ETL - Support

Iteration Plan

ETL Support 2019 - Group 2

Team Members

- Elia Vicentini (Scrum Master)
- Simone Gandini
- Luca Landolfo
- Enrico Marocchio
- Adrian Munteanu

Document Owner

Luca Landolfo is responsible for the development and maintenance of this document.

Iteration #1

29/03/19 - 04/04/19

Revision History

Author	Date	Description
Elia Vicentini	29/03/19	Initial release.
Luca Landolfo	29/03/19	Added JSON connection file.
Luca Landolfo	29/03/19	Connect to the server via JSON's data.
Elia Vicentini	30/03/19	Added 'PyMySQL' library.
Luca Landolfo	30/03/19	Implemented boold.
Elia Vicentini & Adrian Munteanu	30/03/19	Created setup.py
Enrico Marocchio	30/03/19	Created logcreator.py
Whole Tean	31/03/19	Various updates to work with a test server.
Adrian Munteanu & Simone Gandini	01/04/19	Improved different functions.
Luca Landolfo & Elia	01/04/19	Connection to edu-x04 and 1° query

Vicentini		execution.
Whole Tean	02/04/19	Updates on the logging and errors exception functionalities.
Elia Vicentini & Luca Landolfo	03/04/19	Added functionality to insert data into the database.
Luca Landolfo, Adrian Muntanu & Simone Gandini	03/04/19	Added sys-argv and improved several minor errors.
Enrico Marocchio	03/04/19	Updated and added more functionalities for the logging system.
Enrico Marocchio	04/04/19	Completed logcreator.py.

Objectives

The main purpose of this initial iteration is to plan and create a first working prototype of the python script. It must be able to connect and perform the first simple operations on the databases, efficiency it's not required. It was also requested to implement a logging system, in order to make the whole process more understandable, especially in case of mistakes. At the end of this first iteration the system should be able to:

- Connect to the server through data provided by a json file.
- Taking, processing and returning data from a database to a newer one.
- Have a simple and user-friendly GUI (even if from CLI).
- Save every process executed by the program on a .log file.

Iteration #2

20/09/19 - 16/12/19

Revision History

Author	Date	Description
Elia Vicentini	20/09/19	Added 'requests' library.
Enrico Marocchio	20/09/19	Updated .log file visuals.
Whole Team	21/09/19	Save API data on a .csv file and process it.
Luca Landolfo & Elia Vicentini	23/09/19	Improved queries performance and simplified the query process.
Elia Vicentini	27/09/19	Other queries improvements and added

		boolsql.
Whole Team	28/09/19	Various updates and fixes to work with the DB.
Elia Vicentini	07/10/19	Updated print and config messages.
Enrico Marocchio & Elia Vicentini	21/10/19	Updated logcreator to work with both API and Direct modes.
Whole Team	16/12/19	Fixed and improved some parameters for MySQL and SQL server.
Whole Team	16/12/19	Script fully completed and working.

Objectives

This version of code will first have to work with MarconiTT's API to connect to the server and the databases. Obviously the connection method of the last iteration will have to work without problems anyway. The program will also need to be much more efficient and for this reason it will mainly be necessary to change the queries that are executed on the database. At the end of this iteration the system should be able to:

- Rework the whole app to work with the API.
- Connect to the API and grab the data needed provided by the API.
- Save, process and enter data into the target database.
- Greatly improve the processing and uploading of data from .csv files to the SQL server via queries.
- Recognize and fix all the faults in the code.