

Software platform for the development of integrated cloud-based laboratory services

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Abstract

The cloud-based platforms have grown significantly over the last decade. A laboratory Information System (LIS) is a set of software that receives, processes, and stores information generated by medical laboratory processes. This system should often be able to communicate with other devices and information systems, such as hospital information systems. Laboratory specialities supported by the laboratory information system include haematology, chemistry, immunology, blood bank, surgical pathology, anatomical pathology, and microbiology. Benefiting from LIS at the laboratory level reduces the time it takes to test patients and improve the performance of a laboratory. The proposed platform includes two scenarios, the first scenario is a local in the context of a hospital information system (HIS) and sample information is sent to the platform via a web service. Finally, it interacts with the cloud-based laboratory system and exchanges information and in the second scenario, all the laboratory information is in the cloud and the integration between HIS and LIS should be done and the information exchanged. Further research is needed to create architecture design and develop approaches to facilitate exchanging information between laboratory systems.

Conclusion: Robust estimation of malnutrition and comprehensive assessment of its causes, indicators and their trends over time and their association with policy targets would be useful in decision making to improve disparities in nutritional status.



Biography:

Hosna Salmani is a postgraduate student of Health Information Technology in Iran University of Medical Sciences in Tehran. Hosna have experiences in Research and Teaching Assistant, Cancer Registry, Mobile Health, Internet of Things (IoT), Research and Development centre (R&D), Virtual Education and E-learning centre of the University and also the recipient of several awards from various centres including the National Elites Foundation and Gifted and Talented Student Centre, Tehran, Iran.



Speaker Publications:

- Hosna Salmani; New and Emerging Mobile Health Technologies & Solutions, Aug 2019.
- Hosna Salmani; Surveying the level of the research anxiety and identifying its related factors in PhD students at Iran University of Medical Sciences, Feb 2020.
- Hosna Salmani; Current Trends in Health Information Management, Nov 2018.
- Hosna Salmani; Do Mobile Technology in the Classroom Really Improve Learning Outcomes, Sep 2018.
- Hosna Salmani; The necessity of mobile technologies in medical education, Aug 2018.

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