Open-Source Integration
Software Project Management Plan

Client: Harris on point Benson
Open-Source Integration

November 2, 2020
Team Members:
Scrum Master: Derek Manchee
Product Owner: Bao Mai
Developers: Aubrey Nickerson
Keaton Canuel
Joseph Egely
Version 1

Okanagan College
Computer Science Department
COSC 470

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[Project Lead Signature Block]

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[Project Manager Signature Block]

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Revision Sheet

Revision Number	Date	Brief Summary of Changes	Editor
1.0	**November 2, 2020**	Baseline document	Derek Manchee
1.1	**November 9, 2020**	Added appendix 1 and 2	Derek Manchee
1.2	**November 22, 2020**	Added appendix 3	Derek Manchee
1.3	**December 3, 2020**	Added appendix 4	Derek Manchee

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

4 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.

2.1 Source Code

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

2.2 Documentation

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

2.3 Project team

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

4 Software Process

4.1 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.

4.2 Risks assessment

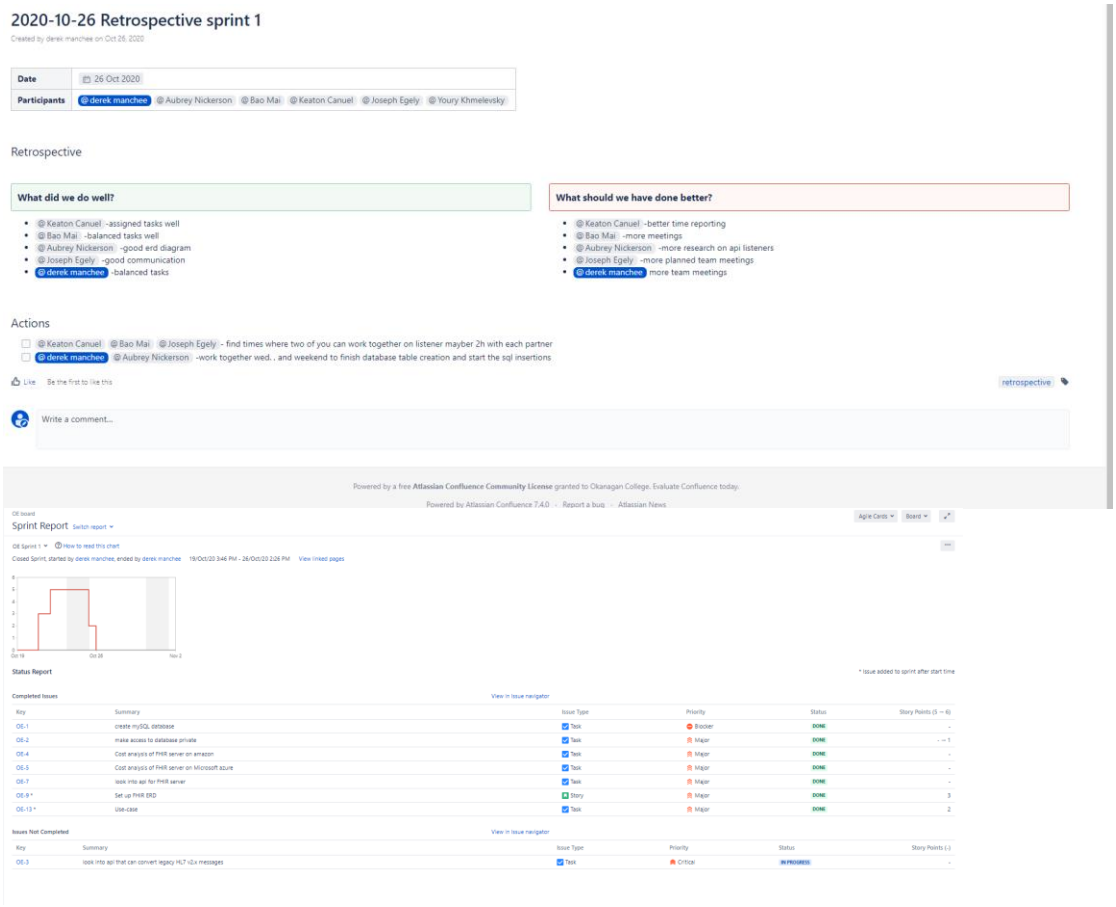
	Acceptable	Tolerable	Critical
Not Likely			Server crash
Possible			
Probable	Midterms		

- Midterms-other class midterms might take away developer's time and make scheduling meetings harder
    - To deal with this some members will have to work on own a lot more outside meetings and keeping team members up to date on project status with Jira and discord will be more important
- Server crash or Deletion of repository- (unlikely, major impact)
    - To prevent total loss of project team developers will store code locally and backup local files periodically

3 Schedule

- Elaboration
  - November 2, 2020
    - Project management schedule finished
    - Systems Requirements started
    - Design document 50% done
    - Business document done
    - Listener finished
    - Backend set up for v2.1 message testing
  - November 4, 2020
    - Meeting with client
    - Configuration documentation started
- Construction Sprint
  - November 9, 2020
    - System Requirements and Design Documentation finished (update as necessary
  - November 16,2020
    - Project set up for v2.8 messages
    - Start on graphic user interface to interact with database and show patient information
  - November 18, 2020
    - Meeting with client
- Transfer Sprint
  - November 23, 2020
    - fix anything that still is not working
    - Refactor code
    - All documentation Updated
    - Change documents to latex
  - December 4, 2020
    - Project ready GUI is developed with search functionality based off first and/or last name and listener, sorting and storing messages works for v2.x HL7 messages
    - End of final sprint submit project
  - December 7, 2020
    - Present project

Appendix A Sprint 1 Retrospective, Backlog and Standups



2020-10-26 Retrospective sprint 1

Created by derek manchee on Oct 26, 2020

Date	26 Oct 2020
Participants	@derek manchee @Aubrey Nickerson @Bao Mai @Keaton Canuel @Joseph Egely @Youry Khmelevsky

Retrospective

What did we do well?

- @Keaton Canuel -assigned tasks well
- @Bao Mai -balanced tasks well
- @Aubrey Nickerson -good erd diagram
- @Joseph Egely -good communication
- @derek manchee -balanced tasks

What should we have done better?

- @Keaton Canuel -better time reporting
- @Bao Mai -more meetings
- @Aubrey Nickerson -more research on api listeners
- @Joseph Egely -more planned team meetings
- @derek manchee more team meetings

Actions

- [ ] @Keaton Canuel @Bao Mai @Joseph Egely - find times where two of you can work together on listener mayber 2h with each partner
- [ ] @derek manchee @Aubrey Nickerson -work together wed. , and weekend to finish database table creation and start the sql insertions

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retrospective

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OE board

Sprint Report Switch report

Agile Cards Board

OE Sprint 1 How to read this chart

Closed Sprint, started by derek manchee, ended by derek manchee 19/Oct/20 3:46 PM - 26/Oct/20 2:26 PM View linked pages

Oct 18 Oct 28 Nov 2

Status Report

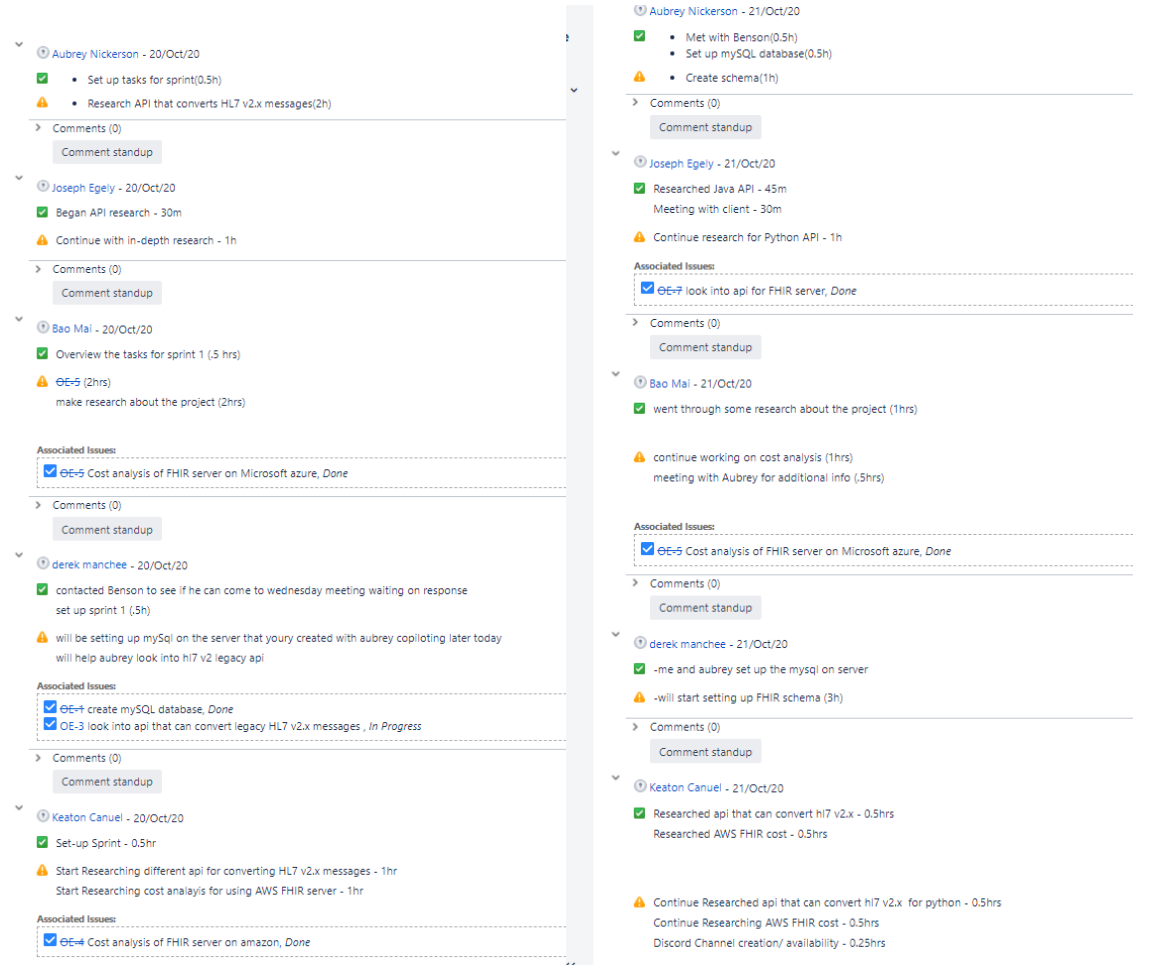
* Issue added to sprint after start time

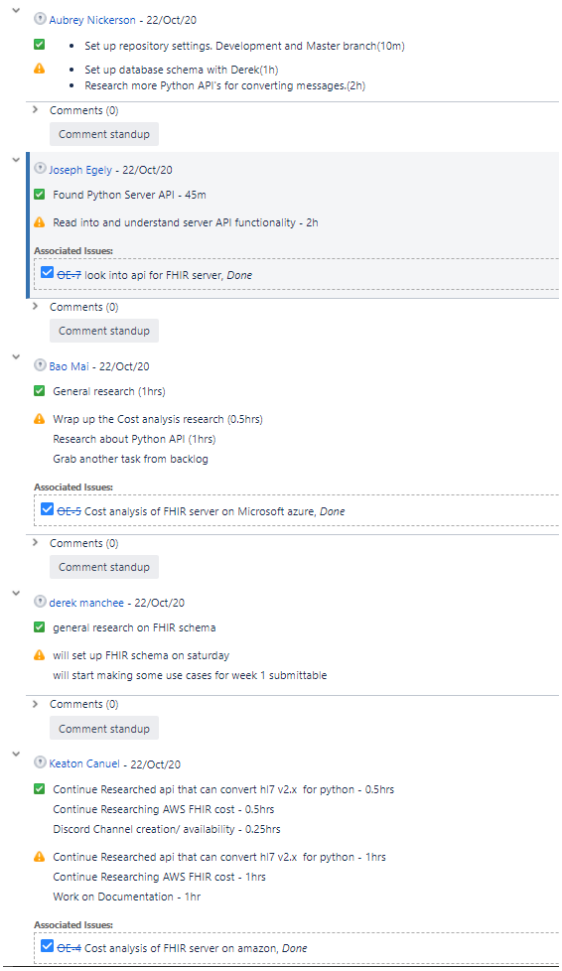
Completed Issues View in issue navigator

Key	Summary	Issue Type	Priority	Status	Story Points (5 → 6)
OE-1	create mySQL database	Task	Blocker	DONE	-
OE-2	make access to database private	Task	Major	DONE	- → 1
OE-4	Cost analysis of FHIR server on amazon	Task	Major	DONE	-
OE-5	Cost analysis of FHIR server on Microsoft azure	Task	Major	DONE	-
OE-7	look into api for FHIR server	Task	Major	DONE	-
OE-9 *	Set up FHIR ERD	Story	Major	DONE	3
OE-13 *	Use-case	Task	Major	DONE	2

Issues Not Completed View in issue navigator

Key	Summary	Issue Type	Priority	Status	Story Points (-)
OE-3	look into api that can convert legacy HL7 v2.x messages	Task	Critical	IN PROGRESS	-


Aubrey Nickerson - 20/Oct/20
Set up tasks for sprint(0.5h)
Research API that converts HL7 v2.x messages(2h)
Comments (0)
Comment standup
Joseph Egely - 20/Oct/20
Began API research - 30m
Continue with in-depth research - 1h
Comments (0)
Comment standup
Bao Mai - 20/Oct/20
Overview the tasks for sprint 1 (.5 hrs)
~~OE-5~~ (2hrs)
make research about the project (2hrs)
Associated Issues:
~~OE-5~~ Cost analysis of FHIR server on Microsoft azure, Done
Comments (0)
Comment standup
derek manchee - 20/Oct/20
contacted Benson to see if he can come to wednesday meeting waiting on response
set up sprint 1 (.5h)
will be setting up mySql on the server that youry created with aubrey copiloting later today
will help aubrey look into hl7 v2 legacy api
Associated Issues:
~~OE-1~~ create mySQL database, Done
OE-3 look into api that can convert legacy HL7 v2.x messages , In Progress
Comments (0)
Comment standup
Keaton Canuel - 20/Oct/20
Set-up Sprint - 0.5hr
Start Researching different api for converting HL7 v2.x messages - 1hr
Start Researching cost analayis for using AWS FHIR server - 1hr
Associated Issues:
~~OE-4~~ Cost analysis of FHIR server on amazon, Done
Aubrey Nickerson - 21/Oct/20
Met with Benson(0.5h)
Set up mySQL database(0.5h)
Create schema(1h)
Comments (0)
Comment standup
Joseph Egely - 21/Oct/20
Researched Java API - 45m
Meeting with client - 30m
Continue research for Python API - 1h
Associated Issues:
~~OE-7~~ look into api for FHIR server, Done
Comments (0)
Comment standup
Bao Mai - 21/Oct/20
went through some research about the project (1hrs)
continue working on cost analysis (1hrs)
meeting with Aubrey for additional info (.5hrs)
Associated Issues:
~~OE-5~~ Cost analysis of FHIR server on Microsoft azure, Done
Comments (0)
Comment standup
derek manchee - 21/Oct/20
-me and aubrey set up the mysql on server
-will start setting up FHIR schema (3h)
Comments (0)
Comment standup
Keaton Canuel - 21/Oct/20
Researched api that can convert hl7 v2.x - 0.5hrs
Researched AWS FHIR cost - 0.5hrs
Continue Researched api that can convert hl7 v2.x for python - 0.5hrs
Continue Researching AWS FHIR cost - 0.5hrs
Discord Channel creation/ availability - 0.25hrs


Aubrey Nickerson - 22/Oct/20
Set up repository settings. Development and Master branch(10m)
Set up database schema with Derek(1h)
Research more Python API's for converting messages.(2h)
Comments (0)
Comment standup
Joseph Egely - 22/Oct/20
Found Python Server API - 45m
Read into and understand server API functionality - 2h
Associated Issues:
~~OE-7~~ look into api for FHIR server, Done
Comments (0)
Comment standup
Bao Mai - 22/Oct/20
General research (1hrs)
Wrap up the Cost analysis research (0.5hrs)
Research about Python API (1hrs)
Grab another task from backlog
Associated Issues:
~~OE-5~~ Cost analysis of FHIR server on Microsoft azure, Done
Comments (0)
Comment standup
derek manchee - 22/Oct/20
general research on FHIR schema
will set up FHIR schema on saturday
will start making some use cases for week 1 submittable
Comments (0)
Comment standup
Keaton Canuel - 22/Oct/20
Continue Researched api that can convert hl7 v2.x for python - 0.5hrs
Continue Researching AWS FHIR cost - 0.5hrs
Discord Channel creation/ availability - 0.25hrs
Continue Researched api that can convert hl7 v2.x for python - 1hrs
Continue Researching AWS FHIR cost - 1hrs
Work on Documentation - 1hr
Associated Issues:
~~OE-4~~ Cost analysis of FHIR server on amazon, Done

Appendix B Sprint 2 Retrospective, Backlog and Standups

2020-11-16 Retrospective

Created by derek manchee on Nov 16, 2020

Date	09 Nov 2020
Participants	@derek manchee @Bao Mai @Aubrey Nickerson @Joseph Egely @Keaton Canuel

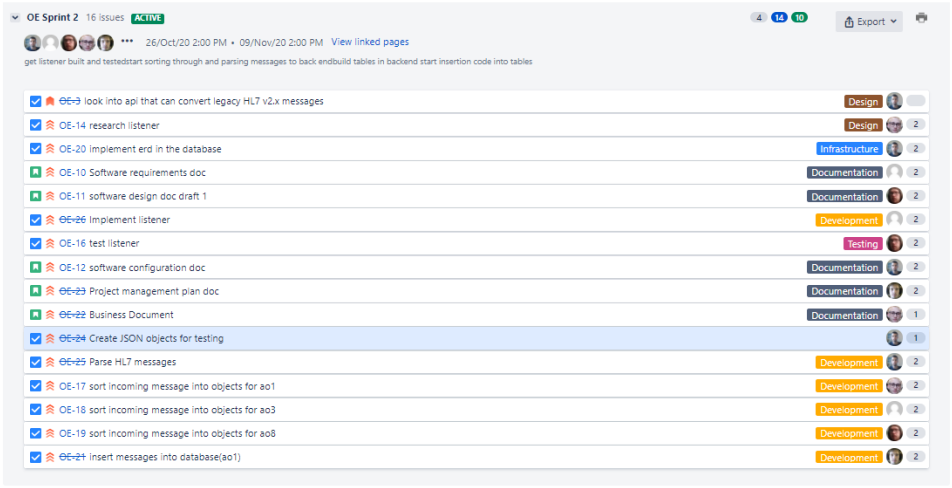
Retrospective

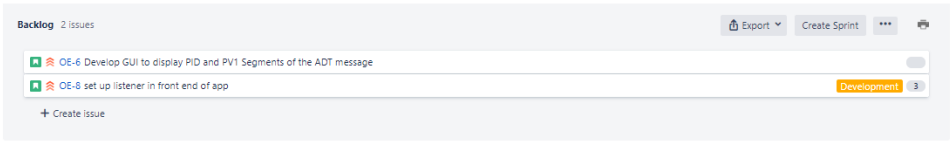
What did we do well?

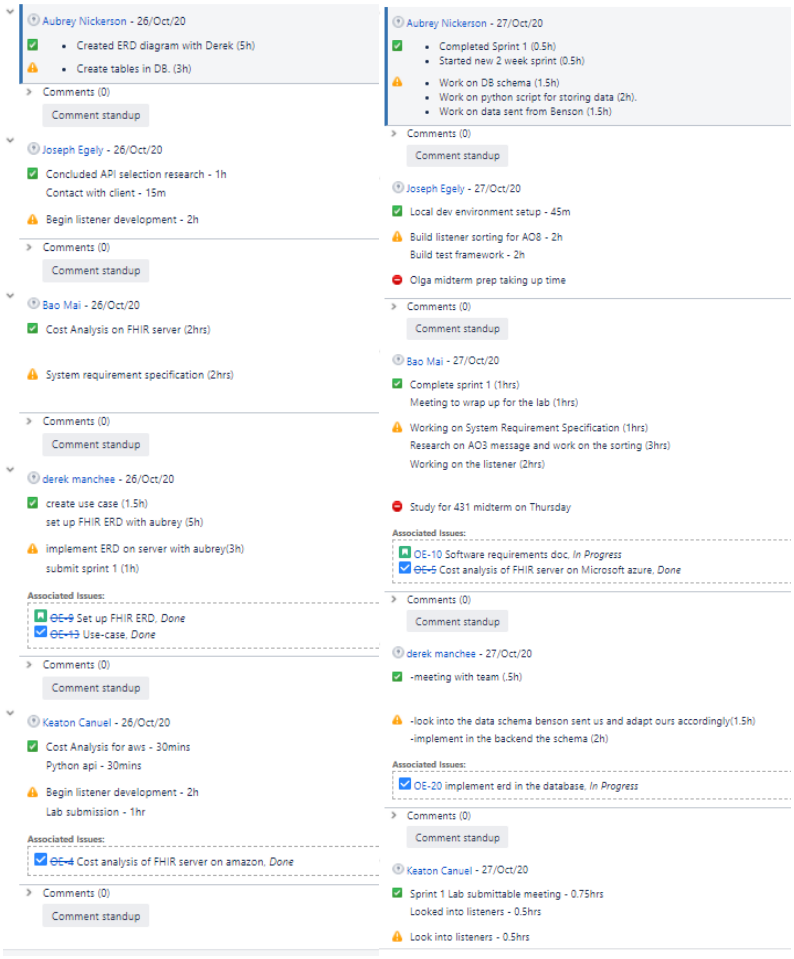
- @Joseph Egely -documentation and task completion
- @Keaton Canuel -even task assignment
- @Aubrey Nickerson -researching listener
- @Bao Mai -documentation and task completion
- @derek manchee -getting all tasks done

What should we have done better?

- @Joseph Egely - more meetings to work together on tasks
- @Keaton Canuel -better time management
- @Aubrey Nickerson -have more effective meetings
- @Bao Mai -attend meetings
- @derek manchee -do not miss scheduled meeting or give notice if you will







Aubrey Nickerson - 26/Oct/20

- Created ERD diagram with Derek (5h)
- Create tables in DB. (3h)

Comments (0)

Comment standup

Joseph Egely - 26/Oct/20

Concluded API selection research - 1h
Contact with client - 15m

Begin listener development - 2h

Comments (0)

Comment standup

Bao Mai - 26/Oct/20

Cost Analysis on FHIR server (2hrs)

System requirement specification (2hrs)

Comments (0)

Comment standup

derek manchee - 26/Oct/20

create use case (1.5h)
set up FHIR ERD with aubrey (5h)

implement ERD on server with aubrey(3h)
submit sprint 1 (1h)

Associated Issues:

~~OE-9~~ Set up FHIR ERD, *Done*
~~OE-13~~ Use-case, *Done*

Comments (0)

Comment standup

Keaton Canuel - 26/Oct/20

Cost Analysis for aws - 30mins
Python api - 30mins

Begin listener development - 2h
Lab submission - 1hr

Associated Issues:

~~OE-4~~ Cost analysis of FHIR server on amazon, *Done*

Comments (0)

Comment standup

Aubrey Nickerson - 27/Oct/20

- Completed Sprint 1 (0.5h)
- Started new 2 week sprint (0.5h)
- Work on DB schema (1.5h)
- Work on python script for storing data (2h).
- Work on data sent from Benson (1.5h)

Comments (0)

Comment standup

Joseph Egely - 27/Oct/20

Local dev environment setup - 45m

Build listener sorting for AO8 - 2h
Build test framework - 2h

Olga midterm prep taking up time

Comments (0)

Comment standup

Bao Mai - 27/Oct/20

Complete sprint 1 (1hrs)
Meeting to wrap up for the lab (1hrs)

Working on System Requirement Specification (1hrs)
Research on AO3 message and work on the sorting (3hrs)
Working on the listener (2hrs)

Study for 431 midterm on Thursday

Associated Issues:

OE-10 Software requirements doc, *In Progress*
~~OE-5~~ Cost analysis of FHIR server on Microsoft azure, *Done*

Comments (0)

Comment standup

derek manchee - 27/Oct/20

-meeting with team (.5h)

-look into the data schema benson sent us and adapt ours accordingly(1.5h)
-implement in the backend the schema (2h)

Associated Issues:

OE-20 implement erd in the database, *In Progress*

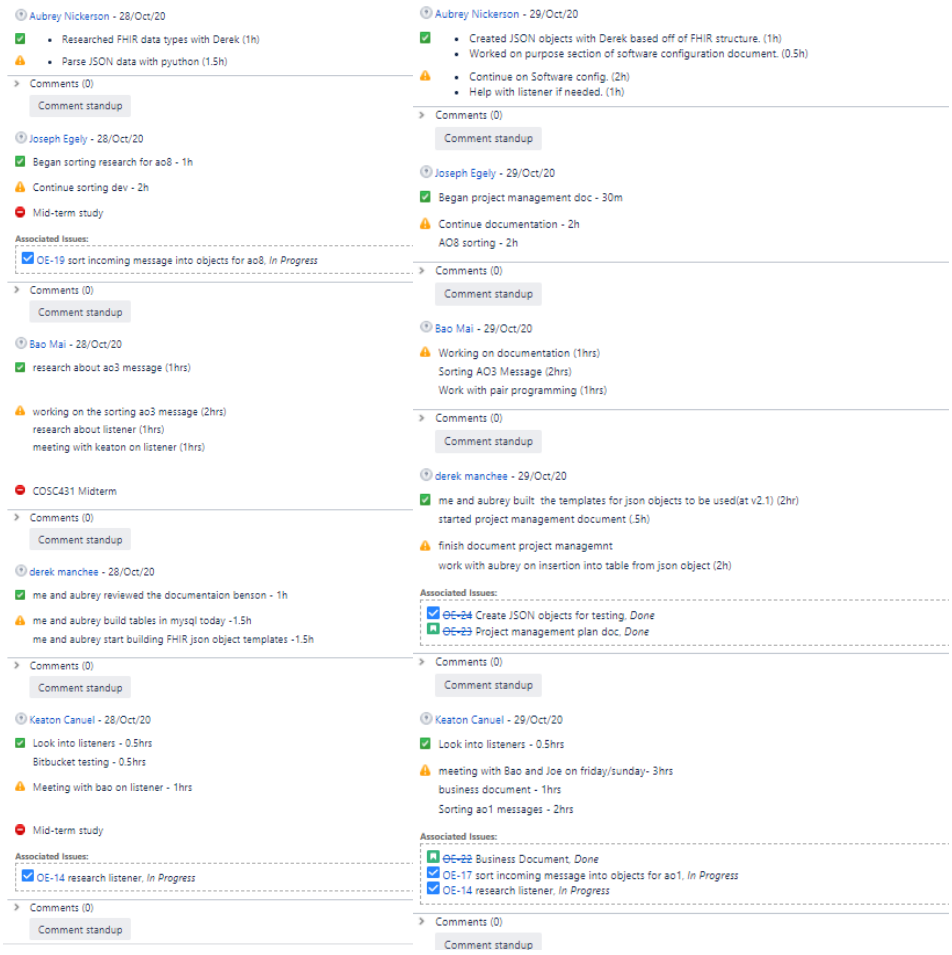
Comments (0)

Comment standup

Keaton Canuel - 27/Oct/20

Sprint 1 Lab submittable meeting - 0.75hrs
Looked into listeners - 0.5hrs

Look into listeners - 0.5hrs



Aubrey Nickerson - 28/Oct/20

- Researched FHIR data types with Derek (1h)
- Parse JSON data with pyuthon (1.5h)

Comments (0)

Comment standup

Joseph Egely - 28/Oct/20

Began sorting research for ao8 - 1h

Continue sorting dev - 2h

Mid-term study

Associated Issues:

OE-19 sort incoming message into objects for ao8, *In Progress*

Comments (0)

Comment standup

Bao Mai - 28/Oct/20

research about ao3 message (1hrs)

working on the sorting ao3 message (2hrs)
research about listener (1hrs)
meeting with keaton on listener (1hrs)

COSC431 Midterm

Comments (0)

Comment standup

derek manchee - 28/Oct/20

me and aubrey reviewed the documentaion benson - 1h

me and aubrey build tables in mysql today -1.5h
me and aubrey start building FHIR json object templates -1.5h

Comments (0)

Comment standup

Keaton Canuel - 28/Oct/20

Look into listeners - 0.5hrs
Bitbucket testing - 0.5hrs

Meeting with bao on listener - 1hrs

Mid-term study

Associated Issues:

OE-14 research listener, *In Progress*

Comments (0)

Comment standup

Aubrey Nickerson - 29/Oct/20

- Created JSON objects with Derek based off of FHIR structure. (1h)
- Worked on purpose section of software configuration document. (0.5h)
- Continue on Software config. (2h)
- Help with listener if needed. (1h)

Comments (0)

Comment standup

Joseph Egely - 29/Oct/20

Began project management doc - 30m

Continue documentation - 2h
AO8 sorting - 2h

Comments (0)

Comment standup

Bao Mai - 29/Oct/20

Working on documentation (1hrs)
Sorting AO3 Message (2hrs)
Work with pair programming (1hrs)

Comments (0)

Comment standup

derek manchee - 29/Oct/20

me and aubrey built the templates for json objects to be used(at v2.1) (2hr)
started project management document (.5h)

finish document project managemnt
work with aubrey on insertion into table from json object (2h)

Associated Issues:

~~OE-24~~ Create JSON objects for testing, *Done*
~~OE-23~~ Project management plan doc, *Done*

Comments (0)

Comment standup

Keaton Canuel - 29/Oct/20

Look into listeners - 0.5hrs

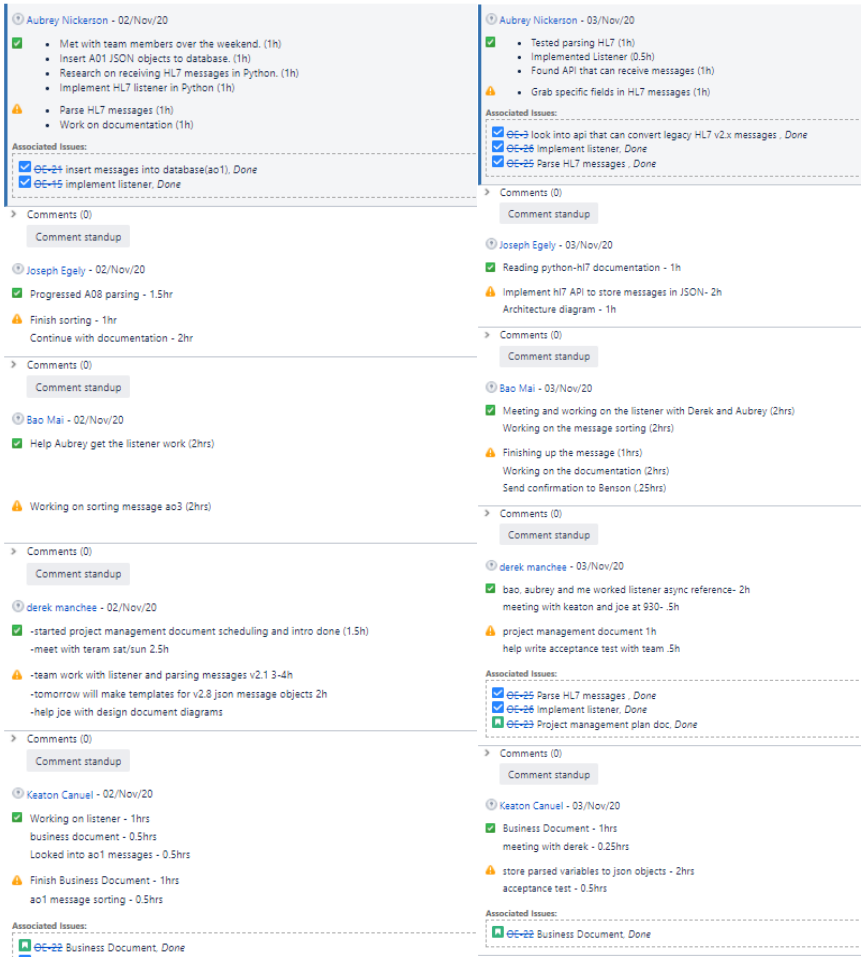
meeting with Bao and Joe on friday/sunday- 3hrs
business document - 1hrs
Sorting ao1 messages - 2hrs

Associated Issues:

~~OE-22~~ Business Document, *Done*
OE-17 sort incoming message into objects for ao1, *In Progress*
OE-14 research listener, *In Progress*

Comments (0)

Comment standup



Aubrey Nickerson - 02/Nov/20

- Met with team members over the weekend. (1h)
- Insert A01 JSON objects to database. (1h)
- Research on receiving HL7 messages in Python. (1h)
- Implement HL7 listener in Python (1h)

- Parse HL7 messages (1h)
- Work on documentation (1h)

Associated Issues:

~~OC-21~~ insert messages into database(ao1), *Done*
~~OC-15~~ implement listener, *Done*

Comments (0)

Comment standup

Joseph Egely - 02/Nov/20

Progressed A08 parsing - 1.5hr

Finish sorting - 1hr
Continue with documentation - 2hr

Comments (0)

Comment standup

Bao Mai - 02/Nov/20

Help Aubrey get the listener work (2hrs)

Working on sorting message ao3 (2hrs)

Comments (0)

Comment standup

derek manchee - 02/Nov/20

-started project management document scheduling and intro done (1.5h)
-meet with teram sat/sun 2.5h

-team work with listener and parsing messages v2.1 3-4h
-tomorrow will make templates for v2.8 json message objects 2h
-help joe with design document diagrams

Comments (0)

Comment standup

Keaton Canuel - 02/Nov/20

Working on listener - 1hrs
business document - 0.5hrs
Looked into ao1 messages - 0.5hrs

Finish Business Document - 1hrs
ao1 message sorting - 0.5hrs

Associated Issues:

~~OC-22~~ Business Document, *Done*

Aubrey Nickerson - 03/Nov/20

- Tested parsing HL7 (1h)
- Implemented Listener (0.5h)
- Found API that can receive messages (1h)

- Grab specific fields in HL7 messages (1h)

Associated Issues:

~~OC-3~~ look into api that can convert legacy HL7 v2.x messages , *Done*
~~OC-26~~ Implement listener, *Done*
~~OC-25~~ Parse HL7 messages , *Done*

Comments (0)

Comment standup

Joseph Egely - 03/Nov/20

Reading python-hl7 documentation - 1h

Implement hl7 API to store messages in JSON- 2h
Architecture diagram - 1h

Comments (0)

Comment standup

Bao Mai - 03/Nov/20

Meeting and working on the listener with Derek and Aubrey (2hrs)
Working on the message sorting (2hrs)

Finishing up the message (1hrs)
Working on the documentation (2hrs)
Send confirmation to Benson (.25hrs)

Comments (0)

Comment standup

derek manchee - 03/Nov/20

bao, aubrey and me worked listener async reference- 2h
meeting with keaton and joe at 930- .5h

project management document 1h
help write acceptance test with team .5h

Associated Issues:

~~OC-25~~ Parse HL7 messages , *Done*
~~OC-26~~ Implement listener, *Done*
~~OC-23~~ Project management plan doc, *Done*

Comments (0)

Comment standup

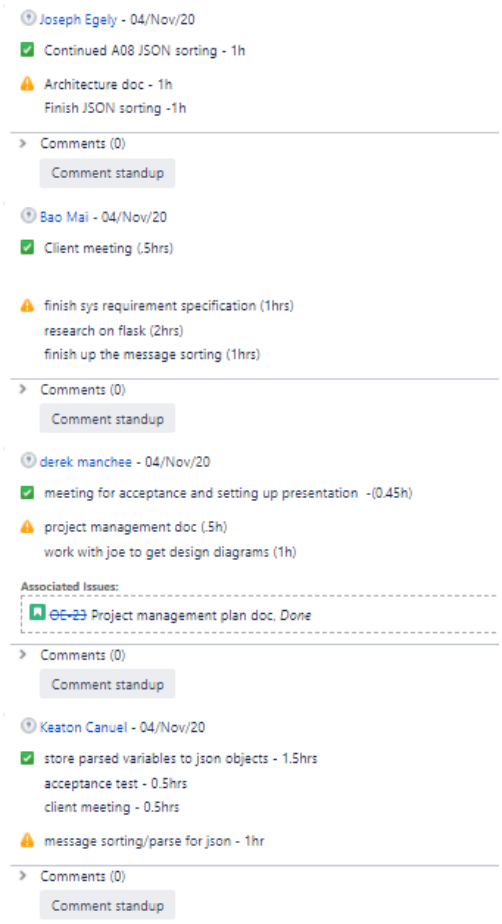
Keaton Canuel - 03/Nov/20

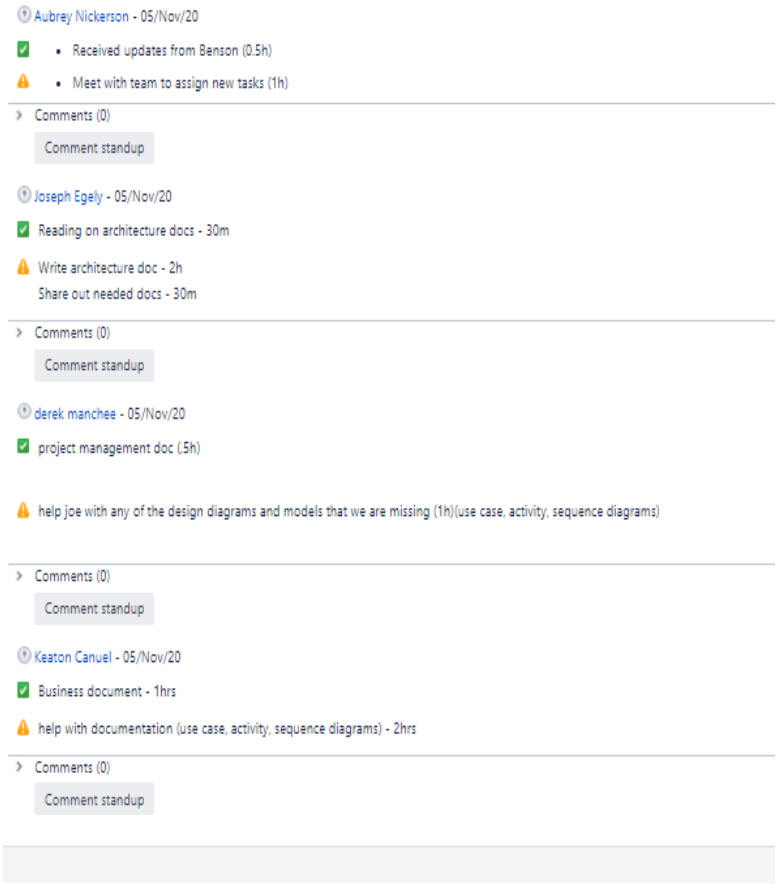
Business Document - 1hrs
meeting with derek - 0.25hrs

store parsed variables to json objects - 2hrs
acceptance test - 0.5hrs

Associated Issues:

~~OC-22~~ Business Document, *Done*


Joseph Egely - 04/Nov/20
Continued A08 JSON sorting - 1h
Architecture doc - 1h
Finish JSON sorting -1h
Comments (0)
Comment standup
Bao Mai - 04/Nov/20
Client meeting (.5hrs)
finish sys requirement specification (1hrs)
research on flask (2hrs)
finish up the message sorting (1hrs)
Comments (0)
Comment standup
derek manchee - 04/Nov/20
meeting for acceptance and setting up presentation -(0.45h)
project management doc (.5h)
work with joe to get design diagrams (1h)
Associated Issues:
~~OE-23~~ Project management plan doc. Done
Comments (0)
Comment standup
Keaton Canuel - 04/Nov/20
store parsed variables to json objects - 1.5hrs
acceptance test - 0.5hrs
client meeting - 0.5hrs
message sorting/parse for json - 1hr
Comments (0)
Comment standup



Aubrey Nickerson - 05/Nov/20

- Received updates from Benson (0.5h)
- Meet with team to assign new tasks (1h)

Comments (0)

Comment standup

Joseph Egely - 05/Nov/20

Reading on architecture docs - 30m

Write architecture doc - 2h

Share out needed docs - 30m

Comments (0)

Comment standup

derek manchee - 05/Nov/20

project management doc (.5h)

help joe with any of the design diagrams and models that we are missing (1h)(use case, activity, sequence diagrams)

Comments (0)

Comment standup

Keaton Canuel - 05/Nov/20

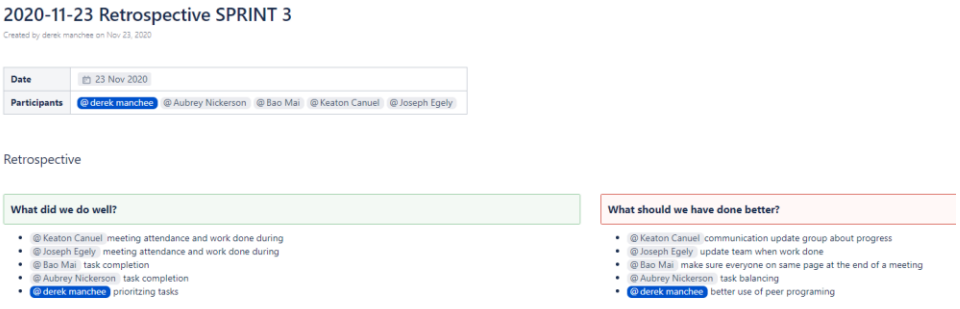
Business document - 1hrs

help with documentation (use case, activity, sequence diagrams) - 2hrs

Comments (0)

Comment standup

Appendix C Sprint 3 Retrospective, Backlog and Standups



2020-11-23 Retrospective SPRINT 3

Created by derek manchee on Nov 23, 2020

Date	23 Nov 2020
Participants	@derek manchee @Aubrey Nickerson @Bao Mai @Keaton Canuel @Joseph Egely

Retrospective

What did we do well?

- @Keaton Canuel meeting attendance and work done during
- @Joseph Egely meeting attendance and work done during
- @Bao Mai task completion
- @Aubrey Nickerson task completion
- @derek manchee prioritzing tasks

What should we have done better?

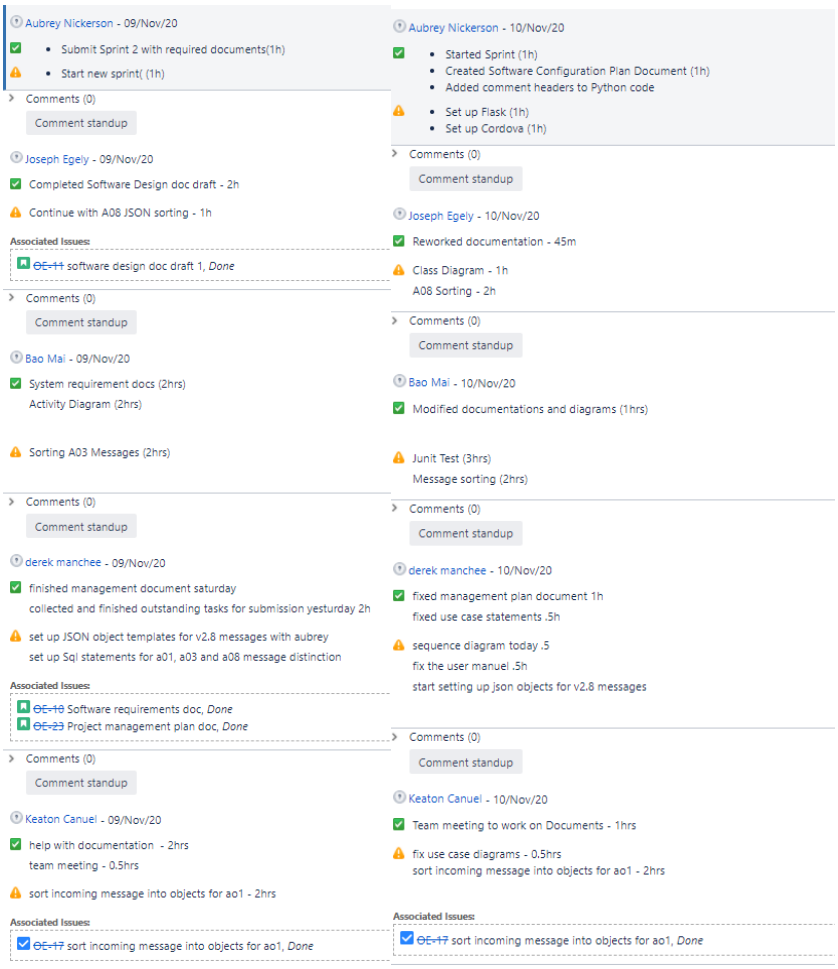
- @Keaton Canuel communication update group about progress
- @Joseph Egely update team when work done
- @Bao Mai make sure everyone on same page at the end of a meeting
- @Aubrey Nickerson task balancing
- @derek manchee better use of peer programing

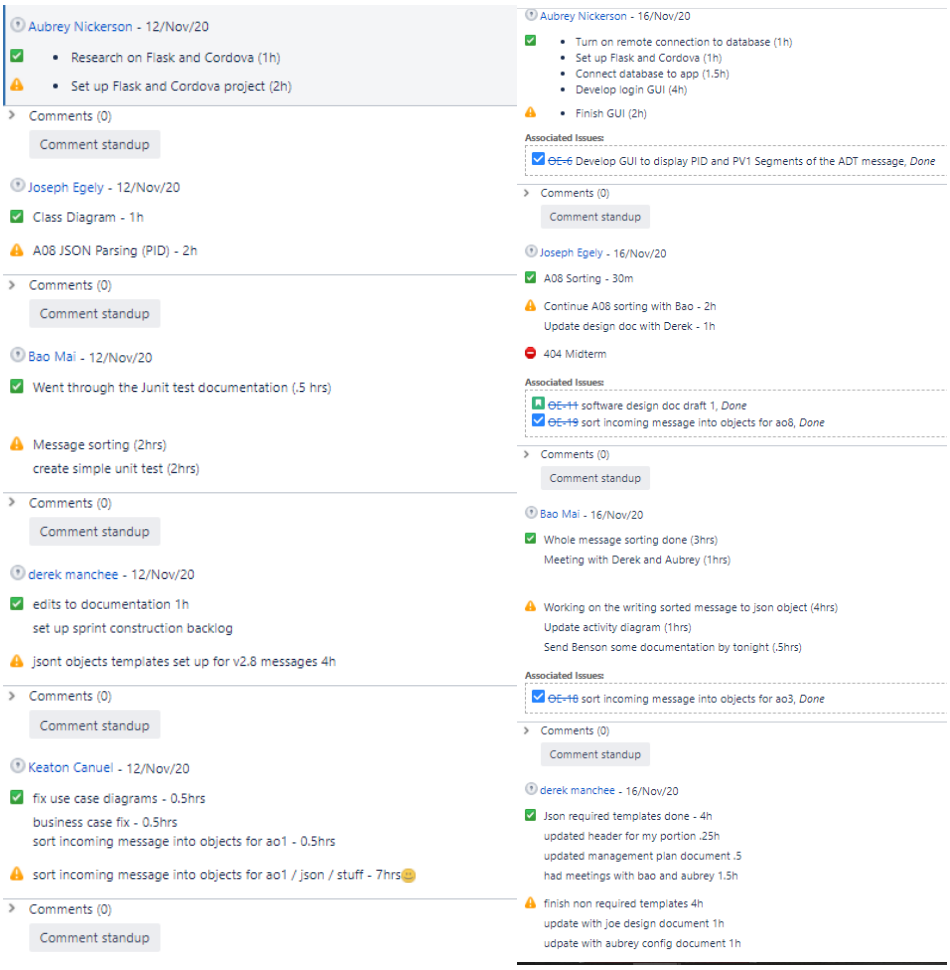
Completed Issues View in Issue navigator

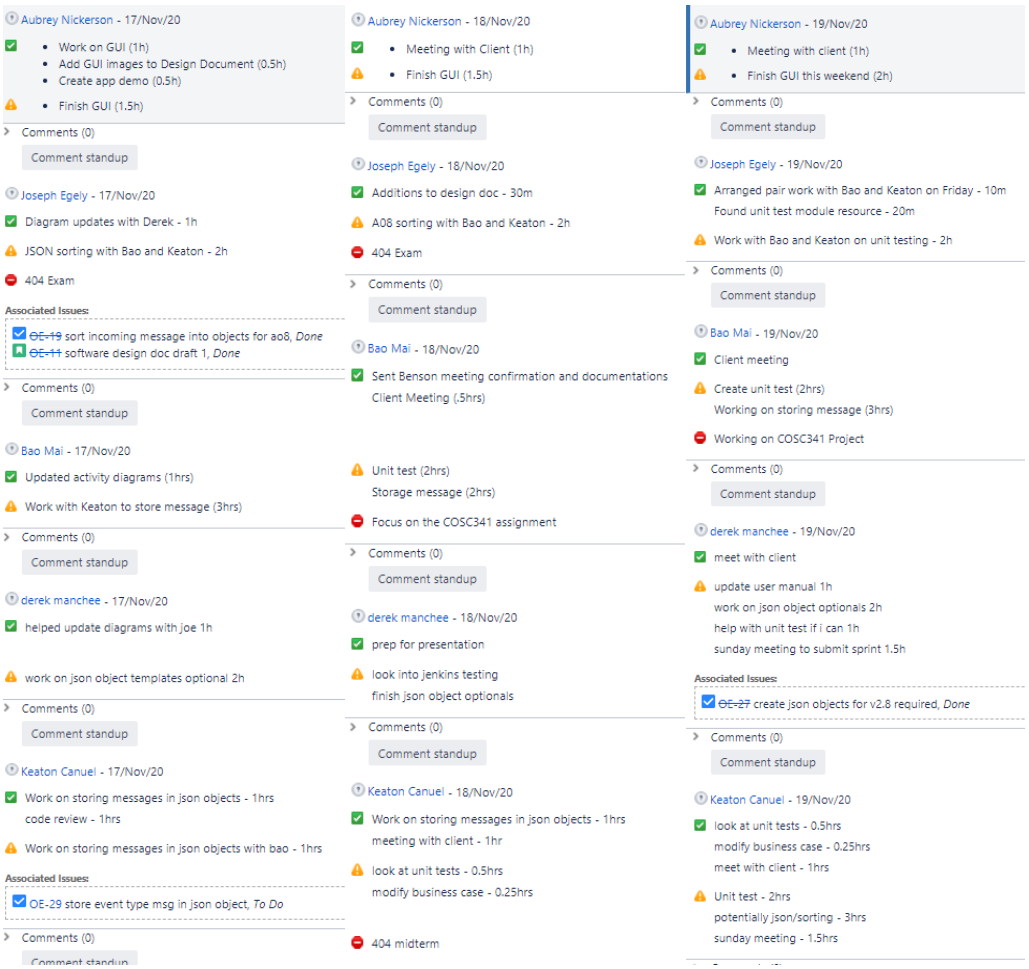
Key	Summary	Issue Type	Priority	Status	Story Points (16 → 22)
OE-6	Develop GUI to display PID and PV1 Segments of the ADT message	Task	Major	DONE	- → 4
OE-11	software design doc draft 1	Story	Major	DONE	2
OE-12	software configuration doc	Story	Major	DONE	2
OE-17	sort incoming message into objects for ao1	Task	Major	DONE	2
OE-18	sort incoming message into objects for ao3	Task	Major	DONE	2
OE-19	sort incoming message into objects for ao8	Task	Major	DONE	2
OE-27	create json objects for v2.8 required	Task	Major	DONE	2
OE-50 *	Set up Flask & Cordova	Task	Major	DONE	1
OE-51 *	Allow remote connection to database	Task	Major	DONE	1
OE-52 *	Test Flask and Cordova connection	Task	Major	DONE	1
OE-54 *	Test Cordova and Database Connection	Task	Major	DONE	1
OE-55 *	Create Unit test	Task	Major	DONE	- → 2

Issues Not Completed View in Issue navigator

Key	Summary	Issue Type	Priority	Status	Story Points (- → 1)
OE-28	store diagnosis msg in json object	Task	Major	TO DO	-
OE-29	store event type msg in json object	Task	Major	TO DO	- → 1
OE-30	store guarantor msg in json object	Task	Major	TO DO	-
OE-31	store patient identification msg in json object	Task	Major	TO DO	-
OE-32	store patient additional demographic msg in json object	Task	Major	TO DO	-
OE-33	store next of kin msg in json object	Task	Major	TO DO	-
OE-34	store patient visit msg in json object	Task	Major	TO DO	-
OE-35	store patient visit additional information msg in json object	Task	Major	TO DO	-
OE-36	store disability msg in json object	Task	Major	TO DO	-
OE-37	store observation/result msg in json object	Task	Major	TO DO	-
OE-38	store patient allergy information msg in json object	Task	Major	TO DO	-
OE-39	store diagnosis related group msg in json object	Task	Major	TO DO	-
OE-40	store procedures msg in json object	Task	Major	TO DO	-
OE-41	store insurance msg in json object	Task	Major	TO DO	-


Aubrey Nickerson - 09/Nov/20
Submit Sprint 2 with required documents(1h)
Start new sprint((1h)
Comments (0)
Comment standup
Joseph Egely - 09/Nov/20
Completed Software Design doc draft - 2h
Continue with A08 JSON sorting - 1h
Associated Issues:
OE-11 software design doc draft 1, Done
Comments (0)
Comment standup
Bao Mai - 09/Nov/20
System requirement docs (2hrs)
Activity Diagram (2hrs)
Sorting A03 Messages (2hrs)
Comments (0)
Comment standup
derek manchee - 09/Nov/20
finished management document saturday
collected and finished outstanding tasks for submission yesturday 2h
set up JSON object templates for v2.8 messages with aubrey
set up Sql statements for a01, a03 and a08 message distinction
Associated Issues:
OE-10 Software requirements doc, Done
OE-23 Project management plan doc, Done
Comments (0)
Comment standup
Keaton Canuel - 09/Nov/20
help with documentation - 2hrs
team meeting - 0.5hrs
sort incoming message into objects for ao1 - 2hrs
Associated Issues:
OE-17 sort incoming message into objects for ao1, Done
Aubrey Nickerson - 10/Nov/20
Started Sprint (1h)
Created Software Configuration Plan Document (1h)
Added comment headers to Python code
Set up Flask (1h)
Set up Cordova (1h)
Comments (0)
Comment standup
Joseph Egely - 10/Nov/20
Reworked documentation - 45m
Class Diagram - 1h
A08 Sorting - 2h
Comments (0)
Comment standup
Bao Mai - 10/Nov/20
Modified documentations and diagrams (1hrs)
Junit Test (3hrs)
Message sorting (2hrs)
Comments (0)
Comment standup
derek manchee - 10/Nov/20
fixed management plan document 1h
fixed use case statements .5h
sequence diagram today .5
fix the user manuel .5h
start setting up json objects for v2.8 messages
Comments (0)
Comment standup
Keaton Canuel - 10/Nov/20
Team meeting to work on Documents - 1hrs
fix use case diagrams - 0.5hrs
sort incoming message into objects for ao1 - 2hrs
Associated Issues:
OE-17 sort incoming message into objects for ao1, Done


Aubrey Nickerson - 12/Nov/20
Research on Flask and Cordova (1h)
Set up Flask and Cordova project (2h)
Comments (0)
Comment standup
Joseph Egely - 12/Nov/20
Class Diagram - 1h
A08 JSON Parsing (PID) - 2h
Comments (0)
Comment standup
Bao Mai - 12/Nov/20
Went through the Junit test documentation (.5 hrs)
Message sorting (2hrs)
create simple unit test (2hrs)
Comments (0)
Comment standup
derek manchee - 12/Nov/20
edits to documentation 1h
set up sprint construction backlog
jsont objects templates set up for v2.8 messages 4h
Comments (0)
Comment standup
Keaton Canuel - 12/Nov/20
fix use case diagrams - 0.5hrs
business case fix - 0.5hrs
sort incoming message into objects for ao1 - 0.5hrs
sort incoming message into objects for ao1 / json / stuff - 7hrs
Comments (0)
Comment standup
Aubrey Nickerson - 16/Nov/20
Turn on remote connection to database (1h)
Set up Flask and Cordova (1h)
Connect database to app (1.5h)
Develop login GUI (4h)
Finish GUI (2h)
Associated Issues:
~~OE-6~~ Develop GUI to display PID and PV1 Segments of the ADT message, Done
Comments (0)
Comment standup
Joseph Egely - 16/Nov/20
A08 Sorting - 30m
Continue A08 sorting with Bao - 2h
Update design doc with Derek - 1h
404 Midterm
Associated Issues:
~~OE-11~~ software design doc draft 1, Done
~~OE-19~~ sort incoming message into objects for ao8, Done
Comments (0)
Comment standup
Bao Mai - 16/Nov/20
Whole message sorting done (3hrs)
Meeting with Derek and Aubrey (1hrs)
Working on the writing sorted message to json object (4hrs)
Update activity diagram (1hrs)
Send Benson some documentation by tonight (.5hrs)
Associated Issues:
~~OE-18~~ sort incoming message into objects for ao3, Done
Comments (0)
Comment standup
derek manchee - 16/Nov/20
Json required templates done - 4h
updated header for my portion .25h
updated management plan document .5
had meetings with bao and aubrey 1.5h
finish non required templates 4h
update with joe design document 1h
udpate with aubrey config document 1h



Aubrey Nickerson - 17/Nov/20
- Work on GUI (1h)
- Add GUI images to Design Document (0.5h)
- Create app demo (0.5h)
- Finish GUI (1.5h)

Comments (0)
Comment standup

Joseph Egely - 17/Nov/20
Diagram updates with Derek - 1h
JSON sorting with Bao and Keaton - 2h
404 Exam

Associated Issues:
~~OE-19~~ sort incoming message into objects for ao8, *Done*
~~OE-11~~ software design doc draft 1, *Done*

Comments (0)
Comment standup

Bao Mai - 17/Nov/20
Updated activity diagrams (1hrs)
Work with Keaton to store message (3hrs)

Comments (0)
Comment standup

derek manchee - 17/Nov/20
helped update diagrams with joe 1h
work on json object templates optional 2h

Comments (0)
Comment standup

Keaton Canuel - 17/Nov/20
Work on storing messages in json objects - 1hrs
code review - 1hrs
Work on storing messages in json objects with bao - 1hrs

Associated Issues:
OE-29 store event type msg in json object, *To Do*

Comments (0)
Comment standup

Aubrey Nickerson - 18/Nov/20
- Meeting with Client (1h)
- Finish GUI (1.5h)

Comments (0)
Comment standup

Joseph Egely - 18/Nov/20
Additions to design doc - 30m
A08 sorting with Bao and Keaton - 2h
404 Exam

Comments (0)
Comment standup

Bao Mai - 18/Nov/20
Sent Benson meeting confirmation and documentations
Client Meeting (.5hrs)
Unit test (2hrs)
Storage message (2hrs)
Focus on the COSC341 assignment

Comments (0)
Comment standup

derek manchee - 18/Nov/20
prep for presentation
look into jenkins testing
finish json object optionals

Comments (0)
Comment standup

Keaton Canuel - 18/Nov/20
Work on storing messages in json objects - 1hrs
meeting with client - 1hr
look at unit tests - 0.5hrs
modify business case - 0.25hrs
404 midterm

Aubrey Nickerson - 19/Nov/20
- Meeting with client (1h)
- Finish GUI this weekend (2h)

Comments (0)
Comment standup

Joseph Egely - 19/Nov/20
Arranged pair work with Bao and Keaton on Friday - 10m
Found unit test module resource - 20m
Work with Bao and Keaton on unit testing - 2h

Comments (0)
Comment standup

Bao Mai - 19/Nov/20
Client meeting
Create unit test (2hrs)
Working on storing message (3hrs)
Working on COSC341 Project

Comments (0)
Comment standup

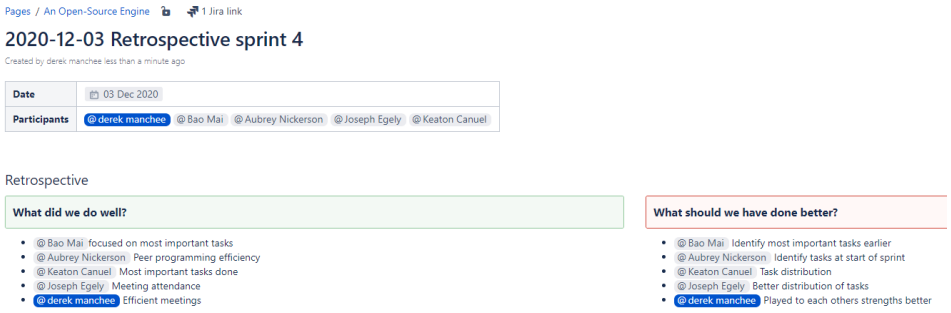
derek manchee - 19/Nov/20
meet with client
update user manual 1h
work on json object optionals 2h
help with unit test if i can 1h
sunday meeting to submit sprint 1.5h

Associated Issues:
~~OE-27~~ create json objects for v2.8 required, *Done*

Comments (0)
Comment standup

Keaton Canuel - 19/Nov/20
look at unit tests - 0.5hrs
modify business case - 0.25hrs
meet with client - 1hrs
Unit test - 2hrs
potentially json/sorting - 3hrs
sunday meeting - 1.5hrs

Appendix D Sprint 4 Retrospective, Backlog and Standups



Pages / An Open-Source Engine 1 Jira link

2020-12-03 Retrospective sprint 4

Created by derek manchee less than a minute ago

Date	03 Dec 2020
Participants	@derek manchee @Bao Mai @Aubrey Nickerson @Joseph Egely @Keaton Canuel

Retrospective

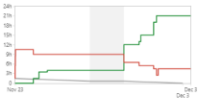
What did we do well?	What should we have done better?
@Bao Mai focused on most important tasks	@Bao Mai Identify most important tasks earlier
@Aubrey Nickerson Peer programming efficiency	@Aubrey Nickerson Identify tasks at start of sprint
@Keaton Canuel Most important tasks done	@Keaton Canuel Task distribution
@Joseph Egely Meeting attendance	@Joseph Egely Better distribution of tasks
@derek manchee Efficient meetings	@derek manchee Played to each others strengths better

OE board

Sprint Report Switch report

OE Sprint 4 How to read this chart

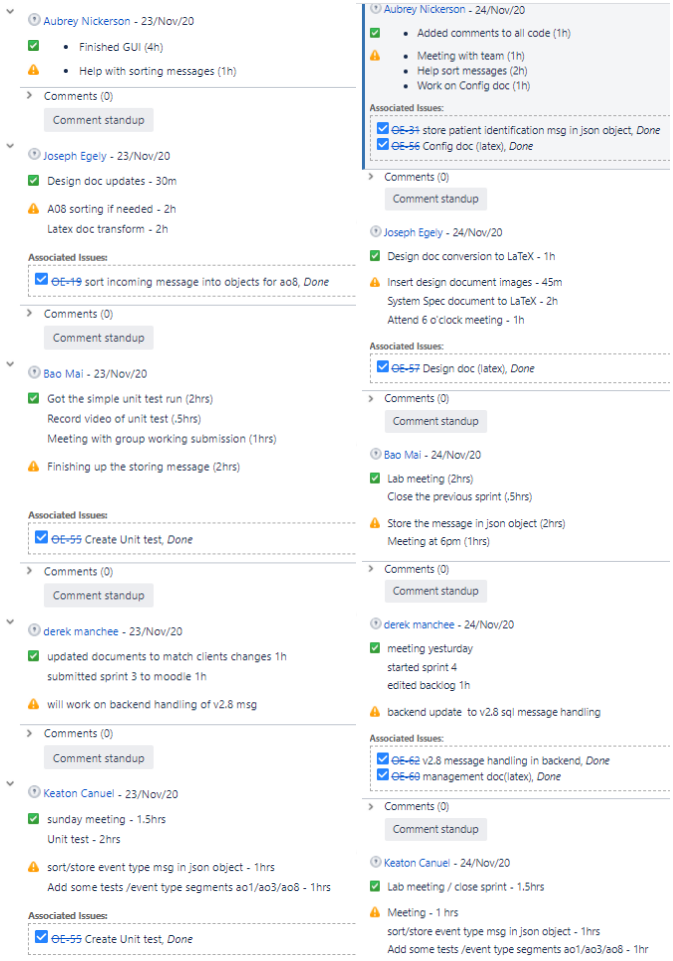
Closed Sprint, started by derek manchee, ended by derek manchee 23/Nov/20 2:22 PM - 03/Dec/20 10:14 PM View linked pages



Status Report

Completed Issues View in issue navigator

Key	Summary	Issue Type	Priority	Status
OE-29	store event type msg in json object	Task	Major	DONE
OE-31	store patient identification msg in json object	Task	Major	DONE
OE-34	store patient visit msg in json object	Task	Major	DONE
OE-35	store patient visit additional information msg in json object	Task	Major	DONE
OE-36	Config doc (latex)	Task	Major	DONE
OE-57	Design doc (latex)	Task	Major	DONE
OE-58	software spec doc (latex)	Task	Major	DONE
OE-59	Business doc (latex)	Task	Major	DONE
OE-60	management doc(latex)	Task	Major	DONE
OE-61	Use case doc (latex)	Task	Major	DONE
OE-62	v2.8 message handling in backend	Task	Major	DONE



Aubrey Nickerson - 23/Nov/20

- Finished GUI (4h)
- Help with sorting messages (1h)

Comments (0)

Comment standup

Joseph Egely - 23/Nov/20

Design doc updates - 30m

A08 sorting if needed - 2h

Latex doc transform - 2h

Associated Issues:

~~OE-19~~ sort incoming message into objects for ao8, *Done*

Comments (0)

Comment standup

Bao Mai - 23/Nov/20

Got the simple unit test run (2hrs)

Record video of unit test (.5hrs)

Meeting with group working submission (1hrs)

Finishing up the storing message (2hrs)

Associated Issues:

~~OE-55~~ Create Unit test, *Done*

Comments (0)

Comment standup

derek manchee - 23/Nov/20

updated documents to match clients changes 1h

submitted sprint 3 to moodle 1h

will work on backend handling of v2.8 msg

Comments (0)

Comment standup

Keaton Canuel - 23/Nov/20

sunday meeting - 1.5hrs

Unit test - 2hrs

sort/store event type msg in json object - 1hrs

Add some tests /event type segments ao1/ao3/ao8 - 1hrs

Associated Issues:

~~OE-55~~ Create Unit test, *Done*

Aubrey Nickerson - 24/Nov/20

- Added comments to all code (1h)
- Meeting with team (1h)
- Help sort messages (2h)
- Work on Config doc (1h)

Associated Issues:

~~OE-31~~ store patient identification msg in json object, *Done*

~~OE-56~~ Config doc (latex), *Done*

Comments (0)

Comment standup

Joseph Egely - 24/Nov/20

Design doc conversion to LaTeX - 1h

Insert design document images - 45m

System Spec document to LaTeX - 2h

Attend 6 o'clock meeting - 1h

Associated Issues:

~~OE-57~~ Design doc (latex), *Done*

Comments (0)

Comment standup

Bao Mai - 24/Nov/20

Lab meeting (2hrs)

Close the previous sprint (.5hrs)

Store the message in json object (2hrs)

Meeting at 6pm (1hrs)

Comments (0)

Comment standup

derek manchee - 24/Nov/20

meeting yesturday

started sprint 4

edited backlog 1h

backend update to v2.8 sql message handling

Associated Issues:

~~OE-62~~ v2.8 message handling in backend, *Done*

~~OE-60~~ management doc(latex), *Done*

Comments (0)

Comment standup

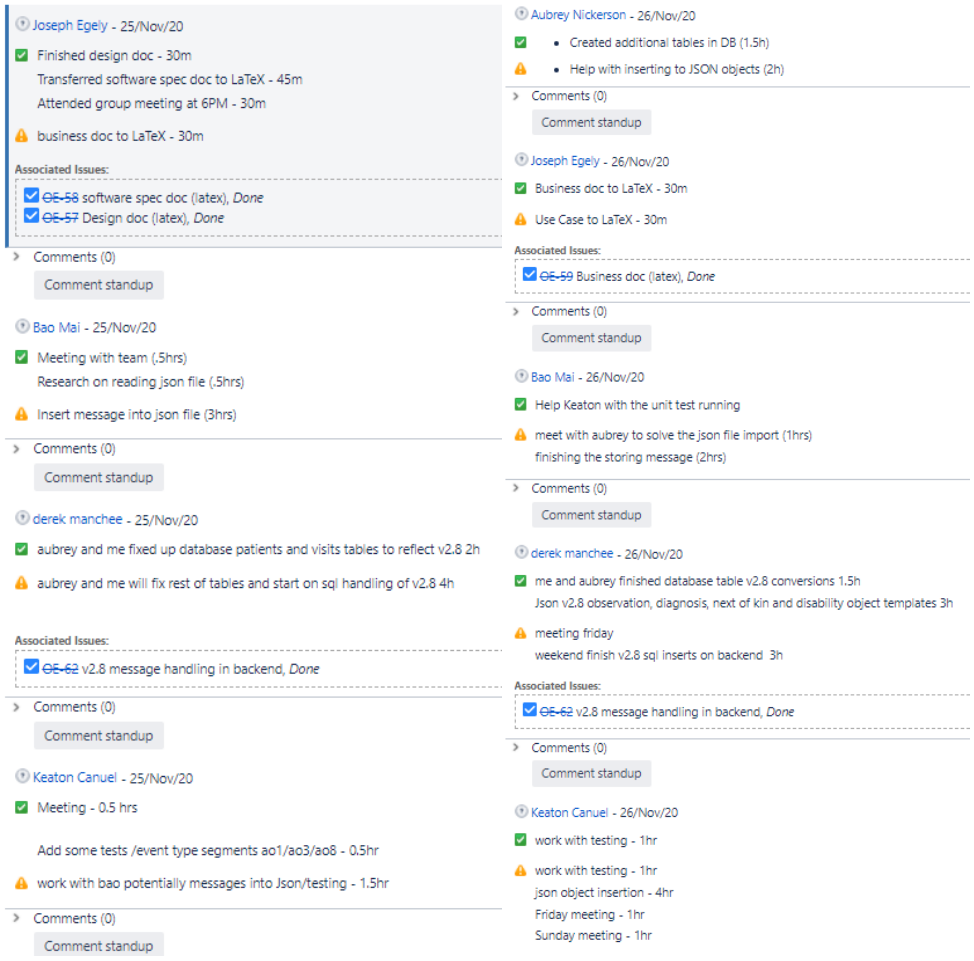
Keaton Canuel - 24/Nov/20

Lab meeting / close sprint - 1.5hrs

Meeting - 1 hrs

sort/store event type msg in json object - 1hrs

Add some tests /event type segments ao1/ao3/ao8 - 1hr



Joseph Egely - 25/Nov/20

Finished design doc - 30m
Transferred software spec doc to LaTeX - 45m
Attended group meeting at 6PM - 30m

business doc to LaTeX - 30m

Associated Issues:

~~OE-58~~ software spec doc (latex), *Done*
~~OE-57~~ Design doc (latex), *Done*

Comments (0)
Comment standup

Bao Mai - 25/Nov/20

Meeting with team (.5hrs)
Research on reading json file (.5hrs)

Insert message into json file (3hrs)

Comments (0)
Comment standup

derek manchee - 25/Nov/20

aubrey and me fixed up database patients and visits tables to reflect v2.8 2h

aubrey and me will fix rest of tables and start on sql handling of v2.8 4h

Associated Issues:

~~OE-62~~ v2.8 message handling in backend, *Done*

Comments (0)
Comment standup

Keaton Canuel - 25/Nov/20

Meeting - 0.5 hrs

Add some tests /event type segments ao1/ao3/ao8 - 0.5hr

work with bao potentially messages into Json/testing - 1.5hr

Comments (0)
Comment standup

Aubrey Nickerson - 26/Nov/20

- Created additional tables in DB (1.5h)
- Help with inserting to JSON objects (2h)

Comments (0)
Comment standup

Joseph Egely - 26/Nov/20

Business doc to LaTeX - 30m

Use Case to LaTeX - 30m

Associated Issues:

~~OE-59~~ Business doc (latex), *Done*

Comments (0)
Comment standup

Bao Mai - 26/Nov/20

Help Keaton with the unit test running

meet with aubrey to solve the json file import (1hrs)
finishing the storing message (2hrs)

Comments (0)
Comment standup

derek manchee - 26/Nov/20

me and aubrey finished database table v2.8 conversions 1.5h
Json v2.8 observation, diagnosis, next of kin and disability object templates 3h

meeting friday
weekend finish v2.8 sql inserts on backend 3h

Associated Issues:

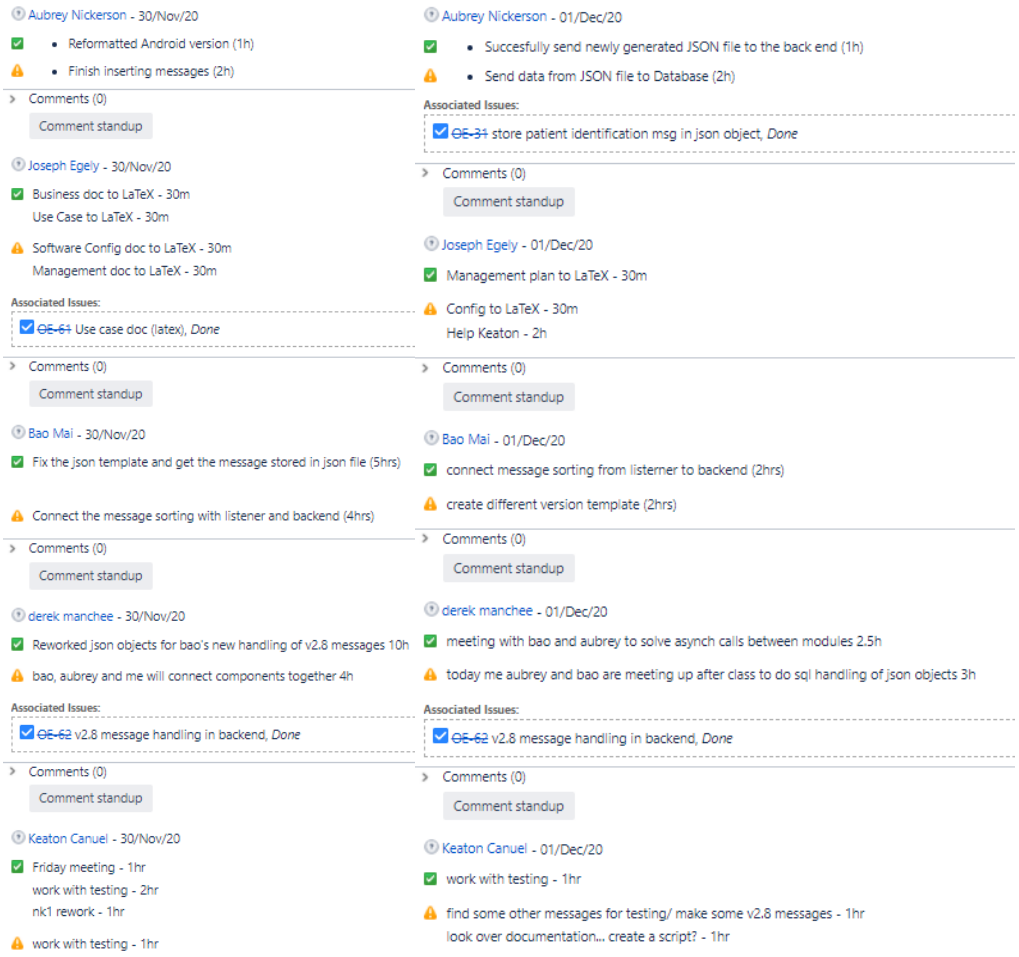
~~OE-62~~ v2.8 message handling in backend, *Done*

Comments (0)
Comment standup

Keaton Canuel - 26/Nov/20

work with testing - 1hr

work with testing - 1hr
json object insertion - 4hr
Friday meeting - 1hr
Sunday meeting - 1hr



Aubrey Nickerson - 30/Nov/20

- Reformatted Android version (1h)
- Finish inserting messages (2h)

Comments (0)

Comment standup

Joseph Egely - 30/Nov/20

Business doc to LaTeX - 30m

Use Case to LaTeX - 30m

Software Config doc to LaTeX - 30m

Management doc to LaTeX - 30m

Associated Issues:

~~OE-61~~ Use case doc (latex), *Done*

Comments (0)

Comment standup

Bao Mai - 30/Nov/20

Fix the json template and get the message stored in json file (5hrs)

Connect the message sorting with listener and backend (4hrs)

Comments (0)

Comment standup

derek manchee - 30/Nov/20

Reworked json objects for bao's new handling of v2.8 messages 10h

bao, aubrey and me will connect components together 4h

Associated Issues:

~~OE-62~~ v2.8 message handling in backend, *Done*

Comments (0)

Comment standup

Keaton Canuel - 30/Nov/20

Friday meeting - 1hr

work with testing - 2hr

nk1 rework - 1hr

work with testing - 1hr

Aubrey Nickerson - 01/Dec/20

- Succesfully send newly generated JSON file to the back end (1h)
- Send data from JSON file to Database (2h)

Associated Issues:

~~OE-31~~ store patient identification msg in json object, *Done*

Comments (0)

Comment standup

Joseph Egely - 01/Dec/20

Management plan to LaTeX - 30m

Config to LaTeX - 30m

Help Keaton - 2h

Comments (0)

Comment standup

Bao Mai - 01/Dec/20

connect message sorting from listerner to backend (2hrs)

create different version template (2hrs)

Comments (0)

Comment standup

derek manchee - 01/Dec/20

meeting with bao and aubrey to solve asynch calls between modules 2.5h

today me aubrey and bao are meeting up after class to do sql handling of json objects 3h

Associated Issues:

~~OE-62~~ v2.8 message handling in backend, *Done*

Comments (0)

Comment standup

Keaton Canuel - 01/Dec/20

work with testing - 1hr

find some other messages for testing/ make some v2.8 messages - 1hr

look over documentation... create a script? - 1hr

Aubrey Nickerson - 03/Dec/20

- Meeting with client (1h)
- Fix table search functionality (1h)
- Prepare for presentation (3h)

Associated Issues:

- ~~OE-31~~ store patient identification msg in json object, *Done*
- ~~OE-62~~ v2.8 message handling in backend, *Done*
- ~~OE-34~~ store patient visit msg in json object, *Done*

Comments (0)

Comment standup

Joseph Egely - 03/Dec/20

Client meeting - 1h

Meeting at 10PM - 1h

Review documentation - 1h

Comments (0)

Comment standup

Bao Mai - 03/Dec/20

Update the json template (2hrs)

keep updating (2hrs)

lab meeting (1hrs)

Comments (0)

Comment standup

derek manchee - 03/Dec/20

meeting 1h

submission meeting 10pm 1h

build ppt intro hl7 messaging and the company 2h

Comments (0)

Comment standup

Keaton Canuel - 03/Dec/20

message Testing - 1hr

look over documentation - 0.5hrs

finish up testing/ send to bao for Monday presentation - 1hr

create a script for Mondays presentation/ figure out how I will go over my documents - 2hr

Meeting tonight - 1hr

Sunday meeting - 1hr