

# FHIR Module Enhancements Project

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## Abstract

The purpose of this project is to expand the capabilities and functions of the OpenMRS FHIR module. OpenMRS has recently undertaken a commitment to implement FHIR in order

to ensure better interoperability between healthcare systems. The OpenMRS FHIR module was developed as part of these efforts. FHIR specification is continuously subjecting to several development iterations

which improves the usability. This project aiming to upgrade the FHIR module to newest version of standard.

## Requirements

- Good Java skills
- Familiarity with J2EE web programming (e.g., JSPs)
- Ability to learn and work with FHIR and the HAPI
- Soft skills to interact with the HAPI and FHIR community in order to gather requirements and technical feedback

## Skills Needed

- Java
- MySQL

## Objectives

- Upgrading HAPI FHIR Library to it's updated version
- Upgrading DSTU2 resources to DSTU3
- Swagger document generation improvements after library upgrade
- Integrate swagger code generator which allows users to generate SDK
- Research on new FHIR resources which can support for OpenMRS
- Implement GET, PUT, POST, DELETE operations for new resources
- Improve the test coverage

## Extra Credit

- Build an audit mechanism to track transactions and their outcome
- Add security features to manage transactions

## Resources

- [Work already completed under phase 01 of the FHIR module](#)
- [HL7 FHIR wiki](#)
- [OpenMRS FHIR GitHub Repo](#)