AXON CFS

Software Design Document

Change Log

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| --- | --- | --- |
| Date | Change By | Detail |
| 17 Mar 2021 | Danh | Init document |
| 18 Mar 2021 | Danh | Add introduction and table of contents |

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# Overview

This introduction provides an overview of the Software Design Document for Axon Call For Service (CFS) management system. It includes the purpose, scope, design approach, main component design and high-level system design considerations of the system.

## Document Scope and Purpose

This document provides a description of the technical design for Call For Service - API. This document’s primary purpose is to describe the technical vision for how business requirements will be realized. This document provides an architectural overview of the system to depict different aspects of the system. This document also functions as a foundational reference point for developers.

## Acronyms / Abbreviations

|  |  |
| --- | --- |
| **Acronym** | **Meaning** |
| **CFS** | Call For Service |

## System Environment

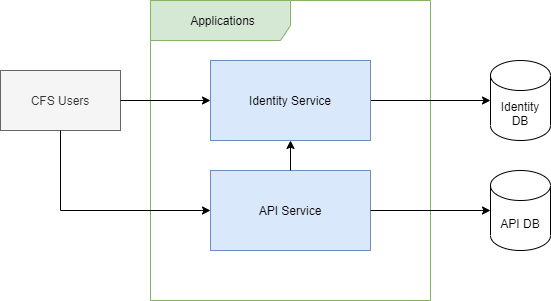
* Development: Visual Studio 2019 / Visual Studio Mac / Visual Studio Code
* Unit Test: xUnit
* Diagrams: draw.io
* Database: MSSQL
* Deployment: Azure App Services

## Architecture Design

CFS Management System will follow N-Tier Architecture. A principal advantage to this design is the relative stability of the components as seen by the applications developer. Implementations may change considerably to enhance the performance or in response to changes in the architecture. These changes are less likely to cause major impact to the applications’ programs.

* Identity Service: manage users, as well as handling user’s token
* API tier: exposing APIs to users, as well as API configurations
* Application tier: contains business logic of application
* Domain tier: contains domain models of the application
* Infrastructure tier: contains database context, code-first model mappings data migrations and DI injectors

## High-level View



# Modules