package com.twitter.search.common.search;

import javax.annotation.Nonnull;

import com.google.common.base.Preconditions;

import com.twitter.search.common.metrics.SearchCounter;

/\*\*

\* This is not an enum to allow different clusters to define their own EarlyTerminationStates.

\*/

public final class EarlyTerminationState {

private static final String STATS\_PREFIX = "early\_termination\_";

public static final EarlyTerminationState COLLECTING =

new EarlyTerminationState("no\_early\_termination", false);

public static final EarlyTerminationState TERMINATED\_TIME\_OUT\_EXCEEDED =

new EarlyTerminationState("terminated\_timeout\_exceeded", true);

public static final EarlyTerminationState TERMINATED\_MAX\_QUERY\_COST\_EXCEEDED =

new EarlyTerminationState("terminated\_max\_query\_cost\_exceeded", true);

public static final EarlyTerminationState TERMINATED\_MAX\_HITS\_EXCEEDED =

new EarlyTerminationState("terminated\_max\_hits\_exceeded", true);

public static final EarlyTerminationState TERMINATED\_NUM\_RESULTS\_EXCEEDED =

new EarlyTerminationState("terminated\_num\_results\_exceeded", true);

// This string can be returned as a part of a search response, to tell the searcher

// why the search got early terminated.

private final String terminationReason;

private final boolean terminated;

private final SearchCounter count;

public EarlyTerminationState(@Nonnull String terminationReason, boolean terminated) {

this.terminationReason = Preconditions.checkNotNull(terminationReason);

this.terminated = terminated;

count = SearchCounter.export(STATS\_PREFIX + terminationReason + "\_count");

}

public boolean isTerminated() {

return terminated;

}

public String getTerminationReason() {

return terminationReason;

}

public void incrementCount() {

count.increment();

}

}