GSoC 2020 : Improved OpenMRS DHIS2 Integration

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**Abstract**
A lot of great work was done during GSoC 2013 to integrate OpenMRS and DHIS2. The aim of this project is to extend the OpenMRS-DHIS2 Integration Module. The new features to be added will be sourced from the community.

**Objectives**
1. Gather requirements by communicating with the teams who have currently deployed the OpenMRS to understand the problems using the current DHIS2 Integration module.
2. Upgrade the module to work with the latest version of the DHIS2 data model.

**Extra Credit**
1. Upgrade the UI of the module to be used with the micro frontend architecture.

**Skills Needed**
1. OpenMRS data model/understanding of OpenMRS terms.
2. DHIS data model.
3. Reporting Module functionality.
4. Basic understanding of Spring and Hibernate.

Basic understanding of XML and JAXB is needed as the OpenMRS-DHIS2 Integration Module implements them.

**Resources**

OpenMRS-DHIS2-SDMX-HD Integration (see also child pages)

1. http://www.dhis2.org/ (see documentation)
3. http://folk.uio.no/bojo/sdmx/sdmxhd_doc.xhtml
5. https://lists.launchpad.net/dhis2-users/msg03768.html (read the complete thread)
8. Project’s wiki page: https://wiki.openmrs.org/display/projects/GSoC+2020+%3A+Improved+OpenMRS+DHIS2+Integration

**COVID-Squad notes:**

https://notes.openmrs.org/covidsquad2020

10. ADX specification: https://ihe.net/uploadedFiles/Documents/QRPH/IHE_URPH_Suppl_ADX.pdf
12. Dive into DHIS2 Integration work: What’s done, and gaps to know: https://docs.google.com/presentation/d/1QnyaN9L14fu_iSJUrZ5F4hiD77viz6ufQtaKILwN9kw/edit?usp=sharing

13. Comparison between the DHIS2 Connector Module, DHIS2 Reporting Module branches, and UgandaEMR approach: https://medium.com/@jayasanka_sack/comparison-between-openmrs-dhis2-integrations-9742272bb86
14. Summary: Comparison between OpenMRS DHIS2 Integrations: https://docs.google.com/presentation/d/16-20-1ujZluU2KuMps2xHXMzuQZEemdRVMwY1qXz-pOG4/edit?usp=sharing
15. Summary: Reconcile DHIS2 Reporting module branches: https://docs.google.com/presentation/d/1IdN2mo1acBKtrBDV3clGCNpy0_iQidQbgrN2CO1IrJ4/edit?usp=sharing