package com.twitter.product\_mixer.core.functional\_component.transformer

import com.twitter.product\_mixer.core.model.common.UniversalNoun

import com.twitter.product\_mixer.core.model.common.identifier.ComponentIdentifier

import com.twitter.product\_mixer.core.model.common.identifier.TransformerIdentifier

/\*\*

\* A transformer for transforming a candidate pipeline's source result type into the parent's

\* mixer ore recommendation pipeline's type.

\* @tparam SourceResult The type of the result of the candidate source being used.

\* @tparam PipelineResult The type of the parent pipeline's expected

\*/

trait CandidatePipelineResultsTransformer[SourceResult, PipelineResult <: UniversalNoun[Any]]

extends Transformer[SourceResult, PipelineResult] {

override val identifier: TransformerIdentifier =

CandidatePipelineResultsTransformer.DefaultTransformerId

}

object CandidatePipelineResultsTransformer {

private[core] val DefaultTransformerId: TransformerIdentifier =

TransformerIdentifier(ComponentIdentifier.BasedOnParentComponent)

private[core] val TransformerIdSuffix = "Results"

/\*\*

\* For use when building a [[CandidatePipelineResultsTransformer]] in a [[com.twitter.product\_mixer.core.pipeline.PipelineBuilder]]

\* to ensure that the identifier is updated with the parent [[com.twitter.product\_mixer.core.pipeline.Pipeline.identifier]]

\*/

private[core] def copyWithUpdatedIdentifier[SourceResult, PipelineResult <: UniversalNoun[Any]](

resultTransformer: CandidatePipelineResultsTransformer[SourceResult, PipelineResult],

parentIdentifier: ComponentIdentifier

): CandidatePipelineResultsTransformer[SourceResult, PipelineResult] = {

if (resultTransformer.identifier == DefaultTransformerId) {

new CandidatePipelineResultsTransformer[SourceResult, PipelineResult] {

override val identifier: TransformerIdentifier = TransformerIdentifier(

s"${parentIdentifier.name}$TransformerIdSuffix")

override def transform(input: SourceResult): PipelineResult =

resultTransformer.transform(input)

}

} else {

resultTransformer

}

}

}