
OPEN SOURCE ENGINE INTEGRATION OPEN-SOURCE INTEGRATION USE CASE

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Revision Sheet			
Revision	Date	Summary of Changes	Name
1.0	11-8-2020	Baseline Document Draft	Derek Manchee

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1 Introduction

1.1 Identification

This document applies to the software development effort in support of the development of the Open-Source Integration project Version [1].

1.2 Scope

This project was developed for the Harrison. The purpose of this project is to develop an interface that can receive HL7 v2.x messages of the entity type A01, A03 and A08 and store them in a database. The interface will then be able to retrieve and display these messages in table format.

1.3 Document Overview

The purpose of the Open-Source Integration Software Development Plan (SDP) is to guide project management during the development of this project. Requirements for the project will be captured in the Open-Source Integration Software Requirements Specification (SRS). This plan will be placed under configuration management controls according the Open-Source Integration Software Configuration Management Plan. All aspects of the design will be found in the Open-Source Integration Design Documentation.

1.4 Relationship to Other Plans

There are several other documents which support the information contained within this plan. These documents include: Software Configuration Management Plan, Software Requirements Specifications and the design document.

2 Acronyms and Definitions

GUI – Graphical User Interface. H17 – A standardized message format for passing medical and health related messages. RUP – A standard for designing and structuring development of projects

2.1 Overview

The project schedule in support of the project Open-Source Integration was initiated October 19, 2020 with a target completion date of December 7, 2020. Incremental product deliveries may be requested, but none are identified at this time. The delivery requirements are to build a fronted listener that will parse HL7 v2.x messages into JSON objects and a backend python script that will insert these objects into a MySQL database. The frontend will also have an interactive GUI to bring up patient info stored in table format. The Open-Source Integration project will be delivered once the code and documentation has been delivered and, Harrison accepts the product.

2.2 Source Code

There are no requirements for source code deliverables. If Harrison requests the source code, it will be available on bit-bucket.

2.3 Documentation

Open Source Integration documents will be stored on the projects bit-bucket and overleaf accounts.

2.4 Project team

Benson-Client Derek Manchee-Scrum Master/developer Bao Mai-developer/product owner Aubrey Nickerson-developer Keaton Canuel-developer Joseph Egely-developer

3 Software Process

3.1 Software Development Process

This product will be developed using scrum and agile alongside RUP. This means the project will be iterative and focus on testing all modules separately as well as testing them as a whole. By following RUP format, the development will be split into 4 segments. Inception will focus on researching the product to be made, for this project what HL7 messaging is and how it is formatted. Elaboration phase will focus on design and documentation, as well as a preliminary prototype. Construction will focus on building and

coding the Open-Source Integration project. In the transition phase refactoring the code and setting up the handover of the project will be the focus as well as any last minute bug fixes.

4 Schedule

- October 2, 2020 ◦ Project management schedule finished ◦ Systems Requirements started ◦ Design document 50◦ Business document done ◦ Listener finished ◦ Backend set up for v2.1 message testing
- October 4, 2020 ◦ Meeting with client
- October 9, 2020 ◦ Start of construction sprint (2 weeks) ◦ System Requirements and Design Documentation finished (update as necessary)
- October 16,2020 ◦ Project set up for v2.8 messages ◦ Configuration documentation started ◦ Start on graphic user interface to interact with database and show patient information
- October 18, 2020 ◦ Meeting with client
- October 23, 2020 ◦ Project ready ◦ Refactor code ◦ Configuration document done ◦ All documentation done ◦ Start transfer sprint to fix anything that still is not working ◦ Change documents to latex
- December 7, 2020 ◦ End of final sprint submit project
- December 9, 2020 ◦ Present project