

# DOCUMENTATION (Search the BIBLE)

## Libraries imported:

- nlTK – natural language tool kit for tokenizing and stemming
- math – to perform sqrt and logarithms
- csv – to read the csv file
- flask – for all the flask components like flash-messages, templates, etc.,

## Functions in app module:

*readData()*:

To read data from the dataset and load it into the datastructures

*EditDistance(s1, s2, m, n)*:

returns the minimum number operations to convert string-s1 to string-s2

*getMinWord(terms, word)*:

Returns a term in terms which requires least number of operations to convert to given word

*getSuffix(terms, word)*:

Returns a term in terms whose suffix is the given word

*getResults(query)*:

Returns the top relevant results for the query

*multiply(a, b)*:

Returns the sum of the product of the corresponding elements in both the lists

*getDocDetails(docname)*:

Returns the document with the (docname)

*searchResults(query):*

Returns the page with the top 10 relevant search results

*displayDoc(docname):*

Returns the document with given docname

*index():*

Returns the home page with search bar

## HTML:

layout.html:

basic layout of the all pages such as the title and extends to other pages.

document.html:

displays the selected document.

\_navbar.html:

For the navigation bar.

searchResults.html:

shows the search results as a list of document names

home.html:

home page containing the search bar and which shows the results upon searching.

\_messages.html:

Helps display the flash messages