Distributed Immunisation Information System

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Abstract

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1 benefits

[Covid-19: Vaccines and vaccine passports being sold on darknet] - this system would negate these spoofed vaccination records as all data will be on the system and if not it's illegitimate.

2 Essential considerations

FHIR - standards for sharing healthcare information

3 Immunisation verification app

smarthealth.cards by Vaccination Credential Initiative (VCI) - smart card framework

4 BaaS comparison

Comparing Blockchain-as-a-Service platforms, to identify which tool is most suitable for delpoying the proposed Distributed Immunisation Information System.

Beginning, I was aware of two options: Azure and IBM.

Reading [1].

[Performance Analytical Comparison of Blockchain-as-a-Service (BaaS) Platforms] says "Blockchain highly suffers from scalability problem due to its capped transaction latency as well as consensus approach"

Azure have FHIR API, any good? Azure FHIR API

References

[1]   M. M. H. Onik and M. H. Miraz, "Performance analytical comparison of blockchain-as-a-service (BaaS) platforms," in *Emerging Technologies in Computing*, M. H. Miraz, P. S. Excell, A. Ware, S. Soomro, and M. Ali, Eds., ser. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, Cham: Springer International Publishing, 2019, pp. 3–18, ISBN: 978-3-030-23943-5. DOI: 10.1007/978-3-030-23943-5_1.