

Project proposal 2006-16-2

Contents

- [1 Project Leader](#)
- [2 Collaborator\(s\)](#)
- [3 Project Title](#)
- [4 Rationale](#)
- [5 Project Category](#)
- [6 Deliverable Product\(s\)](#)
- [7 Proposed implementation strategy & technology](#)
- [8 Existing Prototype\(s\)](#)
- [9 Mode of Product Delivery](#)
- [10 Product Availability](#)
- [11 Project Milestones/Timeline](#)
- [12 Product Testers/Users](#)
- [13 GCP budget requested \(US\\$\)](#)
- [14 In-Kind Contribution](#)

Project Leader

Richard Bruskiwich

Collaborator(s)

Martin Senger

Project Title

Task 16.2 Generalized query engine and result integrator

Rationale

A generalized query engine and user interface (based on Eclipse RCP and code named □Pantheon□) was conceptualized in 2005. The functionality of this tool will be mildly reminiscent of ACEDB (<http://www.acedb.org>).

This tool will:

- allow (simple) text query of GCP data source managed data entities from GCP compliant data sources
- allow (advanced) feature-driven queries on said entities
- the results of a query are a set of identifiers for those entities. Both a summary ("synopsis") and list of identifiers will be presented to the user
- the user may retrieve entity details or launch a search for related data (using the current "hit" list as input data
- entity details can be presented as simple text or displayed in a specialist GCP [DataConsumer](#) compliant viewer, as applicable (e.g. CMTV for map data, Apollo for sequence data, DIVA for location data, etc.)
- The tool will also be connected to ICIS, Chado, ICRIS (ICRISAT), BioMOBY and other GCP [DataSource](#) interface compliant data sources.

Project Category

Search engine and graphical user interface.

Deliverable Product(s)

On-line tool at a public Generation CP web site URL.

Proposed implementation strategy & technology

- tool being developed by a team of IRRI national staff and University of the Philippines students, in collaboration with pertinent external partners (e.g. Martin Senger).

- Earlier querybuilder concepts mapped onto Java Servlet/AJAX technology (via storyboarded design) and latest core GCP domain model implementation (including DataSource wrapping for selected target data sources like ICIS, Chado and MAXD)
- Web server set up (June 2006) to host the tool, which will be updated frequently from CropForge source code
- Feedback from selected IRRI GCP scientists will drive evolution of the tool

Existing Prototype(s)

The concept of the software was prototyped a bit in Eclipse RCP in 2005, but as of April 2006, the tool was re-specified to be web based Java/AJAX software system, which alongside re-specification of the core GCP domain model (including "DataSource" and "DataConsumer" interfaces) is requiring major revision (underway).

An official GCP web site for the online software is being set up as of this time (June 2006) and will hopefully go online shortly.

Mode of Product Delivery

Online delivery, with a combination of web downloadable AJAX client (to web browser) and Java Webstart for heavier Java component viewers.

Product Availability

The project will be Java and AJAX open source code hosted under Pantheon/Belenus/web/org.generationcp.querybuilder in CropForge.

Project Milestones/Timeline

- Early design and prototype - April - June, 2006
- First *alpha* web site deployed - end of June, 2006
- Rapid iterations toward basic model-drive searches for data using available local (ICIS, Chado - Genomic, MAXD) and remote (BioMOBY) data sources.
- Brazil-ready beta release by August 31st, 2006
- Completion of first production release of tool by December 31, 2006

Product Testers/Users

IRRI GCP scientists: Ken McNally, Ramil Mauleon, Hei Leung, Nollie Vera Cruz, John Bennett, Ruairaidh Sackville Hamilton, Abdel Ismail and others

GCP budget requested (US\$)

\$21,000

In-Kind Contribution

- IRRI CRIL team member (salaries)