README

Methodology:

- First, we have applied preprocessing on each document, like converting it into lower-case, taking only letters, tokenizing, lemmatization, and removing stopwords, and storing it into a JSON(preprocessData.json) file.
- The preprocessData.json file is used to create the indexing,inverted index and posting of the document and then store it into indexing.json, invertedIndexing.json and postinglist.json file.
- In indexing, we create a dictionary; Here, the key is word and value is a dictionary in which key is the document file, and the count is the word frequency in that document Like this:
  {word : {key1:count1, key2:count2}, word2:{key1:count1}}
- In Inverted indexing we created a dictionary, in this dictionary, key is the word, and the and value is the index we provide to that word; here, we start indexing from 101.
- In the posting, we create a dictionary, and in this dictionary, the key is the index of the word and value is a dictionary, and the key is a document, and value is how many times that word comes in that document.
- **Queries:**

  And merge:

  We are simply matching in both the lists. If matches then increase in i and j of both list and store in the document list and if list[i] < list[j] then increase in i and else increase in j. And when any of the list end operations is terminated. And on increase the compare for all the operation.

  OR merge:

  In this, we are simply matching in both the lists. If both are the same at i and j index, then append the document in doc list and increase compare. If the first list index i value is smaller than the other, we will store it in doc and increase it. If vice-versa, then increase j and store the document of the second list that index document in doc and increase compare. If anyone ends, the other one will append all its documents in the doc.

  AND NOT merge:

  The AND NOT function we are checking if it is true for i and false case for j then we will print the title of i doc,Else we will move to the next index.

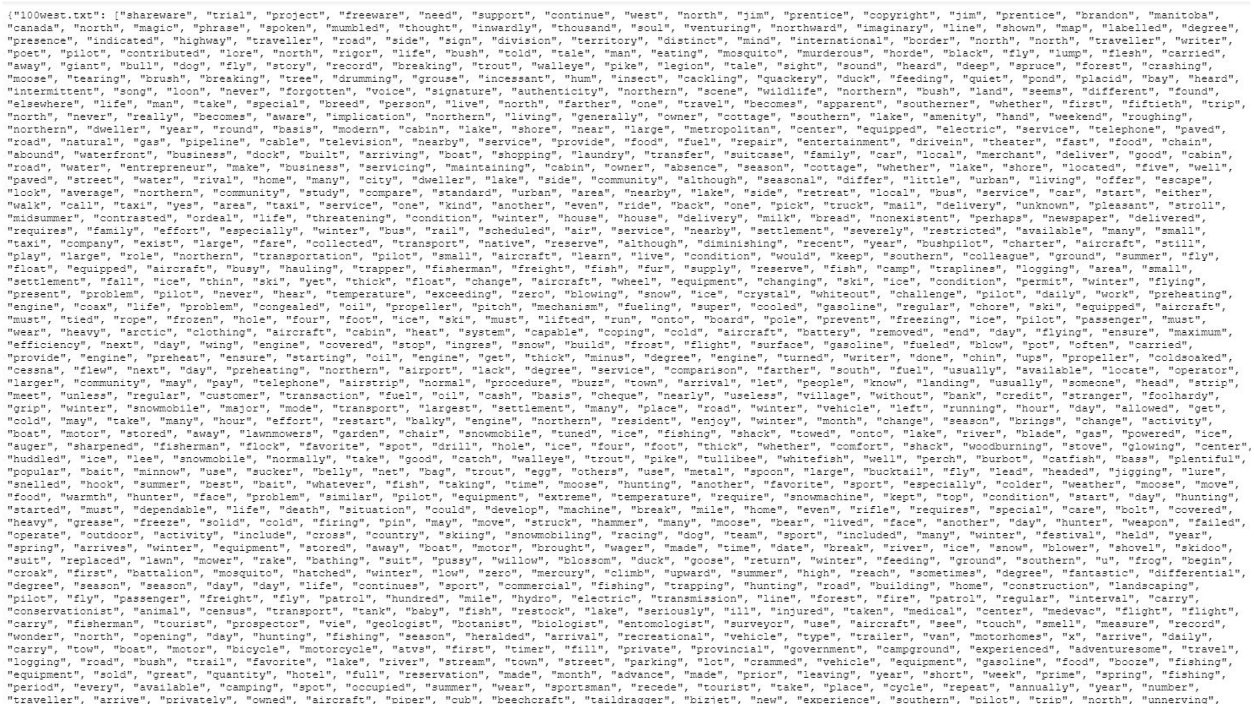
  OR NOT merge:

  The OR_NOT function is considering all the titles we will only consider query “i or not j” as “not i and j” and extract these titles from all title lists.

<u>PreProcessing Steps:</u>

- Using a listdir() function to list all the files and sending this list to the "def preprocessing_data(files)" function and "files" are the list of files.
- In "def preprocessing_data(files)," first, we create a dictionary named as preprocessedData this dictionary contains the file name as key and preprocessed data as values.
- Ignoring FARNON, SRE, index, and all "." files like ".header."
- Sending the file for preprocessing in lower-case to function "preprocessing."
- "def preprocessing(texts)" function, this function follows the following steps:
    - String of lower case
    - Remove all the non-letters
    - Tokenizations of words
    - Removing stopwords
    - Apply Lemmatization.

Adding the screenshot of preprocessedData.json:



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{"100west.txt": ["shareware", "trial", "project", "freeware", "need", "support", "continue", "west", "north", "jim", "prentice", "copyright", "jim", "prentice", "brandon", "manitoba",
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"away", "giant", "bull", "dog", "fly", "story", "record", "breaking", "trout", "walleye", "pike", "legion", "tale", "sight", "sound", "heard", "deep", "spruce", "forest", "crashing",
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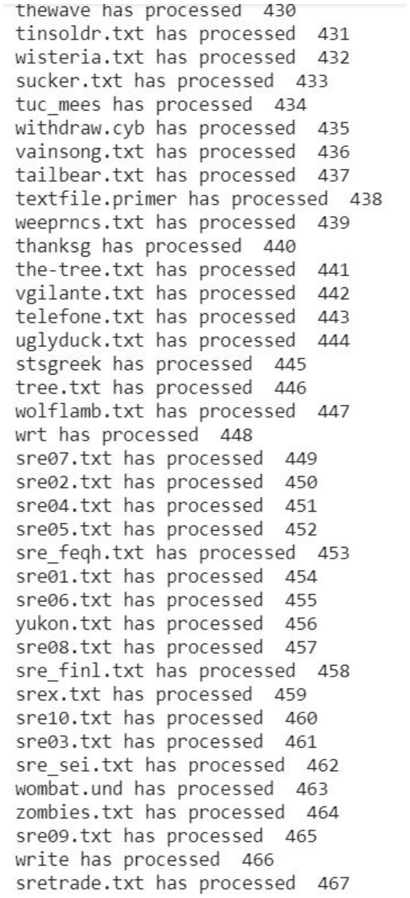
```

Here we were attaching the screenshot of 467 files that are preprocessed



```
thewave has processed  430
tinsoldr.txt has processed  431
wisteria.txt has processed  432
sucker.txt has processed  433
tuc_mees has processed  434
withdraw.cyb has processed  435
vainsong.txt has processed  436
tailbear.txt has processed  437
textfile.primer has processed  438
weeprncs.txt has processed  439
thanksg has processed  440
the-tree.txt has processed  441
vgilante.txt has processed  442
telefone.txt has processed  443
uglyduck.txt has processed  444
stsgreek has processed  445
tree.txt has processed  446
wolflamb.txt has processed  447
wrt has processed  448
sre07.txt has processed  449
sre02.txt has processed  450
sre04.txt has processed  451
sre05.txt has processed  452
sre_feqh.txt has processed  453
sre01.txt has processed  454
sre06.txt has processed  455
yukon.txt has processed  456
sre08.txt has processed  457
sre_finl.txt has processed  458
srex.txt has processed  459
sre10.txt has processed  460
sre03.txt has processed  461
sre_sei.txt has processed  462
wombat.und has processed  463
zombies.txt has processed  464
sre09.txt has processed  465
write has processed  466
sretrade.txt has processed  467
```

Indexing:

- Based on each document's word count, we will create an inverted index and posting list.
- The posting list includes the Document key, and no. of time word appears in that document.
- We have saved the indexing, inverted index, and posting it into .JSON file and pushed it to the repository.

Inverted Indexing:

- We have provided an index for each word, and we have started the index with 101 and store the inverted index into the invertedIndexing.json file.

Posting:

- In the posting, we create a dictionary, and in this dictionary, the key is the index of the word and value is a dictionary, and the key is a document, and value is how many times that word comes in that document and store this into postinglist.json file.

<u>Here we have attached the screenshot of how all JSON files look.</u>

Indexing.json:

```
{"shareware": {"100west.txt": 4, "arctic.txt": 4, "breaks1.asc": 4, "breaks3.asc": 4, "cybersla.txt": 8}, "trial": {"100west.txt": 4, "7voysinb.txt": 8, "aesop11.txt": 8, "archive": 4,
"arctic.txt": 4, "beggars.txt": 28, "blabnove.hum": 4, "blabnove.txt": 4, "blackp.txt": 8, "bookem.1": 4, "breaks2.asc": 8, "buldetal.txt": 4, "bureau.txt": 8, "burintrv.92": 4,
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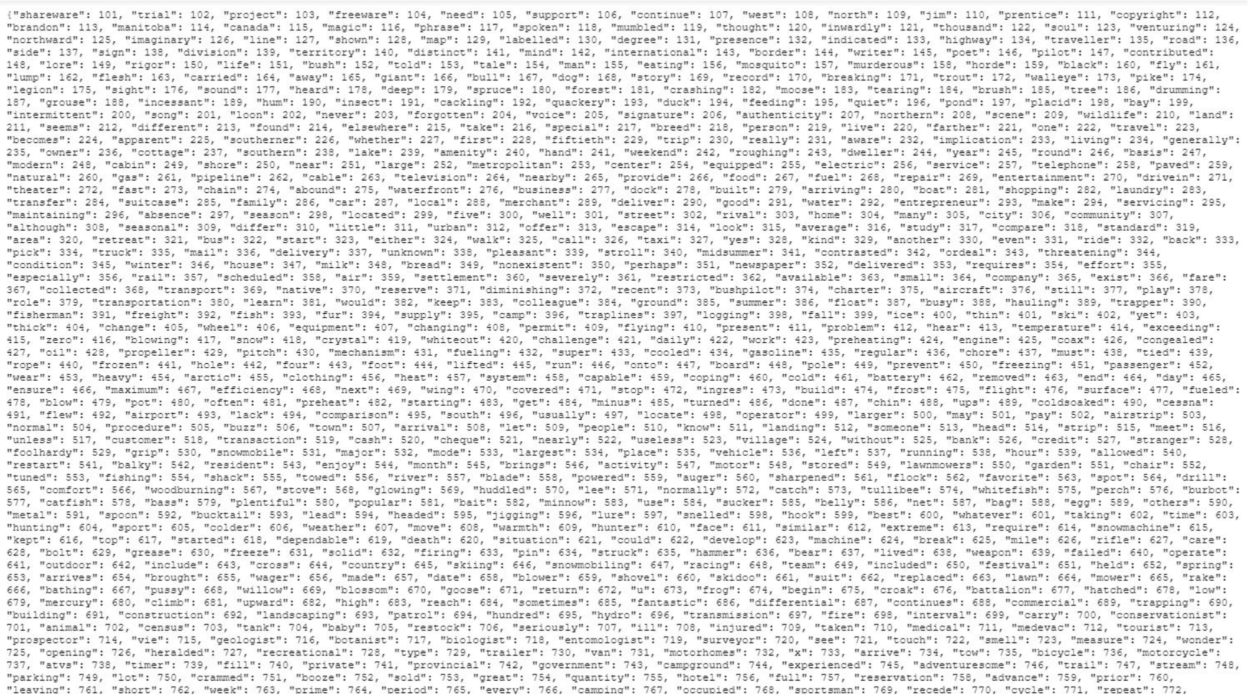

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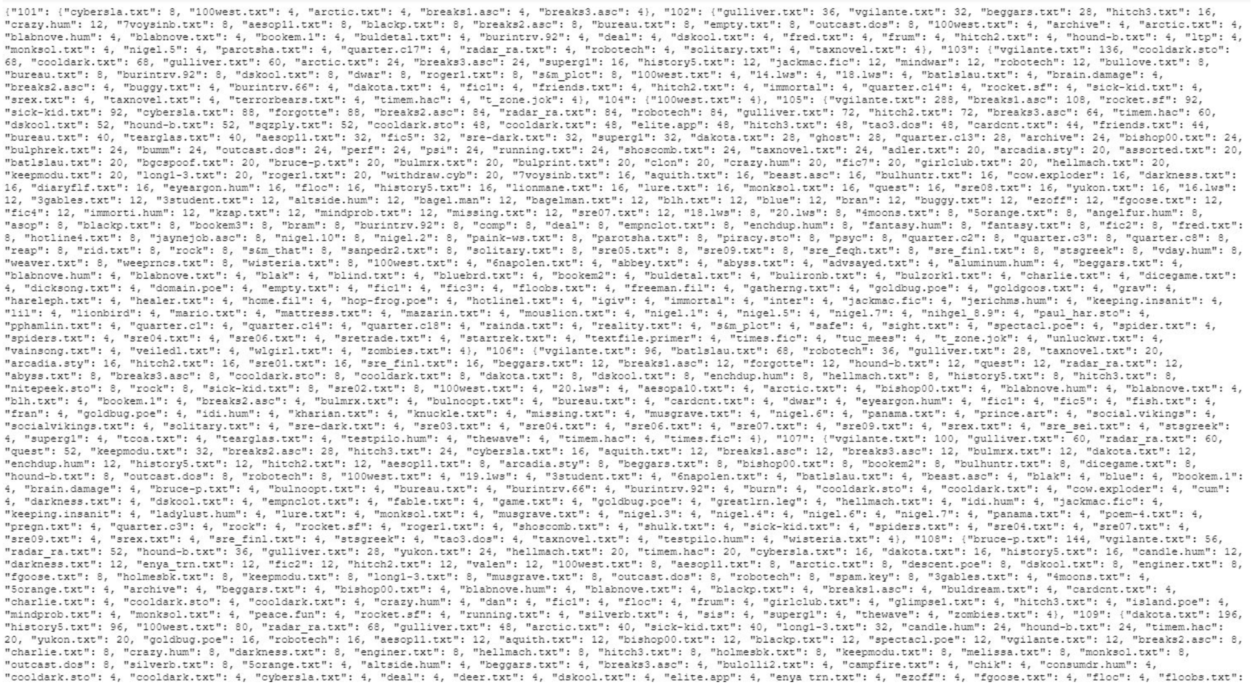

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Assumptions:

- From index.html file, taken the file name and their titles then stored in the title_stories.txt and on that title_stories.txt file remove the expelled data and store it in the same file title_stories.txt
- Attached the title_stories.txt and python file in the repository and the screen shot also.
- We have started the inverted index from 101.

title_stories,json

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Peshota (December 9, 1991)", "19.lws": "Engineering the Future of American Technology by M. Peshota (January 5, 1992)", "20.lws": "What Research and Development Was Always Meant to Be, by
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1978)", "burintrv.92": "Which is the Fly and Which is the Human? (Interview with William S. Burroughs and David Cronenberg 1992, Equire Magazine", "burltrs": "The Letters of William S.
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