Cedar Maintenance and Development Guide - DRAFT

This document is intended to guide future Cedar maintainers through updating annual measure updates as well as give some direction to potential new development opportunities.

# Required Skill Set

1. Mac computer skills – The Cedar OS of choice is Mac.
2. Ruby on Rails (<http://rubyonrails.org)>. Ideally future Cedar owners already have a solid working knowledge of Ruby on Rails, but if not, the following links may be helpful.
   1. <http://rubyonrails.org/>
   2. <https://learnrubythehardway.org/book/>
   3. <https://www.codecademy.com/learn/learn-rails> - one of many online courses available.
   4. <http://www.zenspider.com/ruby/quickref.html> - A ruby syntax quick reference.
3. Mongo – Cedar is backed by a Mongo db
   1. <https://www.mongodb.com>
   2. <https://robomongo.org> - A really useful Mongo db tool.
4. Github & Git experience – The Cedar code repository is hosted at the link below.
   1. https://github.com/mitre/cedar
5. Software testing skills using Rspec and FactoryGirl
   1. <http://rspec.info>
   2. <https://github.com/thoughtbot/factory_girl>
6. Atom is the current editor used for Cedar. Use any editor you like, but Cedar was developed with Atom using several packages that speed up development and encourage good coding practices including rubocop and linter.
   1. <https://atom.io>
7. Trello – The Cedar Issue tracker. Again, use what works best for your team.
   1. <https://trello.com/b/lBrvVVCA/cedar-task-planning>
8. Open source experience with licensing Dave, can you elaborate here?

<https://vsac.nlm.nih.gov/#> search code numbers here. You need an NLM account.

# Maintenance Items

1. [Project Cedar Website](http://projectcedar.org/) – The gh-pages branch on Github holds the website pages. Be sure to update the Releases pages as appropriate.
2. [Cypress Project](https://github.com/projectcypress/cypress/wiki/Cypress-3-Install-Instructions) – Cedar imports (see Gemfile) 2 Cypress gems that are currently on specific branches because of Mongoid5 dependencies. Cypress also supports the Bonnie tool which has not yet moved to Mongoid 5. When Bonnie gets updated, the following gems can then point to the master branch.
   1. health-data-standards branch mongoid5
   2. quality-measure-engine branch bump\_mongoid
3. Cypress measure bundles – See readme.md in Cedar repository for directions on installing the bundles. Cedar currently has 3 measure bundles with the latest year being Meaninful Use Stage 2 Quality bundle for the year 2016. New measures are released annually in the spring. Information on Electronic Clinical Quality Improvement can be found on [this site](https://ecqi.healthit.gov/ecqi). Cypress will be responsible for creating the measure bundle after the annual release which can subsequently be uploaded into Cedar using the bundle\_import.sh script found in the repo. You will need and NLM account as stated in the readme.
4. Cedar updates are required after new Cypress bundles are uploaded. Search Cedar master branch code for ‘Update here after new bundle installed.’ and follow the instructions for updating data. [Dave, I need to make a script to pull out the new values. ]