



## FUNCTIONAL SPECIFICATION

<b>Project Code:</b>	InternetBankingSystem-01
<b>Project Name:</b>	Internet Banking System

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**Prepared by/Date**

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**Reviewed by/Date**

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**Approved by/Date**



## Revision History

Version (x.yy)	Date of Revision	Description of Change	Reason for Change	Affected Sections	Approved By
1.00	4-June-2019	Initial Draft			

## Affected Groups

Development Engineering
Quality Assurance
Our Bank India Ltd

## List of Reference Documents

Name	Version No.
1. Request For Proposal	1.0
2.	
3.	
4.	



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## 1. Introduction

### 1.1 Background

Our Bank India Ltd provides Banking Services to Indian citizens.

### 1.2 Purpose

Our Bank India Ltd plans to develop Internet Banking - a web application wherein a user can access his or her Account and do transactions online.

### 1.3 Scope

The scope of Internet Banking System will provide the functionality as described in Functional Requirements below. The system will be developed on a Windows Client or Windows Server machine using ASP.NET, C#, SQL Server etc.

## 2. Systems Overview

### 2.1 System Description

Internet Banking System should support the following users.

- Administrator (A)
- Branch Manager (M)
- Customer (C)

The common functional requirements are explained below.

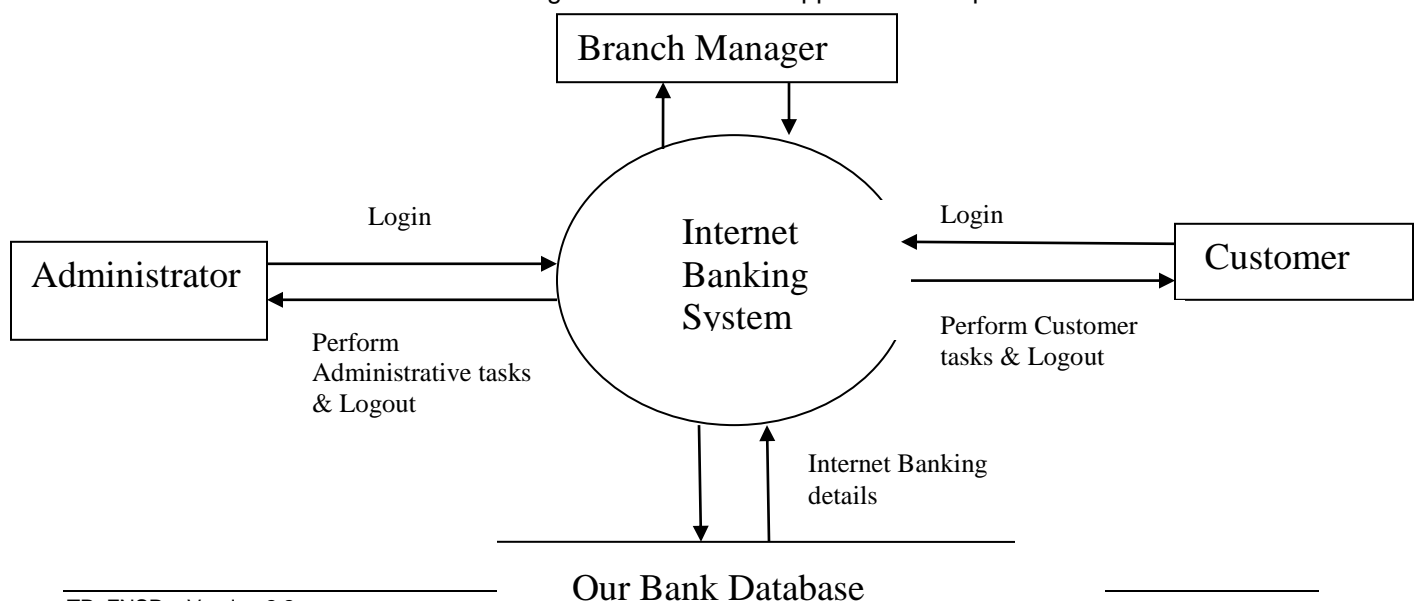
#### 2.1.1 Authentication

Any end-user should be authenticated using a unique login ID and password.

#### 2.1.2 Authorization

The operations supported and allowed would be based on the user type. For example, Administrator has the rights to add or modify Branch Manager details.

The functional flow of the messages across different application components is shown below.





## 2.2 Environment

- Intel hardware machine (PC i5, 4 GB RAM, 500 GB HDD)
- Windows 10
- .NET Framework 4.6 or higher
- IIS 7.0 or higher
- Visual Studio 2017 or higher
- Database – SQL Server 2014 or higher

## 3. Sub-system Details

### 3.1 Administrator

The Administrator should be able to do the following operations once he has logged in with his unique user id and password.

- Add branch manager details.
- Modify branch manager details.
- Delete branch manager details Update Passport Status (Issue/Pending/Cancel upon verification)
- Search and view branch information.

Add Branch Manager: As part of this operation, the admin should have the ability to add details of branch manager. Get confirmation on successful entry. BranchManagerID is auto-generated.

Branch Manager Details include:

- BMID
- Name
- Address
- PhoneNo

Modify Branch Manager Details: As part of this operation, the admin should have the ability to edit branch manager details in the system by either picking BMID from the list or searching through a wild card.

Delete Branch Manager Details: As part of this operation, the admin should have the ability to delete branch manager details in the system by either picking BMID from the list or searching through a wild card.

Search and View Branch Information: As part of this operation, the admin should have the ability to search and view branch details on basis of branch code, state, city, pincode and IFSCCode.

Quit Session: As part of this operation, admin should have the ability to quit the session completely.

### 3.2 Branch Manager



The Branch manager should be able to do the following operations once he has logged in with his unique LoginID and password.

- View all pending Internet Banking requests.
- Approve / Reject the requests.
- View all Approved / Rejected requests.
- Quit Session

#### View all pending Internet Banking requests

As part of this operation, the branch manager should have the ability to view all pending requests of his branch.

#### Approve / Reject the requests

As part of this operation, the branch manager should have the ability to 'Approved' or 'Rejected' any pending request.

#### View all Approved / Rejected requests

As part of this operation, the branch manager should have the ability to view all 'Approved' or 'Rejected' requests by inputting 'RequestID' or by selecting start date and end date from a calendar.

Quit Session: As part of this operation, branch manager should have the ability to quit the session completely.

### **3.3 Customer**

The Customer should be able to do the following operations.

- Register to Our Bank internet banking
- Track the status of the request
- Create own username and password for logging into Internet banking
- Login to Internet banking account.
- View account details
- View and print account statement
- Add a beneficiary
- Transfer funds to the registered beneficiary.
- Quit Session

#### Registration

As part of this operation, savings bank account holder should have the ability to register to Internet banking in his own branch and generate a 'RequestID'

Registration details include (all mandatory):

- SBAccountNumber
- CIFNumber
- Branch code
- Registered Mobilen.

#### Track Status of request

As part of this operation, a registered customer can track his or her status for approval from branch manager by providing 'RequestID' and 'Registered Mobilen'

#### Create own username and password for logging into Internet banking:

As part of this operation, customer whose request was approved by branch manager can create his own username and password for logging into Internet banking.

Login into Internet Banking:

As part of this operation, customer should be able to login into his or her internet banking account by providing username and password created by them.

View account details:

As part of this operation, customer can view his or her account details after login.

Account details includes

- SBAccountNumber
- CIFNumber
- BranchCode
- AccountType
- Balance
- AccountStartDate
- AccountStatus

View and print account statement:

As part of this operation, customer should be able to view his or her account statement by providing start date and end date to generate statement. The generated statement can be printed.

Add a beneficiary:

As part of this operation, customer should be able to add a beneficiary to his account to make NEFT or RTGS fund transfers.

Beneficiary details includes

- BeneficiaryName
- BeneficiaryAccountNo
- BeneficiaryBankName
- BeneficiaryIFSCCode
- TransferLimit

Transfer funds to the registered beneficiary:

As part of this operation, customer should be able to transfer funds to any of the registered beneficiaries by selecting their account number.

Quit Session: As part of this operation, customer should have the ability to quit the session completely.

## 4. Assumptions

- User Interface: The type of client interface (front-end) to be supported is – GUI based
- The scope of the application is limited to only one country

## 5. Expectations

- The application should be designed using client server architecture
- The server should be a concurrent server servicing multiple clients
- Database can be implemented using SQL server 2014
- To begin with, the application should support at least 1 admin



- Compilation and Build should be done using Visual Studio 2017 or higher
- Source-code and all documents must be maintained (checked-in) in configuration management system (subversion)
- Coding standards should be followed
- All requirements are to be implemented using MVC 5, Entity Framework 6 & Web API (Optional)
- Regular Expressions should be implemented at appropriate places to validate the data within the application
- Deliverables should include compiled and tested source code

## 6. Acceptance Criteria

All P1 requirements have to be mandatorily implemented

## 7. Traceability to Requirements

Document Reference ID & Description: (Doc ID from which this document is derived)		
Sl. No.	Reference document: RS Requirement/Feature (Section ID/Name)	Current document: FS Location (Section ID/Name)
1.	Requirements as mentioned in Section 2.1	Section 3.1
2.	Requirements as mentioned in Section 2.2	Section 3.2,
3.	Requirements as mentioned in Section 2.3	Section 3.3
4.	Requirements as mentioned in Section 2.4	Section 2.1.1, 2.1.2
5.	Requirements as mentioned in Section 2.6	Section 3.1,3.2,3.3

## 8. Acronyms and Glossary

Abbreviation	Remark
RS	Requirement Specification
FS	Functional Specification
P1	Priority 1.
OS	Operating System.
PC	Personal Computer.
GB	Gigabyte.
RAM	Random Access Memory.
HDD	Hard Disc Drive.
IIS	Internet Information Service.
SQL	Structured Query Language.