Desktop Application for Exporting an Educational Data Benchmark from raw data obtained from Online E-Learning Platform Tesys

STUDENT: Vladu Octavian-Mihai (vladuomihai@gmail.com)
COORDINATOR: Mihăescu Cristian, PhD., (mihaescu@software.ucv.ro)
PRESENTATION DATE: July, 2015

Project Goal

The application has the goal to obtain an Educational Data Benchmark from raw data from online e-learning platform Tesys. The application is a desktop application developed in Java language programming and represents a plug-in for a bigger application called TDM (Tesys Data Manager) which's role is to manage the data of Tesys.

For develop an Educational Data Benchmark was needed a list of features which's values are computed from gained raw data. In the end of the project this list was composed from a total number of 27 features of which 17 are computable with the logic of Tesys for gathering data.

The list of features was created based on existing scientific papers and the needs of online platform Tesys. It have been wrapped in 4 categories: **Session**, **Message Activity**, **Demographic** and **Educational Activity**.

Involved Tools and Technologies

Reflection API	Get the value of a feature from a list of desired features through Reflection API saved time for writing code to call every method **'get'** of a class which represents an feature.
XAMPP	Generate a MySQL server and a user-friendly interface for accessing Tesys' database.
MySQL	Getting raw data from Tesys' database.
Eclipse IDE	IDE for developing an application based on Java language programming.
Java	Programming language used for developing the plug-in for TDM.

Project Output

File Type	Reason for choosing this
.csv	Storing obtained features values for donate them to UCI Machine Learning Repository and performing different statistics in future.
.xml	
.arff	