

GSoC 2020 : Add Support for FHIR Narratives

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Abstract

[FHIR](#) is an emerging standard for healthcare interoperability. While OpenMRS has been an early adopter of the FHIR standard, there is still work to do to get our FHIR implementation working properly. This project focuses on implementing support for [FHIR narratives](#). FHIR narratives are human-readable representations of a FHIR resource. Basically, they provide a simple XHTML web fragment that includes all the relevant content. The main objective for this project is to not only create a decent default mapping for narratives for all the resources defined and handled by the [OpenMRS FHIR module](#), but also to develop a framework which will let implementations define and specify their own templates for FHIR narratives.

Project Champions

- [Ian Bacher](#)

Skills Needed

- Some familiarity with Java
- Familiarity with HTML / XHTML and especially HTML templating

Objectives

- Create basic FHIR narratives for core resources (Patient, Encounter, Observation, Practitioner, Person, etc.)
- Develop a framework to support implementation-driven overrides for FHIR narratives
- As part of this framework, add support for localization of the generated narratives

Extra Credit

- Implement search for FHIR resources using the `_text` parameter
- Develop standardized class names for elements to assist front-end code with proper styling and interpretation

Getting Started

- Read up on FHIR. Good introductions can be found [in this post](#), [in this slide show](#), or [this video](#)
- Read up on the [HAPI FHIR](#) library which we use for FHIR support, [especially the part on narrative generation](#)
- Read up on [Thymeleaf](#), the templating engine used by the HAPI FHIR library
- Browse through examples of the [FHIR Resources](#), most of which have a narrative component