System configuration

**Low Level Design Document**

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# Introduction

* Purpose Of the Document

This document serves as a detailed guide for the development team to implement the low-level design of the System Configuration of AMF. It outlines the specific components, data flow, algorithms, and interfaces required to realize the functionality of managing System Configuation within the system.

* Scope

The scope of this LLD document is focused on providing a detailed design for the System Configuration module of AMF. It encompasses the following aspects:

* Module Overview
* Architectural Diagram
* Data Structure
* Algorithms and Logic
* Interfaces
* Error Handling
* Performance Considerations
* Security Considerations
* Testing Strategy
* Dependencies
* Configuration Management

# Module Overview

The System Configuration module defines:

* The different Entities that determine how the system is structured
  + - **Application:** An Application is a logical group of Modules that enables management of information of specific nature
    - **Module:** A Module is an independent component that can be easily integrated into an application of the system. A module specifies a set of functions which can be performed on a specific set of information.
    - **Action:** An action is the defined piece of task that can be performed in a module.
    - **Member:** A Member is an organization or an individual who manages its information in one or more Applications in the system.
    - **Action Group:** Action Groups are logical grouping of actions that standardizes and facilitates the assignment of multiple actions to members.
* The different Configurations that determine how the system behaves :
  + - **System Mode:** The System Mode determines whether the system is a
      * Stand Alone System
      * SaaS system.
    - **Multi Action Group:** The Multi Action Group behaviour determines whether a Member can be assigned multiple Action Groups or must be restricted to only one Action Group.

# Architectural Diagram

# Data Structure

* **Introduction**

This section describes the attributes of different Entities of system configuration and their relationships.It includes table for

Application

Module

Action

ActionGroup

Member

* **Database Schema**

**Tables:** Application

**Attributes:**

* + - Id(Primary Key)- Integer
    - Name - String
    - Description - Text

**Tables:** Module

**Attributes:**

* + - Id(Primary Key)- Integer
    - ApplicationId(Foreign Key)- Integer
    - Name - String
    - Description - Text

**Tables:** Action

**Attributes:**

* + - Id(Primary Key)- Integer
    - ModuleId(ForeignKey)- Integer
    - Name - String
    - Description - Text

**Tables:** Action Group

**Attributes:**

* + - Id(Primary Key)- Integer
    - ActionId(Foreign Key) - Integer
    - MemberId(ForeignKey)- Integer
    - Name - String
    - Description - Text

**Tables:** Member

**Attributes:**

* + - Id(Primary Key)- Integer
    - Name - String
    - Created On - Date
    - Description - Text
* **Operations**

Insertion

Update

Deletion

Querying

* **Triggers and Stored procedures**
* **Indexing**
* **Views**

# Algorithms and Logic

# Interfaces

# Error Handling

# Performance Considerations

# Security Considerations

# Testing Strategy

# Dependencies

# Configuration Management

# Documentation References

# Glossary

|  |  |
| --- | --- |
| **Term** | **Definition** |
|  |  |
| **Action** | An action is the defined piece of task that can be performed in a module. |
| **Action Group** | Action Groups are logical grouping of actions that standardizes and facilitates the assignment of multiple actions to members. |
| **Application** | An Application is a logical group of Modules that enables management of information of specific nature |
| **Member** | A Member is an organization or an individual who manages its information in one or more Applications in the system. |
| **Module** | A Module is an independent component that can be easily integrated into an application of the system.  A module specifies a set of functions which can be performed on a specific set of information. |
|  |  |

# Revision History