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Abstract
In this thesis, an Automation Service System (AUSS) based on CRON is proposed. AUSS provides an efficient framework that automatically processes a series of functions such as transmitting data across homogeneous or heterogeneous platforms, capturing or generating data for both normal processing and exceptions and processing smoothly with flexibility. The features of AUSS are flexibility, scalability, efficiency, accuracy, automatic importing or self-generation, and thus it can reduce the workload of MIS staff. Taking the school affairs system at the Southern Taiwan University of Technology as a case study, we developed AUSS that can automatically compare databases after integrating cross-department systems, execute period end operations and schedule a sequence of jobs. This system not only simplifies users and administrators' routines and reduces errors, but also directly enhances their working efficiency and cuts operating costs.
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