# VA.GOV – Find Forms Tool Improved Search Logic

The new logic involves using a new Ruby gem called pg\_search (<https://github.com/Casecommons/pg_search>) as well as custom VA logic around form names. Below we have split out the responsibilities for each module. The pg\_search module is an open source library and cannot be easily changed. The VA logic is done on the vets-api side and can be configured.

Pg\_search:

1. Provides the spell correction
2. Searches based on the “distance” to words. (“Certificate Eligibility” will match a title “Request for a Certificate of Eligibility” before “Request a certificate of a new burial eligibility”
3. Trigrams. Words the “sound” similar will match. Collyflower = Cauliflower

VA

1. Checks for form number format and “tweaks”. (Example: 1010 becomes 10%10, sf52 becomes SF-52)
2. Removes “va” and “form” from query
3. Removes trailing and leading whitespace
4. Convert case (example: va40 becomes VA40)
5. Has a faster (direct query) if form input is correct (10-10EZ vs “va form 1010 ez)
6. Breaks “ties” from pg\_search to rank based on top 70 forms from here:

<https://github.com/department-of-veterans-affairs/va.gov-team/issues/19170#issuecomment-812033214>

Graphical user interface, website

Description automatically generated