為醫療資訊系統建置可設定式資料存取控管之探討

Toward Configurable Access Control for Healthcare Information Systems

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Abstract

This paper examines the necessity and challenges of providing configurable access control for healthcare information systems (HIS). We discuss both technical issues of system development and non-technical issues specific to Taiwan. We present a framework based on granularity and implementation technology to compare different implementation approaches to access control. The shortcomings in current software practices are identified and aspect-oriented programming (AOP) is introduced as a promising alternative. We also highlight the directions for moving forward and advocate forming an information technology consortium to pool the resources for developing an advanced solution.

Keywords: access control, aspect-oriented programming, healthcare information systems, electronic health record