Revised Schedule

CSC 491*

September 28 – October 9
• Research Sinatra (a Ruby application development micro-framework)
• Create a workaround for a Ruby interpreter bug which prevented the standard email-sending library from working
• Set up boilerplate Sinatra code
• Build support for sending emails from the application to the user
• Determine (tentative) input “language”
• Research text parsing and processing

October 12 – October 23
• Abandon Sinatra due to inappropriateness for project
• Plan data structures to use in application
• Research best practices for large-scale email receiving and processing with Ruby
• Research best practices for handling recurring and/or scheduled tasks with Ruby

October 26 – November 13
• Build prototype of application as planned in previous milestone

November 16 – December 11
• Abandon prototype due to excessive and unnecessary complexity resulting from inappropriate data structures and the relationships between them
• Plan and test alternate data structures for appropriateness
• Research Treetop, a parser generator written in Ruby
• Research parsing expression grammars
• Revise input language
• Revise planned features (see below)
• Write Treetop grammar to create a parser that accepts the input language
• Create boilerplate Rails application for project
• Rename project “Harmony”

* This schedule was written at the end of CSC 491 to reflect what actually happened during the course of the project.
Revised Schedule

CSC 492*

January 4 – January 29
• Build data structures into Rails application as planned
• Integrate parser and Rails application
• Test application
• Build a rudimentary browser–based interface for testing purposes

February 1 – February 26
• Set up email server and related cron jobs according to best practices
• Build support for sending/receiving messages from the application

March 1 – March 12
• Perform administrative project tasks (writing summaries, submitting to Kennedy Library, etc.)

* Although the milestones are somewhat long periods, I will be checking in every two weeks with progress updates.