package com.twitter.search.earlybird\_root;

import java.util.List;

import javax.inject.Inject;

import javax.inject.Singleton;

import com.twitter.finagle.Service;

import com.twitter.finagle.mtls.authorization.server.MtlsServerSessionTrackerFilter;

import com.twitter.search.common.clientstats.FinagleClientStatsFilter;

import com.twitter.search.common.root.LoggingFilter;

import com.twitter.search.common.root.RequestValidationFilter;

import com.twitter.search.earlybird.thrift.EarlybirdRequest;

import com.twitter.search.earlybird.thrift.EarlybirdResponse;

import com.twitter.search.earlybird.thrift.EarlybirdService;

import com.twitter.search.earlybird.thrift.EarlybirdStatusResponse;

import com.twitter.search.earlybird\_root.caching.RecencyCacheFilter;

import com.twitter.search.earlybird\_root.caching.RelevanceCacheFilter;

import com.twitter.search.earlybird\_root.caching.RelevanceZeroResultsCacheFilter;

import com.twitter.search.earlybird\_root.caching.StrictRecencyCacheFilter;

import com.twitter.search.earlybird\_root.caching.TermStatsCacheFilter;

import com.twitter.search.earlybird\_root.caching.TopTweetsCacheFilter;

import com.twitter.search.earlybird\_root.common.EarlybirdRequestContext;

import com.twitter.search.earlybird\_root.filters.ClientIdQueryOperatorStatsFilter;

import com.twitter.search.earlybird\_root.filters.ClientIdQuotaFilter;

import com.twitter.search.earlybird\_root.filters.ClientIdTrackingFilter;

import com.twitter.search.earlybird\_root.filters.ClientRequestTimeFilter;

import com.twitter.search.earlybird\_root.filters.DeadlineTimeoutStatsFilter;

import com.twitter.search.earlybird\_root.filters.EarlybirdFeatureSchemaAnnotateFilter;

import com.twitter.search.earlybird\_root.filters.FullArchiveProtectedOperatorFilter;

import com.twitter.search.earlybird\_root.filters.InitializeRequestContextFilter;

import com.twitter.search.earlybird\_root.filters.IsUserProtectedMetadataTrackingFilter;

import com.twitter.search.earlybird\_root.filters.MetadataTrackingFilter;

import com.twitter.search.earlybird\_root.filters.NullcastTrackingFilter;

import com.twitter.search.earlybird\_root.filters.PostCacheRequestTypeCountFilter;

import com.twitter.search.earlybird\_root.filters.PreCacheRequestTypeCountFilter;

import com.twitter.search.earlybird\_root.filters.QueryLangStatFilter;

import com.twitter.search.earlybird\_root.filters.QueryOperatorStatFilter;

import com.twitter.search.earlybird\_root.filters.RequestResultStatsFilter;

import com.twitter.search.earlybird\_root.filters.RequestSuccessStatsFilter;

import com.twitter.search.earlybird\_root.filters.ResponseCodeStatFilter;

import com.twitter.search.earlybird\_root.filters.ResultTierCountFilter;

import com.twitter.search.earlybird\_root.filters.SearchPayloadSizeLocalContextFilter;

import com.twitter.search.earlybird\_root.filters.RejectRequestsByQuerySourceFilter;

import com.twitter.search.earlybird\_root.filters.StratoAttributionClientIdFilter;

import com.twitter.search.earlybird\_root.filters.TopLevelExceptionHandlingFilter;

import com.twitter.util.Future;

@Singleton

public class FullArchiveRootService implements EarlybirdService.ServiceIface {

private final Service<EarlybirdRequest, EarlybirdResponse> allFiltersAndService;

@Inject

public FullArchiveRootService(

TopLevelExceptionHandlingFilter topLevelExceptionHandlingFilter,

ResponseCodeStatFilter responseCodeStatFilter,

LoggingFilter<EarlybirdRequest, EarlybirdResponse> loggingFilter,

RequestValidationFilter<EarlybirdRequest, EarlybirdResponse> validationFilter,

MtlsServerSessionTrackerFilter<EarlybirdRequest, EarlybirdResponse> mtlsFilter,

FinagleClientStatsFilter<EarlybirdRequest, EarlybirdResponse> finagleStatsFilter,

InitializeFilter initializeFilter,

InitializeRequestContextFilter initializeRequestContextFilter,

QueryLangStatFilter queryLangStatFilter,

FullArchiveProtectedOperatorFilter protectedOperatorFilter,

QueryOperatorStatFilter queryOperatorStatFilter,

ClientIdQueryOperatorStatsFilter clientIdQueryOperatorStatsFilter,

IsUserProtectedMetadataTrackingFilter isUserProtectedMetadataTrackingFilter,

RequestResultStatsFilter requestResultStatsFilter,

PreCacheRequestTypeCountFilter preCacheCountFilter,

RecencyCacheFilter recencyCacheFilter,

RelevanceCacheFilter relevanceCacheFilter,

RelevanceZeroResultsCacheFilter relevanceZeroResultsCacheFilter,

StrictRecencyCacheFilter strictRecencyCacheFilter,

TermStatsCacheFilter termStatsCacheFilter,

TopTweetsCacheFilter topTweetsCacheFilter,

PostCacheRequestTypeCountFilter postCacheCountFilter,

ClientIdTrackingFilter clientIdTrackingFilter,

ClientIdQuotaFilter quotaFilter,

RejectRequestsByQuerySourceFilter rejectRequestsByQuerySourceFilter,

MetadataTrackingFilter metadataTrackingFilter,

MultiTierResultsMergeFilter multiTierResultsMergeFilter,

RequestSuccessStatsFilter requestSuccessStatsFilter,

NullcastTrackingFilter nullcastTrackingFilter,

ClientRequestTimeFilter clientRequestTimeFilter,

DeadlineTimeoutStatsFilter deadlineTimeoutStatsFilter,

EarlybirdFeatureSchemaAnnotateFilter featureSchemaAnnotateFilter,

SearchPayloadSizeLocalContextFilter searchPayloadSizeLocalContextFilter,

EarlybirdQueryRewriteFilter queryRewriteFilter,

ResultTierCountFilter resultTierCountFilter,

StratoAttributionClientIdFilter stratoAttributionClientIdFilter,

Service<EarlybirdRequestContext, List<Future<EarlybirdResponse>>> chainedScatterGatherService

) {

this.allFiltersAndService =

loggingFilter

.andThen(topLevelExceptionHandlingFilter)

.andThen(stratoAttributionClientIdFilter)

.andThen(clientRequestTimeFilter)

.andThen(searchPayloadSizeLocalContextFilter)

.andThen(requestSuccessStatsFilter)

.andThen(requestResultStatsFilter)

.andThen(responseCodeStatFilter)

.andThen(validationFilter)

.andThen(mtlsFilter)

.andThen(finagleStatsFilter)

.andThen(clientIdTrackingFilter)

.andThen(quotaFilter)

.andThen(rejectRequestsByQuerySourceFilter)

.andThen(metadataTrackingFilter)

.andThen(initializeFilter)

.andThen(initializeRequestContextFilter)

.andThen(deadlineTimeoutStatsFilter)

.andThen(queryLangStatFilter)

.andThen(protectedOperatorFilter)

.andThen(queryOperatorStatFilter)

.andThen(clientIdQueryOperatorStatsFilter)

.andThen(isUserProtectedMetadataTrackingFilter)

.andThen(preCacheCountFilter)

.andThen(nullcastTrackingFilter)

.andThen(recencyCacheFilter)

.andThen(relevanceCacheFilter)

.andThen(relevanceZeroResultsCacheFilter)

.andThen(strictRecencyCacheFilter)

.andThen(termStatsCacheFilter)

.andThen(topTweetsCacheFilter)

.andThen(postCacheCountFilter)

.andThen(queryRewriteFilter)

.andThen(featureSchemaAnnotateFilter)

.andThen(resultTierCountFilter)

.andThen(multiTierResultsMergeFilter)

.andThen(chainedScatterGatherService);

}

@Override

public Future<String> getName() {

return Future.value("fullarchive");

}

@Override

public Future<EarlybirdStatusResponse> getStatus() {

throw new UnsupportedOperationException("not supported");

}

@Override

public Future<EarlybirdResponse> search(EarlybirdRequest request) {

return allFiltersAndService.apply(request);

}

}