Student Data Import

# Design

The system design is reflective of the following goals:

* Scalability – The system must be able to load data fast and in parallel since this is the first stage of on-boarding a client (school district)
* Maintainability – As the requirements evolve the system will need to adapt and therefore must be adaptable to change
* Extension via Configuration- The variability of client requirements will need to be addressed via configuration, therefore the system should have configuration as an extensibility strategy

# Extensibility

Extensibility of this system is the ability to adapt to different client requirements encoded in the same system. The following are assumed points of extensibility:

* The shape of the imported data – It very possible that clients will have different fields and taxonomies for schools and districts. Additionally, length and quantity of names, gender identifies, number of grades will vary
* Merge rules with Student data – The enrichment and migration of Student data from imported data will vary.
* Type of students – The idea of student may evolve to include university students, non-traditional students, online students, etc.