

Title : Interface and Reporting System for Financial Transactions

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ABSTRACT

Due to the continuous increase in the number of users and the volume of transactions processed through the backend system of the KPLUS application, the primary objectives of this development were to enhance transaction capacity and improve customer service convenience through the design and development of a new interface system.

The trainee participated in developing the interface for the application “Integration Hub,” which efficiently manages and transmits various transaction items to the Core Banking Service. This was achieved using the Go language (Golang), Microsoft SQL Server for database management, and other tools/software such as GitLab, Jenkins, and the Linux CLI to ensure system stability and fast response times.

Furthermore, the new system includes a data processing component to support back-office processes such as reconciliation, where a dedicated module utilizes T-SQL commands to format transaction data into a structure suitable for generating financial transaction performance reports. The results showed that the Integration Hub application interface system was fully developed and tested, demonstrating seamless integration with the existing financial transaction system. Testing confirmed that the new system was stable and capable of managing an increased transaction volume efficiently, providing application users with a more convenient and faster experience, and allowing transaction data to be utilized for creating reports to support further operational actions.

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