

Database Model for Fish Collection

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Biological data collection is an important activity used by Botany, Ecology and Geographical Analysis research fields. Biological data acquired in a field collection trip at some site can provide much significant information in a scientific project and the data availability is important to the collectors as well as to the research community. So it is a great benefit to them if these data can be accessible by a web database that is modeled to fit the required acquisition process used by researchers. Besides the data input process it is also important to have a good query system and to allow the addition of analysis plugins. This work in progress project aims to devise a complete website for the Fish Collection of UNILA, also integrating a Botany database and a Geographic Information System. At this point of the project we have made the database modeling and a prototype of the data input web interface. These activities were made by a multidisciplinary group of mathematicians, biologists and computer scientists. An expert researcher from Ichthyology was interviewed and provided the required information to the database system as well as the web interface for fish batches and tissues collections. Besides that, some batches and tissues loan system was sketched to allow a borrowing log of biological material. So far we have used HTML5, CSS and JavaScript languages for the web client side of our Fish Collection and the KORA framework to a fast implementation of the database system. Temporarily we are hosting the Fish Collection at <http://54.227.226.95/kora-2.6.6.1/> (login required). This project is registered as PID202-2015, PID495-2016 and PID575-2016 and is partially funded by PIBIC-UNILA and PIBITI-UNILA.