<> Project: High Level Design Template

Department Name

Date

Version No.	1.00
Authorized by	

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Revision History

Version	Date	Author	Reviewer	Approver	Comments
0.1	XXXXX				Draft Version
0.2	XXXXX				Incorporated some document structure and content related changes
0.3	XXXXX				Added some sections like state and session management, caching etc. suggested by Laxmi R
1.0	XXXXX				Baseline

Table of Contents

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Introduction

1.1 Scope of the document

This section will cover details regarding scope of the document

Sample Content:

This document outlines the high level functional design of tax payer registration functionality. It highlights/refers the high level flows / Use cases in registration process, design of components, along with the rationale for the same. It serves as an input to the low level design documents that would further elaborate on the application design.

1.2 Intended Audience

- *This section will cover categories of audiences who will be referring/reviewing this document*

Sample Content:

- *Web portal Development Team*
- *Architecture Team*
- *Quality Team*
- *Department*

1.3 System overview

- *This section will capture high level overview of system application i.e. for what system is being developed ,the high level process flow*
- *Who are the stake holders of system*

Sample Content:

This system provides a web interface to the tax payer for filling up registration form and submits his registration request. This system also provides facility to integrate third party application through API so that tax payer can use third party application for registration. In Registration process, tax payer need to complete registration form having some mandatory and optional fields. This system will do the both structural validation and data validation in real time. There will be separate work flow for approval.

System Design

Application Design

This section will capture Process flow, Information flow having sequence diagram for different use cases, component design details, key design considerations taken and API catalogue

Process Flow

This section will capture the flowcharts(s) representing process diagram
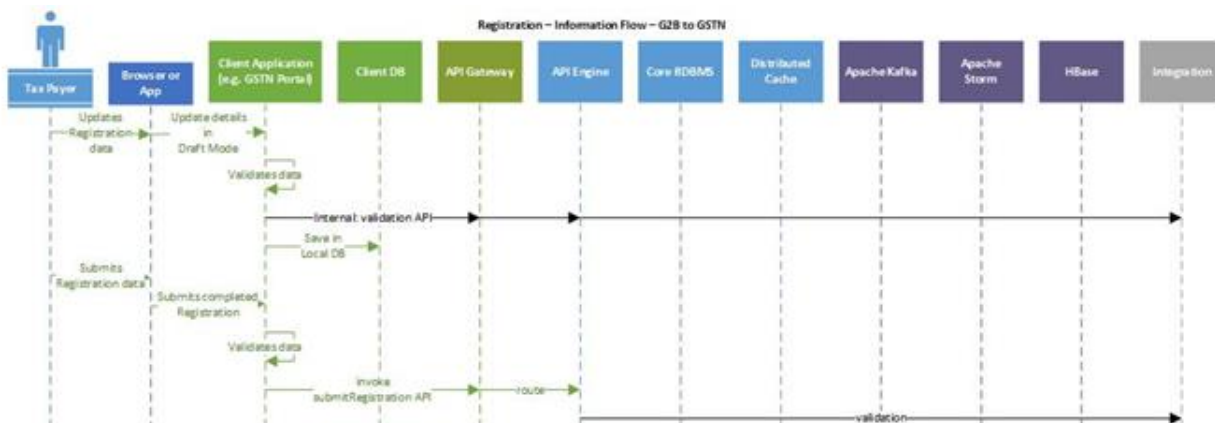
Sample Process Flow Chart:

If we take tax payer registration work flow as a sample, Work flow diagram will be as shown in diagram
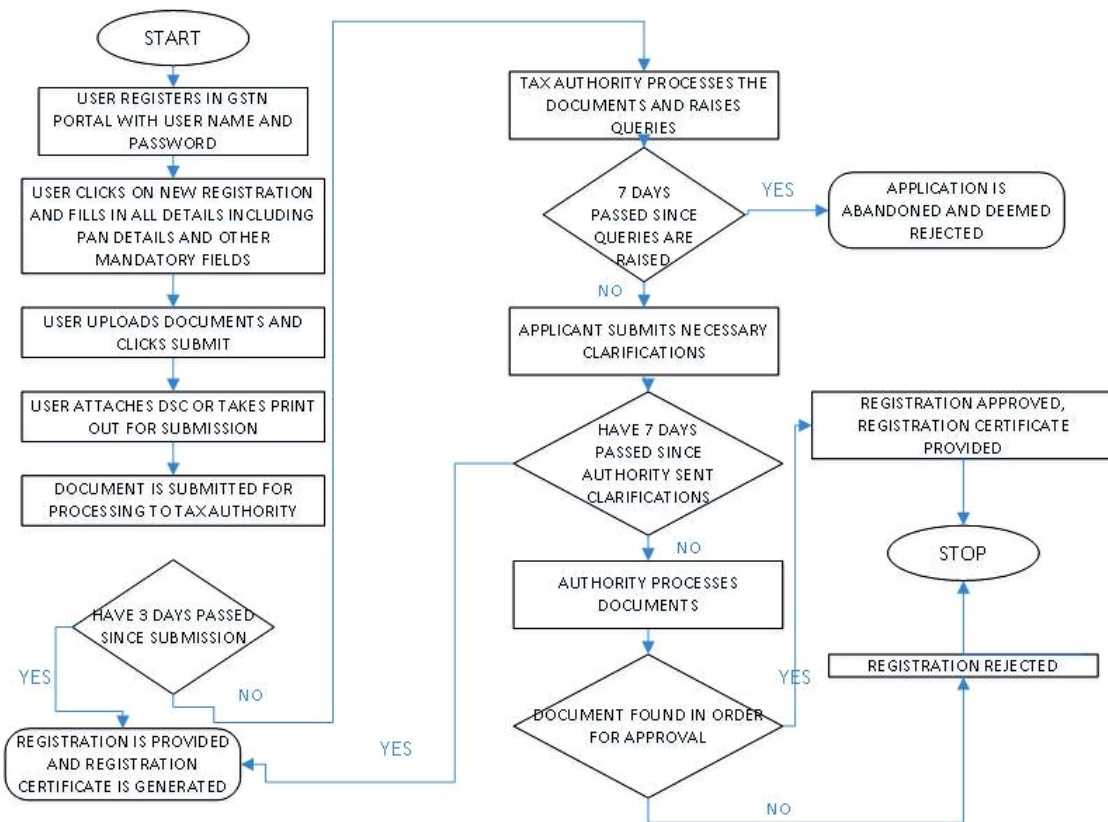
Information Flow

- *This section will capture flow of information between all application components required to meet the requirement*
- *This will capture flow for both positive and negative scenarios*

Sample Sequence Diagram:

Components Design

- *This section will capture the elaborative details of each component depicted in sequence diagram*
- *This will also highlight importance/use of component*

Key Design Considerations

This section will capture the list of key design consideration and the reason for taking considerations:

Sample Content:

- *Messaging component has been implemented as separate service because apart from website portal, it could be invoked by other offline applications as well.*
- *As Statement file generation is heavy process and volume is high so it has been implemented as offline batch application   ......*
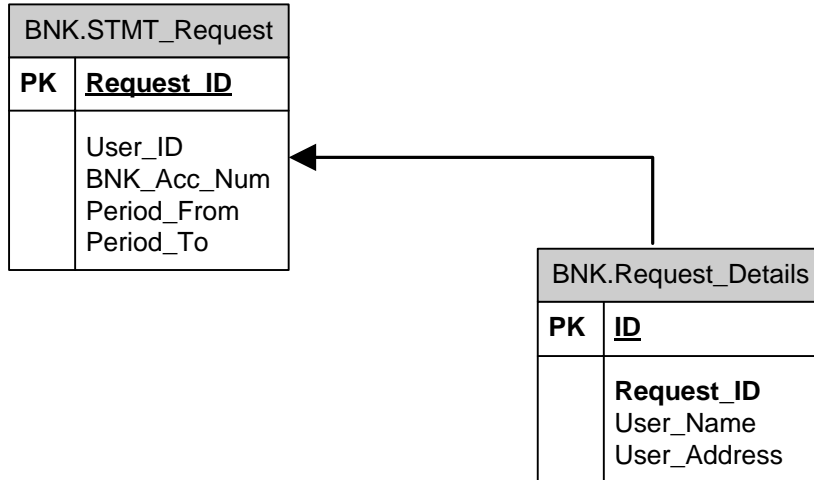
API Catalogue
Sample Content:

Sr. No.	Name Of API	Description	Input	Output	Access Level
1	getNewRegistrationReq	This Api provides the registration data	As per input mentioned in API document available at share point	As per output mentioned in API document available at share point	Public
2					

Data Design

Data Model

- *This section will capture high level design of data model*
- *It will capture information like whether it is RDBMS/HDFS etc.*
- *Entity relationship etc. diagrams will also be captured*

Sample Content:

BNK.STMT_Request	
PK	**Request_ID**
	User_ID BNK_Acc_Num Period_From Period_To

BNK.Request_Details	
PK	**ID**
	Request_ID User_Name User_Address

Data Access Mechanism

There will be a high level technical design consideration which will cover framework for data access mechanism i.e. ORM implementation details etc. In this section, any customization specific to module (for which this document is prepared) will be covered.

Data Retention Policies

- *This Section will capture policies related to data purging/data archiving*
- *This will also capture specific tables for which data will be purged/archived*

Data Migration

- *This section will capture the data migration strategy*
- *We know that data migration is big activity so the strategy may get capture in separate document. If it is being captured in separate document, we need to give the reference of same document.*

Interfaces

This section will capture the high level details of other Interfaces which are interacting with our application in scope.

State and Session Management

There will be separate high level technical design document which will cover framework for state and session management. In this section, any customization specific to module (for which this document is prepared) will be covered.

Caching

There will be separate high level technical design document which will cover framework for caching. In this section, any customization specific to module (for which this document is prepared) will be covered.

Non Functional Requirements

- *This section will capture non-functional aspects of system*
- *This section will capture Security aspects and Performance aspects of the system*

Security Aspects

Sample Content:

Apart from infra level security (Web application firewall/Network firewall) here are some sample application level security considerations

Virus scanning of files before successful upload

Symantec library will be used as virus scanning engine

Only selective File format supported

Only *.docx,*.jpeg etc. .File format are supported

Restricted file upload size

File size to be uploaded should not be exceeded to 5 MB

Performance Aspects

This section will capture the performance aspects of the application in scope

References

This section will list down the documents which has been refereed while creating this document

S.No	Document Name	Version	Date

Appendices

Appendix 1. Comments Matrix

Since there is no formal tool finalized currently for logging comments on various document deliverables, Comments Matrix is being put here to ensure comments are being tracked and resolved. Once a formal tool is identified, this process might change for future deliverables.

S. No.	IRD Review Comments	Date Raised	Vendor Remarks
1			
2			