

## Milestones:

**Milestone 1:** Set up our environment, dependencies and tech stack

*To be done by: Oct 4th, 2021*

### Sub-tasks:

- ☐ A github repo is created with our team members for the project **(Assigned: Henry)**
- ☐ We have a node project that is runnable and has a simple test suite **(Assigned: Daniel)**
  - ☐ Dependencies should be ready to install in one command
  - ☐ Running the project takes only one command after dependencies are built
  - ☐ Running test suites takes only one command after dependencies are built
  - ☐ Project functionality and test coverage is not required for this milestone
- ☐ The project is containerized in Docker **(Assigned: Stew)**
- ☐ Project is hosted on Heroku, deployed with our docker image **(Assigned: James)**
- ☐ A readme is provided in top level directory of the repo with: **(Assigned: Daniel/Henry)**
  - ☐ Instructions on installing and running the project
  - ☐ A summary of our tech stack and the relevant decision making
  - ☐ Milestones of the project with member ownership of each step
  - ☐ Directions to our collection of meeting notes

**Milestone 2:** Setting up DB and implementing basic functionality + unit tests

*To be done by: A2 deadline*

### Sub-tasks:

- ☐ Create db/schemas and populate our guideline definitions **(Assigned: James)**
  - ☐ Download a zip file of guidelines in json format from <https://build.fhir.org/ig/HL7/cqf-recommendations/definitions.json.zip>
  - ☐ Create a new database called "guidelinesdb"
  - ☐ Creates schemas
  - ☐ Create two collections for "plandefinitions" and "activitydefinitions"
  - ☐ Insert all of the plan/activity definitions from the zip file into the db
  - ☐ Verify that the db works by reading a few of the elements.
- ☐ We should be able to read a list of all guidelines and create a unit test to verify it's functionality. **(Assigned: Henry)**
- ☐ We should be able to retrieve a specific guideline and create a unit test to verify it's functionality. **(Assigned: Daniel)**
  - ☐ Creating different router endpoints depending on which guideline type is requested
- ☐ We should be able to add a new guideline to the db and create a unit test to verify it's functionality. **(Assigned: Stew)**

- ☐ We should additionally verify the above functionality using manual testing with Postman  
**(Assigned: Henry/Daniel/Stew; everybody does their own part)**

**Note:** We have decided to assign Milestone 3 responsibilities during Milestone 2, based on our experiences with the first 2 milestones.

**Milestone 3:** Additional functionality + unit tests, integration tests, documentation  
*To be done by: A3 deadline*

Sub-tasks:

- ☐ We should be able to update a guideline's json and create a unit test to verify it's functionality.
- ☐ We should be able to delete guidelines and create a unit test to verify it's functionality.
- ☐ We should additionally verify the above functionality using manual testing with Postman
- ☐ Our test coverage at the end is  $\geq 75\%$
- ☐ We have written integration tests to verify the following functionality:
  - ☐ adding a new guideline to DB
  - ☐ reading a list of all available guidelines
    - ☐ updating guideline's json with a new one
  - ☐ retrieve the guideline and verify contents
  - ☐ delete the guideline.
  - ☐ Should verify both activity and plan definition.
- ☐ We have either a website or readme in our github repo which documents the following:
  - ☐ What our project is about.
  - ☐ What the various API calls do, how to use them and an example.