

A Multi-Tenant Problem Oriented Medical Record System for Representing Patient Care Cases using SOAP (Subjective-Objective-Assessment-Plan) Note

Authors : Sabah Mohammed, Jinan Fiaidhi, Darien Sawyer

Abstract : Describing clinical cases according to a clinical charting standard that enforces interoperability and enables connected care services can save lives in the event of a medical emergency or provide efficient and effective interventions for the benefit of the patients through the integration of bedside and bench side clinical research. This article presented a multi-tenant extension to the problem-oriented medical record that we have prototyped previously upon using the GraphQL Application Programming Interface to represent the notion of a problem list. Our implemented extension enables physicians and patients to collaboratively describe the patient case via using multi chatbots to collaboratively describe the patient case using the SOAP charting standard. Our extension also connects the described SOAP patient case with the HL7 FHIR (Health Interoperability Resources) medical record for connecting the patient case to the bench data.

Keywords : problem-oriented medical record, graphql, chatbots, SOAP

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