

Increasing e-Health systems security and availability by using noSQL databases

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As e-Health systems become more widely used starting with COVID-19 pandemic, the amount of data they collect increases significantly. The volume, diversity, and unpredictability of patient data necessitate distinct storage types for long-term preservation. As a result, one of the primary problems with e-Health systems is making patient data accessible and combined into different styles so that AI algorithms can analyze it. This paper presents an improved persistence system that utilizes nonSQL databases such as Couchbase. The aim of this system is to improve overall system performance while reducing security risks associated with data availability, confidentiality and integrity.

Author: CONTASEL, CRISTIAN (University Politehnica of Bucharest)

Co-authors: PALACEAN, Alexandru-Viorel (POLITEHNICA University of Bucharest); RUGHINIȘ, Răzvan Victor (University Politehnica of Bucharest); Mr STOICA, Victor-Valentin (University Politehnica of Bucharest)

Presenter: CONTASEL, CRISTIAN (University Politehnica of Bucharest)

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