL integration and inter-branch Transaction account number to integrate into GL module. In case of transfer transaction, customer account is auto debited through transaction level security. A set of auto voucher are generated during the issuance of Remittance like DD issue, TT issue etc. System support both local and foreign currency remittance. The Bills and Remittance cover the following sub-modules:

- Demand Draft (DD)
- Telegraphic Transfer (TT)
- Mail Transfer
- Pay Order (PO)/Pay-slip
- Security Deposit Receipt (SDR)
- FOBC (Foreign Outward Bill )

## **Functionalities of issuance of remittance**

- Instrument maintenance
- Issue
- Settlement/adjustment
- Issue Register
- Outstanding Register
- Printing of Instrument
- Stop payment
- Duplicate issue



# Functional **modules**:

## Foreign exchange

Foreign Exchange module is very a strong and flexible Module with in the FloraBank software, which support every aspect of swift message format. Foreign Exchange module is developed based on swift standard due to interface with swift alliance. Foreign Exchange operations are integrated to the front office, back office and swift alliance. Such as opening of LC (Letter of credit) generate total set of voucher, and swift 700-message format. It includes following modules:

- Import Cash LC
- LC amendment
- Shipping Guarantee
- PAD
- LIM
- LTR
- Master/Export LC
- Master/Export LC amendment
- Back-to-back
- Back-to-back amendment
- Shipping Guarantee
- ABP (Accepted bills for payment)
- LC Transfer
- EDF
- EXP
- FDBC
- LDBC
- FDBP/IFDBC
- LDBP/IBP
- Bill of Exchange

- Bills of Entry
- Foreign Remittance
- Bangladesh Bank Schedule
- FC buying and selling
- TC buying and selling
- Wage earner development bond
- Outward remittance for education
- Foreign Draft/Cheque Collection

## Accounts and finance

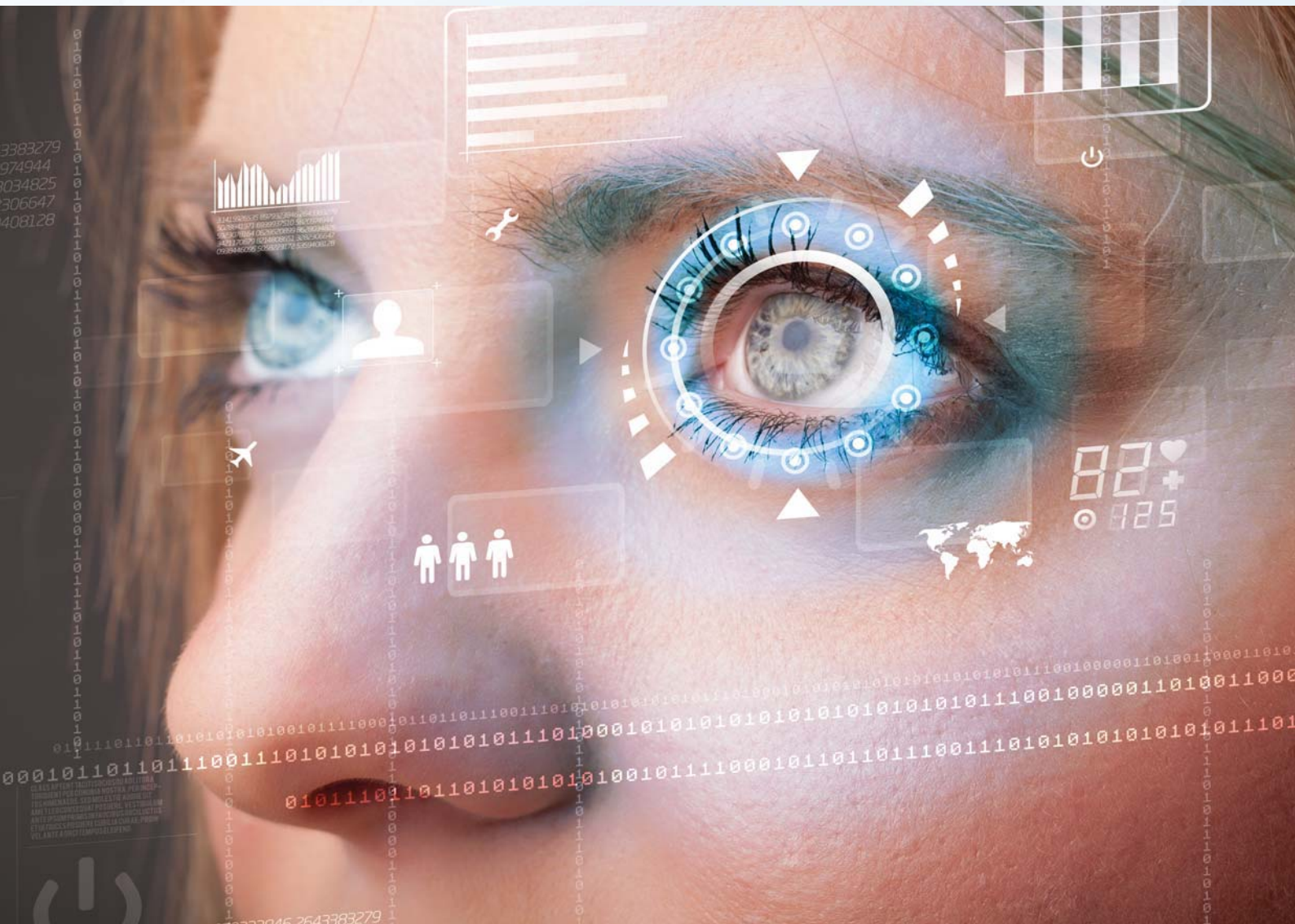
The following are covered in Accounts and Finance:

- General Ledger
- Cash flow statement
- Balance sheet
- Trial Balance
- Profit and loss statement
- Etc.

## Local remittance

The following are covered in Local remittance:

- Demand Draft (DD)
- Pay Order (PO)
- Etc.



# Key:features:

The key features of FloraBank are listed into the following:

- Biometric verification
- Modular Based Technology
- N-tier Architecture
- Multiprocessing
- Highly Scalable
- Extensive Parameterization
- Signature verification
- Security management
- System administration
- Multi-currency
- Multilevel Chart of accounts
- Fund transfer
- Sweeping facilities
- Cheque book Management
- Clearing with central bank
- System generated voucher
- Maker and checker functions
- Guarantor information
- Primary security
- Documentation management
- Inventory Management
- Interface with third party
- Audit trial
- Interfaces:
  - Delivery channels (ATM/EFTPOS support, Internet banking, Phone banking)
  - Interface with salary system
  - Electronic Messaging
- MIS Reports
- Islamic Banking Products
  - Deposit Product for Islamic Banking
  - Foreign Currency Deposit Product
  - Investment product for Islamic Banking

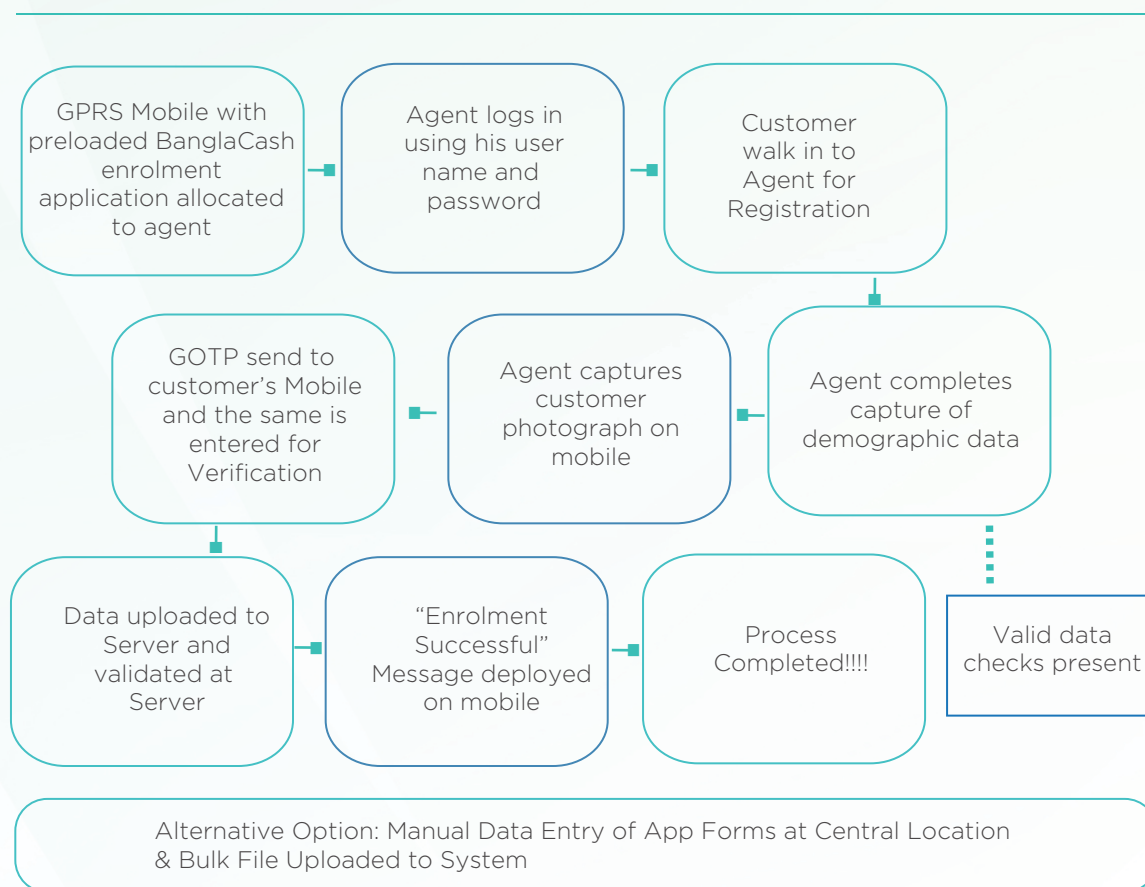




# Mobility and beyond

## Mobile based and card based financial inclusion solution

Offering Technology and logistical support to the Banks and other financial Institutions through an organized mobile based and card based Financial Inclusion platform to the end customers. To offer a comprehensive platform we have tied up with the biggest operators in India: FINO

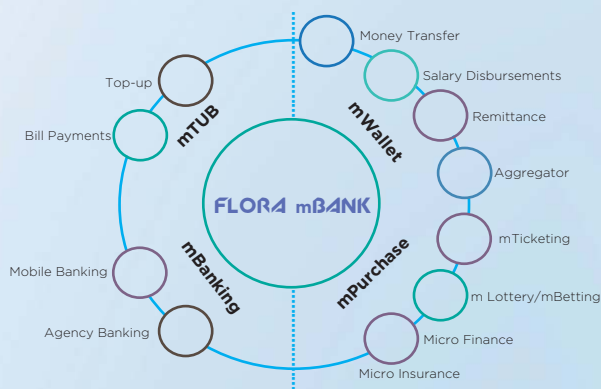


## Offerings

- Being the premiere ICT Company in Bangladesh, we offer the most updated and organized financial inclusion to the banks and other financial institutions.
- We offer a utility mixture of software and hardware to enable its clients to run a robust operation involving and clearing the unbanked population of Bangladesh.
- We are also equipped to manage the resources required to run a robust FI operation.

# Mobile **banking**

Flora mBank is an integrated with (Flora CBS) web based mobile banking system. This solution combines both mobile banking platform to maintain the mobile accounts, and telecom platform to connect to mobile operators. Flora mBank offers a comprehensive set of features to build a mobile banking, agent banking and payment system including banks, aggregators, distributors, agents, customers and payment affiliates. Customers and agents can access the services using their mobile phones (USSD, Apps). It also allow rich web and stand-alone application interfaces for other users such as bankers, aggregators, distributors, payment affiliates and merchants.



## Mobile money for subscriber

- Send and Receive money easily with/without using any banks Services.
- Easy user registration and KYC process to active Wallet on mBank system

Host of service for users from a single wallet:



- Wallet to Wallet Transfer
- Wallet to Bank Transfer
- Merchant Payment
- Top-up
- Utility Payment
- Ticketing

## Easy mobile money transfer steps

## Key features

- Customer Registration
- Cash In
- Cash Out
- P2P, P2B, P2G
- Mobile Top' up
- Utility Bill Payments
- Salary Disbursement
- Remittance
- Balance Inquiry
- Merchant Payments
- Mini Account Statement
- Taxi Cab fare transaction
- School/University/Coaching center fee
- Insurance Premium, Loan Installments, e-top up for mobile phone, E-Ticketing & DPS Payments (Person to Business)
- Dividend and Refund Warrant Payments (Business to Person), Elderly Allowances, Freedom Fighter Allowances & Subsidies (Government to Person)

# Agent **banking**

Flora Agent banking system is an integrated, biometric and chip-card based solution, which is very secure and accessed through Agents equipped with simple devices.

The Agent Banking solution being hosted by Flora Systems is the world's leading solution in terms of its robustness, security features, ease of access and agent management.

## Key features

- Mobile phones with camera with enrollment application to support KYC
- Biometric hand-held transaction devices
- Smart cards with photo identification
- Computer/laptop for mass enrollment
- Integration with core banking application using standard web service
- Agent's account management for no-frill accounts
- SMS based notification for every transaction
- Scalable to support ATMs, Internet Banking & Mobile banking platform etc.
- Customer will be transaction using debit card number

## Products managed by flora ABS

- Saving Account – Cash-in, Cash out, Balance enquiry, mini statement etc.
- Utility Bill Payment
- Fund Transfer (Account to Account & Domestic Fund Transfer)
- Credit Card Bill Payments
- Installment payment of Loan
- Institute Fees Collection
- RTGS Instruction Facilities
- Stop Payment Instruction
- Pay-order & Standing order instruction
- Internet and alert banking request management
- Request management for ATM Card, Cheque Book
- Account Statement Request for Hard-Copy
- Static data changed request-Account Name, NID, DOB, etc.
- Clearing Cheque Management
- Insurance – premium payment
- Mobile Top-up
- Agent Master and backup refill Account Management
- Agent Transaction Limit Management-Daily & Monthly
- Agent Commission Management-(Instant, end of the day, monthly etc.)
- Request management for ATM Card, Cheque Book
- Agent Target Management
- Customer Transaction Limit Management
- Parameterized multiple verification mode (biometric, OTP, Password, Both) for Agents & Customers
- More exclusive reports for Agent and Bank
- Monitoring dashboard both for Agents and Bank
- Agent Transaction Limit Management-Daily & Monthly

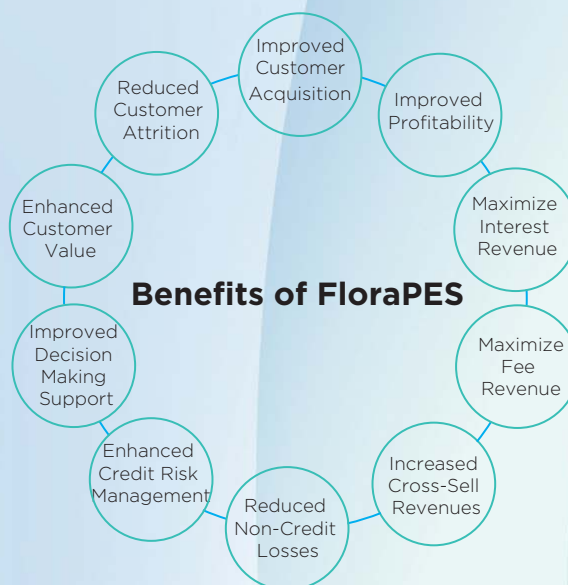
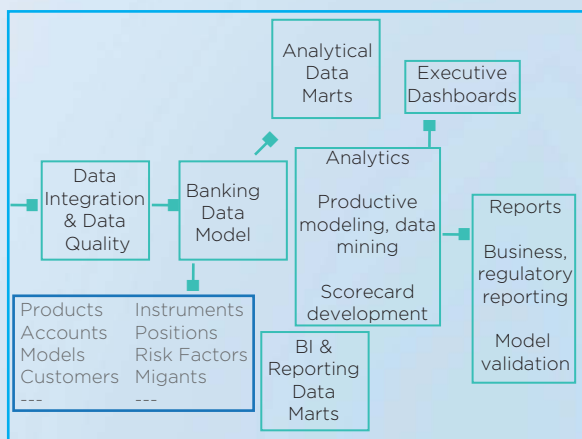
# BI tools & **dashboard**

Flora BI very user friendly and highly effective analytical web based tools. Management can get the following sophisticated and very important output in an organized way and within very short time which is very useful to know the overall performance of bank and helpful in decision making.

Management can also produce reports on the fly for salespeople to identify and contact important accounts. Consolidate data from multiple operational systems - e.g. deposits, loans, treasury etc. and make it easily accessible for analytics and reporting, so management can make decisions based on reliable analysis, not "gut feel."

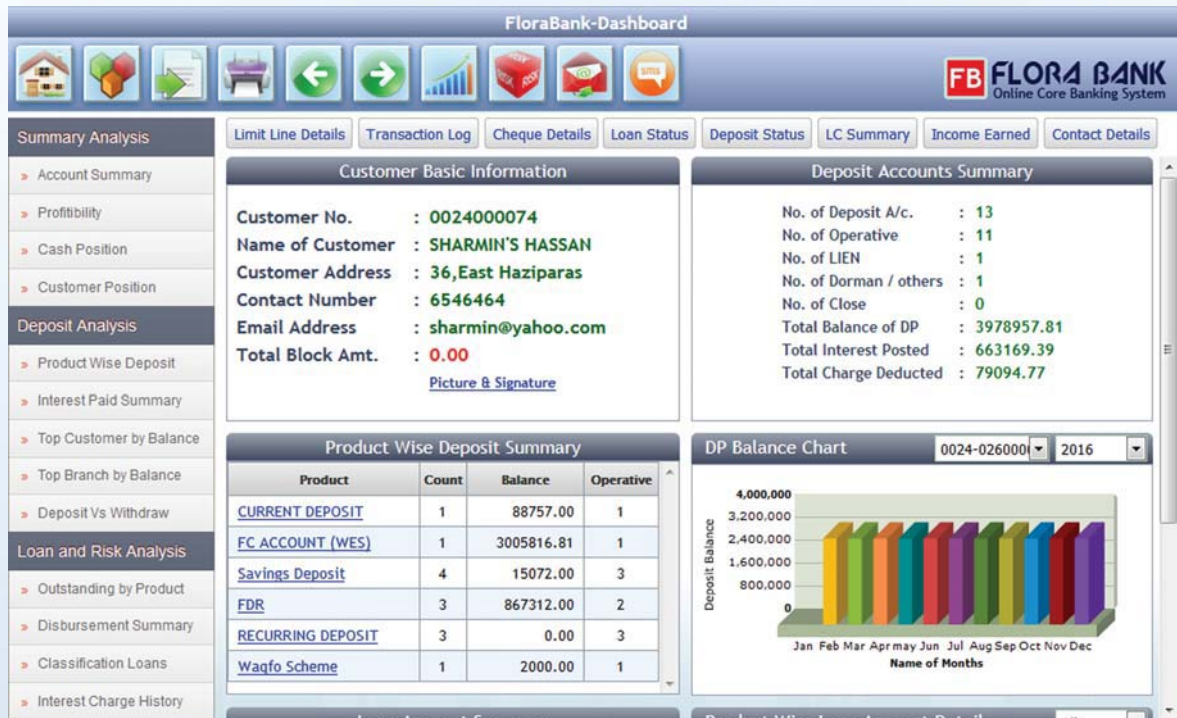
## Benefits

- Provide clear, structured information to management
- Gain a complete, integrated view of all your enterprise data
- Eliminate overlapping tools and systems with one solution
- Comparative Performance Evaluation of Individual KPI of Each Branch
- Graphical as well as Tabular Analysis
- Branch Wise Different Ratio Analysis and Comparative Growth Rate
- Overall Performance Evaluation & Comparative Status of all Branches
- Policy Implication (Projection & Expectation based on Trend Analysis)

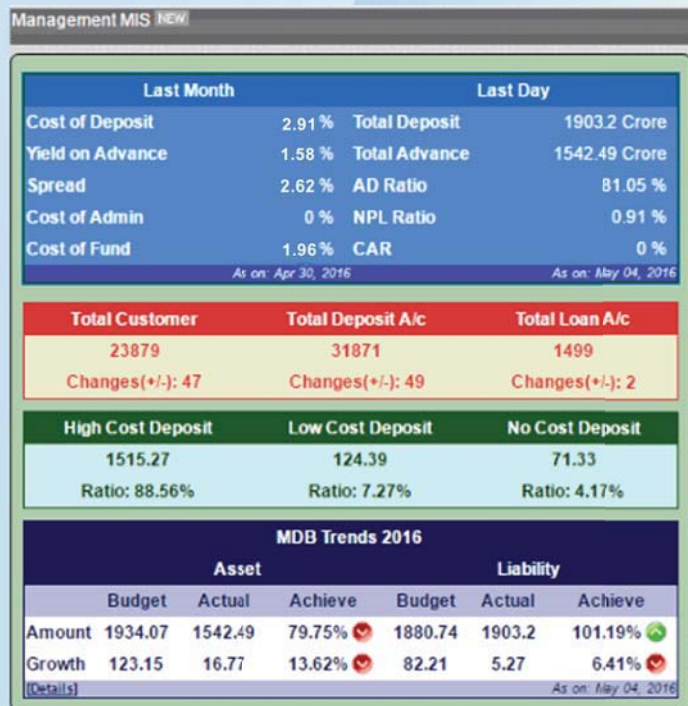
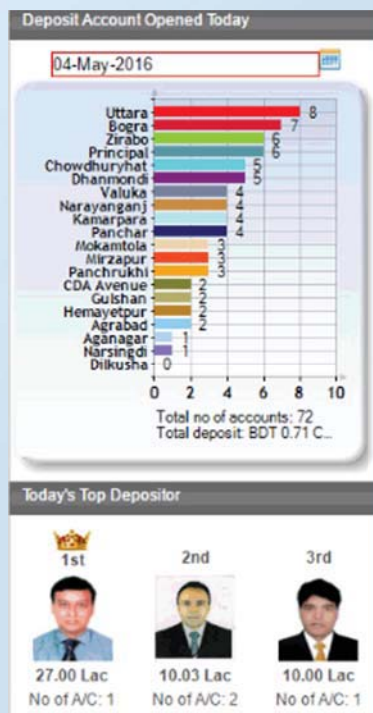




# BI tools & dashboard



Powered by: Flora Systems Limited

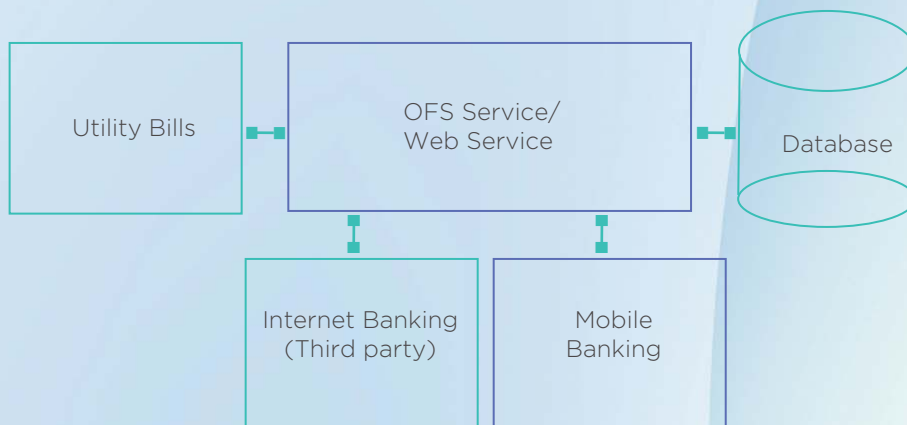




# Flora OFS **manager**

## What is Flora OFS?

- The Flora Open Financial Service module (OFS) provides an interface to allow transaction to Flora CBS by any third-party applications.
- Flora OFS is a fully credential based web service and standard gateway to easy to integrate with third-party solution.
- Flora OFS is an interface that allows transactions and queries request to be processed by FloraBank CBS.
- Data available in external source can be processed
- Also, enquiries related request can be retrieved using Flora OFS
- Can be used to balance enquiry, account statement and fund transfer from various external System.



# Why **clients** would be interested in FloraBank

If you are thinking about reliable banking application, which is tested and implemented based on technology and business processes, then the answer will come back with following points.

- For rapid revolutionization of technological vigor and dynamic business environments, banks should choose FloraBank for their modernization and growth.
- A simple – to – use financial processes, calculations and modelers that understand the bank's customer's mentality and help to display customized product information.
- The relevant product of retail and corporate banking ease the processes of communicating with customer.
- Coherent extensive and dynamic features that make you feel the essence of sophisticated, sensitive banking environment.
- Highly customizable, so that banks can easily be able to tailor their respective products and depict their novel offerings. Tailoring can be made precisely on Back office and complex financial calculation that will enrich operational efficiencies.
- A powerful tactical financial solution that supports extensive localization. All tools can be offered in multi – currencies and multi – companies. Banks can easily manage the related data centrally, while enabling instant updates, across all channels, throughout their local operations.

■ Effortless deployment in any channels like offline or online, so that any bankers can accurately symbolize the keen factors of their products with nice and lucrative offerings, so that the risk of misinterpretation will be severely minimized.

■ Magnificent and customizable Reporting tool that enables any types of reports according to the requirement of Management as well as customers.

■ FloraBank's easy integration capability that helps to incorporate with other their party applications (Like Transaction management system).

■ Supports Business Intelligence (BI) tools (Like SAP), which helps to fetch data from real time environment and views with user defined reports.

■ Robust security options that increase bank's security aspects.

■ Accuracy of Data fidelity that enhance ease of data migration.

■ Classified customer experience that sustains in true relationship banking.

■ Highly Parameterized & Easy Interface.

■ Central Bank reports compliant.

■ Operates even in low bandwidth availability (64 kbps).

## Head quarter

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