PharmCAS ETL application processing.

**Technologies Used:**

* SQL Server database, located in the PharmCAS database on the Azure-SQL server.
* Visual Studio C# ASP.NET with AjaxControlToolKit, located under C:\Sourcefiles on the CHSU-WEB server.
* Microsoft Internet Information Services on the CHSU-WEB server

**Github Location**

https://github.com/California-Health-Sciences-University/PharmCASETL/

**Requirements:**

In order to run, this application needs the following:

1. A data file of the current list of students, downloaded from SONIS. The file specification is included below in the table SONISStudentProfileLoad. If the list of SONIS students currently in the ETL database is current, this item may be skipped. The required structure for this file must match the SONISStudentProfileLoad table, described below.
2. The list of currently selected PharmCAS Applicants downloaded from the PharmCAS site, defined in the PharmCAS Applicantextended named download. If the scripted download is not found on the PharmCAS site for any reason, it may be recreated by simply selecting all of the fields shown in the ApplicantExtendedLoad table below, selected in that order.
3. The PharmCAS CollegesAttended download file, containing the PharmCAS ID for the selected applicants. The required fields and their order are shown in the CollegesAttended table, below.

**Processing Steps:**

**Load the current list of students from SONIS.**

This step may be skipped if the list of students in the ETL database is current.

* Click Browse to find the file,
* Click Upload to upload the file to the server.
* Click Load SONIS File to process the data into the database.

**Load the PharmCAS Applicants**

* Click Browse to find the file,
* Click Upload to upload the file to the server.
* Click Load PharmCAS Applicants to process the data into the database.

**Load the PharmCAS CollegesAttended**

* Click Browse to find the file,
* Click Upload to upload the file to the server.
* Click Load PharmCAS Colleges Attended to process the data into the database.

**Click the CreateOutput Files button**

This processes the data into the output tables. Do not do this until the previous steps have been completed. This step creates the records that will be output to SONIS.

**Retrieve the files**

* Click Download SONIS Student File to download 4students.csv
* Click Download SONIS Local Address File to download 5AddressesLocal.csv
* Click Download SONIS Mailing Address File to download 5AddressesMailing.csv
* Click Download SONIS Permanent Address File to download 5AddressesPermanent.csv
* Click Download SONIS Education File to download 7Education.csv

The primary processing work is done by the CreateOutputData stored procedure. It contains the following steps:

|  |  |
| --- | --- |
| **Step** | **Description** |
| TruncateSONISTables | Clears the SONIS output tables to accept a new set of data. |
| MoveSONIStudentProfileLoadToWorkingFiles | Moves the students loaded from SONIS from the SONISStudentProfileLoad table to the SONISStudentProfile table. |
| MovePharmCASLoadToWorkingFiles | Moves the Applicant information from the ApplicantExtendedLoad table to the ApplicantExtended table.  Moves the CollegesAttended data from the CollegesAttendedETLLoad table to the CollegesAttendedETL table.  This procedure makes various data translations in the process. |
| ApplicantExtendedEthnicity\_Update | Translates the ethnicity values found in the PharmCAS file so they can be used in this process. Matches the values against the values found in the EthnicityTranslation table and updates the ApplicantExtended.SONISEthnicityCode |
| MatchExistingSONISStudentsToPharmCASApplicants | Matches SONIS students in the SONISStudentProfile table against entries found in the ApplicantExtended table. If a SONIS student is referenced in the ApplicantExtended table, the ApplicantExtended.JenzabarID field will be updated with the value in the SONISStudentProfile.JenzabarID field. |
| GPAsBySchoolETL\_insert | Translates School GPA information from the ApplicantExtended format to the more normalized format of the GPAsBySchoolETL table, so they can be more easily used in the SONISEducation\_Insert procedure. |
| SONISMailingAddress\_insert | Inserts records into the SONIS Mailing Address output table. |
| SONISPermanentAddress\_insert | Inserts records into the SONIS Permanent Address output table. |
| SONISLocalAddress\_insert | Inserts records into the SONIS Local Address output table. |
| SONISNames\_insert | Inserts records into the SONIS Names output table. |
| SONISEducation\_insert | Inserts records into the SONIS Education output table. |



