SLC grammar

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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>

|"assess" | "data" <data>

| "delete" | "reset"

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

| "validate"

<qualifier> ::= "hpi" | "exam"

<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>
  + 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
* "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 by the 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.
* comparisons for <data> ignore decoration such as the brackets and asterisks in "[\*\*\*Onset\*\*\*]"