SLC grammar

last updated: 18-Sep-14 17:45

highlighted items are specified but not implemented yet

<command line> ::= <command> [! <command>]

<command> ::= <keyword> <data> [, <data>]

<keyword> ::= "state" | "complaint" | "diff" | "link"

| "add" | "req" <qualifier>

| "rec" <qualifier> | "recc" <qualifier>

| “bill” <qualifier>

|"assess" | "data" <data> | “dataqual” <completed qualifier> <data>

| "delete" | "reset"

| "VS" <vs-qualifier> <data>

| "validate" | "ignore"

<qualifier> ::= "hpi" | "exam" | “ros” | “pfsh”

<completed qualifier> ::= | “examdetailed” | “examcomp”

<vs-qualifier> ::= "p" | "r" | "t" | "sbp" | "dbp"

<data> ::= simple text

Semantics:

* "state" resets the SLC state, and provides the presenting complaint
  + resets contents of the status.txt file
  + resets and starts dashboard
  + ~~needs to be additive, not resetting – ditto "complaint" below~~
* "complaint" is identical to "state", except:
  + if "complaint" has already been seen, "state" is ignored
  + thus, "complaint" takes precedence over "state"
* "diff" provides the information provided in the differential diagnosis section of the dashboard; only the last one seen is honored
* "link" provides a URL for a resource
  + these become active links, so the URL needs to be valid
* "req" adds "data" to the required list specified by <qualifier> (**NOTE**: this list is now labeled “Recommended” in the dashboard.)
  + e.g., "req hpi onset" adds "onset" to the required HPI list
* "assess" add "data" to the required assessment list
* "add" adds "data" to the required HPI list **(currently ignored by SLC)**
* "rec" adds "data" to the recommended list specified by <qualifier>
  + there are no recommended assessments
  + "recc" is a synonym for "rec" and accesses the same code path
* "data" records a <data> item that has been completed
  + <data> is removed from the incomplete list in which it was found
  + <data> is added to the completed list for the correct category (required, recommended, assessments)
  + if <data> has not been added to a list with a "req", "rec", or "add" (in other words, if the procedure hadn't been listed earlier), it is ignored *– should this change so that we don’t have to pre-announce what exams are going to be covered in an ROS or PFSH?*
* “dataqual” records a qualified data item that has been completed
  + <completed qualifier> is one of “examdetailed” (for a detailed exam completed), “examcomp” (for a comprehensive exam completed)
  + <data> is detail about the exam completed
* “bill” adds items to the specified billing category – these are logged as completed by a “data” or “dataqual” command
* "delete" is informational, telling the SLC the information attached to a keyword has been deleted on the EHR page **(currently ignored by SLC)**
* "reset" resets the state of the dashboard to base – no complaint, no elements
* "VS" provides data for a vital sign. If the vs-qualifier is not recognized the data is ignored. The vital signs are assumed to arrive in the order taken (that is, in increasing offset through the EHR) and only the last one is stored and evaluated by SLC.
  + *Enhancement for later: a VS bp which would provide both sbp & dbp as, e.g., VS bp 125/93.*
* "validate" causes the SLC to validate the current data, confirming all required elements are present and ensuring that the provided vital signs are within expected limits. If any of these conditions are not met, a warning will be added to the dashboard.
* "ignore" causes the SLC to remove the warning box on the dashboard. The last of *validate* and *ignore* seen is the one that takes effect.
* comparisons for <data> ignore decoration such as the brackets and asterisks in "[\*\*\*Onset\*\*\*]"

Example flow:

* begin exam – SLC receives required HPI and Exam items which will be listed on the dashboard
* billing scoring sent to SLC – “bill hpi location, severity, timing, quality, … ! bill ros constitutional, eyes, ENT, …”
* exam items are closed in EHR & MU sends notification to SLC via “data” commands, including for billing items
  + if an item is in both the billing list and the exam list – e.g., we’ve seen “req hpi location” and “bill hpi location”, a “data location” counts against both
* items taken off the required HPI & exam lists score in the recommended panel & progress bar
* items taken off the billing list score in the billing panel