*Patient Generator Gem:*

1. *Current Infrastructure*

**patient\_generator.rb** will feed measure argument and population selections to the execution context. Also contains functionality for generating out the patient object (including all fields), which is generated based on the execution context object

**execution\_context.rb** where all of the global variables, rules list and temporal web lives. Any change in the global variables (measure period, measure, populations, criteria list and rules list) will reconfigure the other data components in the execution context.

**rules.rb** base class for a rule. All rule classes will have an execute function that will fire when any global variablethat is used as a part of the rule is changed.

**temporal\_reference.rb** class representing temporal references. Has a lower bound and upper bound data attribute, along with a function to check if a date is within the bounds.

\*need to implement an observer on temporal references, so that way if something changes that will effect the bounds of the calss (for example, if a reference is “SBS” measure period….. need to change the temporal reference if the measure period ever changes)

**data\_criteria\_helper.rb** takes in a measure and selected populations, and strips out a raw data criteria list.

