package com.twitter.search.earlybird.index;

import java.io.IOException;

import com.google.common.base.Preconditions;

import com.twitter.search.common.schema.base.EarlybirdFieldType;

import com.twitter.search.common.schema.earlybird.EarlybirdFieldConstants.EarlybirdFieldConstant;

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

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

import com.twitter.search.core.earlybird.index.column.ColumnStrideFieldIndex;

import com.twitter.search.core.earlybird.index.extensions.EarlybirdIndexExtensionsData;

public class TweetSearchLuceneIndexExtensionsData implements EarlybirdIndexExtensionsData {

@Override

public void setupExtensions(EarlybirdIndexSegmentAtomicReader atomicReader) throws IOException {

// If we use stock lucene to back the mappers and column stride fields,

// we need to initialize them

EarlybirdIndexSegmentData segmentData = atomicReader.getSegmentData();

DocValuesBasedTweetIDMapper tweetIDMapper =

(DocValuesBasedTweetIDMapper) segmentData.getDocIDToTweetIDMapper();

tweetIDMapper.initializeWithLuceneReader(

atomicReader,

getColumnStrideFieldIndex(segmentData, EarlybirdFieldConstant.ID\_CSF\_FIELD));

DocValuesBasedTimeMapper timeMapper =

(DocValuesBasedTimeMapper) segmentData.getTimeMapper();

timeMapper.initializeWithLuceneReader(

atomicReader,

getColumnStrideFieldIndex(segmentData, EarlybirdFieldConstant.CREATED\_AT\_CSF\_FIELD));

}

private ColumnStrideFieldIndex getColumnStrideFieldIndex(

EarlybirdIndexSegmentData segmentData, EarlybirdFieldConstant csfField) {

String csfFieldName = csfField.getFieldName();

EarlybirdFieldType fieldType =

segmentData.getSchema().getFieldInfo(csfFieldName).getFieldType();

Preconditions.checkState(fieldType.isCsfLoadIntoRam());

return segmentData.getDocValuesManager().addColumnStrideField(csfFieldName, fieldType);

}

}