

Architecture Notebook

1. Introduction

The Architecture Notebook serves as a comprehensive guide to the system architecture for the Franchisor Digitalization System, developed following the Open Unified Process (OpenUP) methodology. This document provides an in-depth overview of the system's architecture, detailing key components, their interactions, and their roles within the system.

2. System Architecture Overview

2.1 Database

The Database package serves as the foundation of the system, housing critical data related to franchise management, user information, transactions, and other essential entities. It employs a relational database management system (RDBMS) to ensure data integrity, security, and scalability.

2.2 User Interface

The User Interface package comprises various components responsible for interacting with users across different platforms. It includes the Web Interface and Mobile App components, offering intuitive interfaces for franchise owners, managers, and employees to access and manage their operations. Additionally, it encompasses user interface elements such as Dashboard, Franchise Management UI, and Report Dashboard, enhancing user experience and facilitating efficient navigation and data visualization.

2.3 Expression of Workflows

The Expression of Workflows package houses the Workflow Engine component, which orchestrates and executes various workflows within the system. Leveraging workflow automation techniques, it streamlines processes such as franchise onboarding, training, and support, ensuring consistent and timely execution of tasks across the franchise network.

2.4 Apply Knowledge of this Domain (Workflows)

The Apply Knowledge of this Domain (Workflows) package encapsulates domain-specific workflows tailored to the franchisor business model. It includes components such as Onboarding Workflow, Training Workflow, and Support Workflow, each designed to address specific operational requirements and optimize business processes. These workflows leverage domain knowledge to automate repetitive tasks, improve efficiency, and enhance overall franchise management.

3. Interactions and Dependencies

The system architecture exhibits intricate interactions and dependencies among its components, facilitating seamless operation and data flow within the system. Notable interactions include:

- The Web Interface and Mobile App components interact with the Database component to retrieve and store data essential for franchise management, ensuring data consistency and availability across platforms.
- User interface components such as Dashboard, Franchise Management UI, and Report Dashboard rely on the Web Interface component for user interaction and data presentation, providing a unified and consistent user experience.
- The Workflow Engine component collaborates with workflow-specific components within the Apply Knowledge of this Domain (Workflows) package to execute and manage various workflows effectively, enabling streamlined execution of franchise-related tasks.

4. Conclusion

The Architecture Notebook offers a comprehensive overview of the system architecture for the Franchisor Digitalization System. By detailing key components, their functionalities, and interactions, this document serves as a valuable reference for system architects, developers, and stakeholders involved in the project. With its insights into system design and implementation, the Architecture Notebook fosters effective collaboration and informed decision-making throughout the project lifecycle.