# HP Data Quality ETL App Controllers and Services Backend Assembly Specification

# Project Overview

## System Description

Client wants to build an Extract Transform and Load (ETL) application that will allow user to move data between a source file or database and a destination directory or database. The goal of this challenge is to create the underlying architecture for this Data Quality app. The tool will allow moving file and relational data on a regular basis and will display the status of the currently scheduled and recently completed jobs.

This assembly is responsible for all classes and interfaces excluding com.hp.etl.services.recorddao, com.hp.etl.services.recorddao.impl packages as shown in TCUML.

## Competition Task Overview

A complete list of deliverables can be found in the TopCoder Assembly competition Tutorial at:

<http://apps.topcoder.com/wiki/display/tc/Assembly+Competition+Tutorials>

*Note: Extensive implementation notes are provided at method documentation on UML Class Diagrams. Please follow them for implementation.*

*Note: Please read the whole Application Design Specification first. All the details not mentioned in this specification are provided in that document.*

## Technology overview

## Java 8

## REST API

## JSON

## Spring Framework 4.x <http://projects.spring.io/spring-framework/>

## Spring Boot 1.3.x <http://projects.spring.io/spring-boot/>

## Log4j 1.2 <http://logging.apache.org/log4j/1.2/>

* Apache POI 3.15 <https://poi.apache.org/download.html>

## Existing Documents

* Class Diagrams
* Sequence Diagrams
* Application Design Specification
* Assembly Specifications
* ERD
* Swagger API definition