# File Retrieval Engine, Application Layer

## **Performance Evaluation**

| Dataset(s) | Indexing Time   | Indexing Throughput |
|------------|-----------------|---------------------|
| Dataset1   | 22.070 seconds  | 5.80 MB/s           |
| Dataset2   | 137.314 seconds | 3.73 MB/s           |
| Dataset3   | 389.859 seconds | 5.25 MB/s           |

#### **OUTPUT:**

#### Dataset1:

Search for: Indian and mathematics. It took 0.97 seconds to search through dataset.

#### Dataset2:

Search for: Sterling. It took 88.43 seconds for searching.

```
[INFO] Scanning for projects...
[INFO] -
             ----- com.fileretrieval:FileRetrievalEngine >-----
[INFO] Building FileRetrievalEngine 1.0-SNAPSHOT
[INFO] -----[ jar ]---
[INFO]
[INFO] --- exec-maven-plugin:3.1.0:java (default-cli) @ FileRetrievalEngine ---
No text files found in the folder.
***** Choose from the below options to use the File Retrieval Engine application *****
 Option 1 : Enter Folder path for search : index <FolderPath>
 Option 2 : Enter word to search in specified file : search <word_to_search>
 Option 3 : Exit the application : quit
Enter your Option: index /mnt/shared/dataset2
Completed indexing 536991226 bytes of data with 1 worker threads
Completed indexing in 137.314 seconds
Indexing throughput: 3.73 MB/s
 Option 1 : Enter Folder path for search : index <FolderPath>
 Option 2: Enter word to search in specified file: search <word_to_search>
 Option 3 : Exit the application : quit
Enter your Option: Search Sterling
Search results (top 10 out of 171):
* /mnt/shared/dataset2/folder3/Document11259.txt:196
* /mnt/shared/dataset2/folder2/Document1085.txt:178
* /mnt/shared/dataset2/folder6/Document13583.txt:29
* /mnt/shared/dataset2/folder1/Document1025.txt:12
* /mnt/shared/dataset2/folder6/Document13660.txt:12
* /mnt/shared/dataset2/folder6/Document13559.txt:10
* /mnt/shared/dataset2/folder4/Document1224.txt:8
* /mnt/shared/dataset2/folder1/Document10386.txt:7
* /mnt/shared/dataset2/folder7/folderD/Document14831.txt:7
* /mnt/shared/dataset2/folder3/folderA/Document11504.txt:5
Search completed in 88.43 seconds
```

#### Dataset3:

### Search for: Evolution. It took 218.25 seconds for searching.