Automation Mailing System using template for bulk mailing (As a part of ACTS Management System)

Functional Requirement Specification Document

Functional Requirements Document

Name of Document	Functional Requirement Specification <projectname></projectname>
Author	Sagar Deware
Description of Content	Functional, Technical and Operational Requirements
Reference	
Approved by	
Date of Approval	

Distribution

Copy No.	Distributed to	
1	<pre><participating teams=""></participating></pre>	
2		
3		

Functional Requirements Specification,	Automation Mailing System usin	ng template for bulk mailing
		-8F

4	

Document Version Control

Version Number	Version Date	Prepared by	Reviewed by	Particulars/ Description for Change	Remarks

List of Requirements Elicitation Discussions

SN.	Date	Participating Institutes/ Departments
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		
18.		

Functional Requirements Specification,	Automation Mailing S	vstem using tem	plate for bulk mailing
	8-1	<i>J</i>	r

110 1	
1 19. I	

Abbreviations

CONTENTS

1 INT	TRODUCTION		1
	Purpose		1
	Background		1
1.3	Scope		2
1.4	References		2
1.5	Document Overview		2
2		UAN Allotme	ent System 3
3		FUNCTIONAL REQUI	REMENTS3
	3.1 Registration of Departments		4
		3.1.1 Registration of De	epartments 4
		3.1.2 [Description4
		3.1.3 Functionalities	s identified 5
		3.1.4 Field validations and bus	iness rules 5
	3.2 API for Generation of UAN		5
		3.2.1 UAN Allotment for a sin	gle worker6
	3.2.1.1 Description		7
	3.2.1.2 Cross Functional Dia	ngram	7
	3.2.1.3 Functionalities identifie	ed	5
	3.2.1.4 Pre-requisites, Assur	mptions and Dependencies	7
	3.2.1.5 Field validations and	d business rules	7
		3.2.2 UAN Allotme	ent for bulk 10
	3.2.2.1 Description		10
	3.2.2.2 Cross Functional Dia	ngram	10
		3.2.1.3 Functionalities	s identified 5
	3.2.2.4 Pre-requisites, Assur	mptions and Dependencies	11
	3.2.2.5 Field validations and	d business rules	12
3.3 Upo	dation in UAN Data		13
	3.3.1 Description		13
	3.3.2 Cross Functional Diagram		14
3.	3.3 Functionalities identified		5
	3.3.4 Pre-requisites, Assumptions		14
	3.3.5 Field validations and busine	ss rules	15
3.4 Fan	nily Member Details		17

3.4.1 Description	17
3.4.2 Cross Functional Diagram	17
3.3.3 Functionalities identified	5
3.4.4 Pre-requisites, Assumptions and Dependencies	18
3.4.5 Field validations and business rules	18
3.5 Other API Integration with different departments	20
3.5.1 Description	20
3.5.2 Cross Functional Diagram	20
3.3.3 Functionalities identified	5
3.5.4 Pre-requisites, Assumptions and Dependencies	21
3.5.5 Field validations and business rules	21
3.6 Implementation of Aadhaar Data Vault	21
3.7 Download UAN	21
3.8 Print UAN	21
3.9 Report Generation	21
3.10 Data Migration	21
4 External Inte	rfaces 22
5 Audit and Prove	nance22
Current UAN Schema (Shared by the Departm	-
7 Data Migration of UANs from EPFO to UAN I	Engine 22

6

1 INTRODUCTION

Introduction to the component and its usage

1.1 Purpose

The primary objective of the project, 'Automation Mailing System Using Templates for Bulk Mailing,' is to revolutionize the conventional mailing process by introducing a highly automated and streamlined system. By harnessing the power of automation, this project aims to significantly enhance efficiency and productivity in handling bulk mail. The overarching goal is to cater to the diverse needs of users, including employees and Students, by providing them with a sophisticated yet user-friendly platform. This platform will empower users to effortlessly create, customize, and send bulk emails using pre-designed templates, thereby saving valuable time and resources. Furthermore, the project seeks to mitigate common challenges associated with manual mailing processes, such as errors, delays, and inconsistency in communication. By leveraging automation, it promises to deliver swift and accurate mailings, ensuring timely dissemination of information and correspondence. Ultimately, the Automation Mailing System endeavors to revolutionize how organizations and individuals manage their communication needs, offering a seamless and efficient solution that aligns with modern standards of productivity and convenience.

1.2 Scope

The scope of the 'Automation Mailing System using templates for Bulk mailing' project encompasses the development and implementation of a comprehensive software solution tailored specifically for use within CDAC (Centre for Development of Advanced Computing). This system will serve as an integral tool for every entity within CDAC, spanning across departments, teams, and individual users. In addition to its primary application within CDAC, the project aims to offer a versatile solution

Functional Requirements Specification, <Project Title>

that can be adapted for use by a wide range of organizations reliant on email communication. This includes but is not limited to educational institutions, government agencies, corporations, and nonprofit organizations.

1.4 References

a) Reference documents: SRS, Design Document

1.5 Document Overview

This document gives an overview of the **Automation Mailing System using template for bulk mailing**; its interactions and functionality. It also describes the type of stakeholders that use the system and what functionalities are available for each type. The following FRS contains the details of Functionalities. It provides the detailed functions of the System with permitted Constraints, Assumptions, Dependencies and Requirements subsets.

The Functional Requirements Specification (FRS) document outlines the specific functionalities and features that will be implemented in the "Automation Mailing System using templates for Bulk Mailing" project. It serves as a detailed guide for developers, project managers, and stakeholders to understand the functional aspects of the system.

2 FUNCTIONAL REQUIREMENTS

List the functionalities of the system.

2.1 Functionality 1

2.1.1 Description

Explain about what this functionality 1 meant for.

2.1.2 Functional Requirements Identified

	Functionality 1				
SN.	Functionality	Remarks/ Additional			
			Info		
FR 1.1	Sending Mail by Choosing Template:	Users should be able to select pre-designed	Additional information if		
		email templates from a template library to	any		
		compose and send emails quickly.			
		Templates may include predefined formatting,			
		text, images, and placeholders for dynamic			
		content insertion.			
FR1.2	Sending Normal Mail Without Using	Users should have the option to compose			
	Any Template:	emails without utilizing any pre-existing			

Functional Requirements Specification, <Project Title>

		templates, allowing for personalized messaging tailored to specific recipients.	
FR1.3	Login as Admin to Create Mail Template:	Administrators should be able to log in to a dedicated admin interface to create, edit, and manage email templates. Admins should have the ability to define the layout, content, and styling of templates to ensure consistency and branding across all outgoing emails.	
FR1.4	Mail Admin to Remove/Enable/Disable Template:	Administrators should possess the authority to manage the availability of email templates by enabling, disabling, or removing them as needed. This feature ensures that outdated or irrelevant templates can be deprecated, while new templates can be added or existing ones can be modified.	

Functional Requirements Specification, <Project Title>

FR1.5	Mail Admin to Generate Mailing	Administrators should be able to create and	
	Groups:	manage mailing groups, allowing for efficient	
		distribution of emails to predefined sets of	
		recipients.	
		Mailing groups can be categorized based on	
		various criteria such as department or custom	
		attributes.	
FR1.6	Generic Mail With/Without	Users should be able to send generic emails to	
	Attachment:	recipients with or without file attachments,	
		catering to scenarios where users need to	
		convey general information or updates to a	
		wide audience.	
FR1.7	Named Mail With/Without Individual	Users should be able to send personalized	
	Attachment:	emails addressed to specific recipients, either	
		with or without individualized file	
		attachments, enabling targeted communication	
		tailored to individual recipients.	
		-	
FR1.8	Named/Custom Mail With/Without	Users should have the option to further	
	Attachment:	customize emails by incorporating	

		personalized content, such as recipient names or specific message components, along with optional file attachments.	
FR1.9	Mail With Multiple Attachments:	Users should have the capability to attach multiple files to a single email, facilitating the transmission of various documents, images, or other multimedia content in a single message.	

2.1.3 Fields Validations

This table lists the various fields that will be there in the form for the requirement

S N	Field Name	Field Description	Validations	Remarks
1	Name of field	Field description	• Validations	Mandatory/non mandatory

3.2.1.4 Pre-requisites, Assumptions and Dependencies

Databases should be stored in the system before deployment.

3 External Interfaces

Explain if any external interface is to be connected like redirection to some other portal or information fetch from some other portal.