package com.twitter.search.core.earlybird.index.inverted;

import com.google.common.collect.ImmutableList;

import org.apache.lucene.util.BytesRef;

import com.twitter.search.core.earlybird.index.EarlybirdIndexSegmentAtomicReader;

/\*\*

\* A term dictionary that's backed by multiple underlying segments/indexes. For a given term, will

\* be able to return the termId for each of the underlying indexes.

\*/

public interface MultiSegmentTermDictionary {

/\*\*

\* Lookup a term in this multi segment term dictionary, and return the term ids for that term on

\* all of the managed segments.

\*

\* @return An array containing a termId for each segment that this term dictionary is backed by.

\* The order of segments will match the order returned by {@link #getSegmentIndexes()}.

\*

\* For each segment, the term id will be returned, or

\* {@link EarlybirdIndexSegmentAtomicReader#TERM\_NOT\_FOUND} if that segment does not have the

\* given term.

\*/

int[] lookupTermIds(BytesRef term);

/\*\*

\* A convenience method for checking whether a specific index/segment is backed by this term

\* dictionary. Returning true here is equivalent to returning:

\* <pre>

\* getSegmentIndexes().contains(invertedIndex);

\* </pre>

\*/

default boolean supportSegmentIndex(InvertedIndex invertedIndex) {

return getSegmentIndexes().contains(invertedIndex);

}

/\*\*

\* The list of indexes that this term dictionary is backed by. The order of indexes here will

\* be consistent with the order of termIds returned by {@link #lookupTermIds(BytesRef)}.

\*/

ImmutableList<? extends InvertedIndex> getSegmentIndexes();

/\*\*

\* Returns the number of terms in this term dictionary.

\*

\* If the term "foo" appears in segment A and in segment B, it will be counted once. To get the

\* total number of terms across all managed segments, see {@link #getNumTermEntries()}.

\*/

int getNumTerms();

/\*\*

\* Returns the total number of terms in this term dictionary across all managed segments.

\*

\* If the term "foo" appears in segment A and in segment B, it will have 2 entries in this term

\* dictionary.

\*/

int getNumTermEntries();

}