The Virtual Leaf

Friday 11 June 2010

Issues:

- Every class that has an association or composition eventually will need its own custom view page template, e.g. sed_view. For the moment I have set the default view for these classes to dev_view (a copy of base_view).
- 2. An association in UML is cast as a ReferenceField in the resulting class schema. Open the association and add the widget:label tag to the class that is being associated.
- 3. The default description text for a class should be a informative description of the class, not the instance, derived from the SED-ML manual.
- 4. Apply 'searchable' tags to the appropriate class attributes.
- 5. I choose 'isTidyHtmlWithCleanup' as the MathML validator. Will this work?
- 6. What should be added to our implementation of SED-ML to make it more than merely a mirror image of the SED-ML XML format?
 - a. The ability to attach files at various points, e.g. parameter files.
 - b. Additional output types, e.g. animations.
 - c. Custom page templates
 - d. Custom search form
 - e. Custom catalog indexes
 - f. Custom portlet(s)
 - g. Custom viewlet(s)

Friday 24 September 2010

To Do:

- 1. Publish our mercurial repositories (Chris/Martin). This may mesh with deploying Plone.
- 2. Create a vleaf mailing list (Henk).

Found an article on SBRML - a markup language for associating systems biology data with models. At a glance the schema seems bigger than SED-ML's, but SBRML appears to be SBML specific.

Monday 27 September 2010

Spoke with Chris about publishing the Mercurial repositories and deploying Plone. Both can be accomplished in their own project space on a server in the DMZ. Chris said he would supply me with login credentials for both accounts. I will install Plone and Chris (or Maarten) will help me configure Apache/nginx and Varnish. Chris will install the required Mercurial packages; after which I can clone the repositories to their new home.

Tuesday 5 October 20010

tutorial0.pro

Added simplugin.h to list of header files. NB: this is the only tutorial in which simplugin.h appears.

auxingrowthplugin.h

Declared, and defined, a virtual function named <code>DefaultLeafML()</code> which merely returns a QString naming a LeafML filename sans path.

VirtualLeaf.cpp

```
Moved Cell::SetMagnification() and Cell::SetOffset() from main() to
MainBase::Init().
```

canvas.h

Declare exportCellData().

canvas.cpp

Add an 'Export cell areas' to the file dropdown menu which invokes - surprise - Main::exportCellData():

```
void Main::exportCellData(void) {
   QFile file("areas.csv");
   if ( file.open( IO_WriteOnly ) ) {
      QTextStream stream( &file );
      mesh.CSVExportCellData(stream);
      mesh.CSVExportMeshData(stream);
      file.close();
   }
}
```

mesh.h

Include <QTextStream>

Set the boundary_poloygon pointer to zero in the class constructor, and delete it, if it exists, in the class destructor.

Declare Compactness(), CSVExportCellData() and CSVExportMeshData():

```
double Compactness(double *res_compactness=0, double *res_area=0, double *res_cell_area=0);
void CSVExportCellData(QTextStream &csv_stream) const;
void CSVExportMeshData(QTextStream &csv_stream);
```

mesh.cpp

In mesh::clear(), delete the boundary_polygon only if the pointer hasn't been assigned:

```
if (boundary_polygon) {
   delete boundary_polygon;
   boundary_polygon=0;
}
```

Ditto for mesh::clean().

Define the code for Compactness(), CSVExportCellData() and CSVExportMeshData().

modelcatalogue.cpp

In InstallModel(), find and load the default LeafML file.

simplugin.h

Declare DefaultLeafML():

```
// Default LeafML-file to be read after model startup
virtual QString DefaultLeafML(void);
```

simplugin.cpp

Define DefaultLeafML(). Returns an empty QString:

```
QString SimPluginInterface::DefaultLeafML(void) { return QString(); }
```

xmlwrite.cpp

In Mesh::XMLReadCells() - Delete the boundary_ploygon only if its pointer has been assigned.

Wednesday 6 October 2010

Wrote Simon van Mourik about his missing libiconv-2.dll.

Thursday 7 October 2010

Added a Q3FileDialog in canvas.cpp:Main::exportCellData(void) to choose where to write the exported cell data.

Friday 8 October 2010

Added new parameters to control perodic cell exprt data.

Added code to relize perodic cell export.

Monday 11 October 2010

Mercurial hooks

Tried several alternatives for Mercurial's pretxnchangegroup.forbid_2heads hook.

- 1. http://bitbucket.org/dgc/headcount: Headcount ui complains of a missing data member
- 2. http://stackoverflow.com/questions/1705921/useful-mercurial-hooks: forbid2_heads.py doesn't load
- 3. http://davidherron.com/node/961: forbid2_heads.sh works as advertised

Mercurial Repositories

Tried to install Rhode Code from: http://packages.python.org/RhodeCode.

- 1. http://bitbucket.org/marcinkuzminski/rhodecode
- 2. http://packages.python.org/RhodeCode, http://pypi.python.org/pypi/RhodeCode/1.0.0rc3

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- 3. http://hg.python-works.com (demo,demo)
- 4. http://bitbucket.org/bfrog/cutehg
- 5. http://pypi.python.org/pypi/SIP, http://www.riverbankcomputing.com/hg/sip
- 6. http://pypi.python.org/pypi/PyQt
- 7. http://ask.github.com/celery

All goes tolerably until you tick in the url; at which point RhodeCode complains that:

```
Exception happened during processing of request from ('127.0.0.1', 35803)
Traceback (mest recent call last):
File 'vife'gurvayed, archive/mas/mr/thodecode/lib/python2.6/site-packages/Paste-1.7.5.1-py2.6.egg/paste/httpserver.py*, line 1068, in process_request_in_thread self.finish_request (request, client_address)
File 'vife'gurvayed_revive(*puthon-2.6.2/lib/python2.6/siceteServer.py*, line 320, in finish_request
self.RequestHandlerClass(request, client_address, self)
File 'vife'gurvayed_revive(*puthon-2.6.2/lib/python2.6/siceteServer.py*, line 615, in __init__
File 'vife'gurvayed_revive(*puthon-2.6.2/lib/python2.6/site-packages/Paste-1.7.5.1-py2.6.egg/paste/httpserver.py*, line 442, in handle
RaseHTTFRequestHandler.handle(self)
File 'vife/gurvayed_revive(*puthon-2.6.2/lib/python2.6/site-packages/Paste-1.7.5.1-py2.6.egg/paste/httpserver.py*, line 237, in handle
self.handle_one_request
File 'vife/gurvayed_varchive/mas/mr/rhodecode/lib/python2.6/site-packages/Faste-1.7.5.1-py2.6.egg/paste/httpserver.py*, line 237, in wagi_execute
self.vife/gurvayed_varchive/mas/mr/rhodecode/lib/python2.6/site-packages/Faste-1.7.5.1-py2.6.egg/paste/httpserver.py*, line 237, in wagi_execute
self.wgi_start_response)
File 'vife/gurvayed_varchive/mas/mr/rhodecode/lib/python2.6/site-packages/Faste-1.7.5.1-py2.6.egg/paste/cascade.py*, line 130, in __call__
return self.application(eviron, start_response)
File 'vife/gurvayed_varchive/mas/mr/rhodecode/lib/python2.6/site-packages/Faste-1.7.5.1-py2.6.egg/patte/cascade.py*, line 139, in __call__
self.application(environ, start_response)
File 'vife/gurvayed_varchive/mas/mr/rhodecode/lib/python2.6/site-packages/Faste-1.7.5.1-py2.6.egg/pylons/mr/rhodecode/lib/python2.6/site-packages/Faste-1.7.5.1-py2.6.egg/pylons/mr/rhodecode/lib/python2.6/site-packages/Faste-1.7.5.1-py2.6.egg/pylons/mr/rhodecode/lib/python2.6/site-packages/Faste-1.7.5.1-py2.6.egg/pylons/mr/rhodecode/lib/python2.6/site-packages/Faste-1.7.5.1-py2.6.egg/pylons/mr/rhodecode/lib/python2.6/site-packages/Faste-1.7.5.1-py2.6.egg/pylons/
```

RE-INSTALL

- 1. easy_install mercurial
- 2. mkdir src
- 3. cd src
- 4. hg clone http://www.riverbankcomputing.com/hg/sip
- 5. cd sip
- 6. python build.py prepare
- 7. python configure.py
- 8. make
- 9. make install
- 10. cd ..
- 11. wget http://www.riverbankcomputing.com/static/Downloads/PyQt4/PyQt-x11-gpl-4.7.7.tar.gz
- 12. tar xzf PyQt-x11-gpl-4.7.7
- 13. cd PyQt-x11-gpl-4.7.7
- 14. python configure.py
- 15. make
- 16. make install
- 17. cd ..
- 18. hg clone https://litsol@bitbucket.org/bfrog/cutehg
- 19. cd cutehg

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- 20. python setup.py build
- 21. python setup.py install
- 22. cd ..
- 23. easy_install rhodecode, http://pypi.python.org/pypi/RhodeCode/1.0.0rc2

This procedure fails as before.

However, upon inspection I saw that the i18n directory was missing from my build but present in the rhodecode clone from bitbucket. While I think that the <code>easy_install rhodecode</code> invocation is necessary to install the various subsidiary packages, moving the cloned rhodecode into the site-packages directory seems to have made most functionality work. e.g. graphical logs and diff highlighting.

Tuesday 12 October 2010

RhodeCode

I think that if Chris can install RhodeCode, I can serve individual instance from my home directory.

SED-ML L1V1RC1

Walking through the new SED-ML schema I see that they've dropped the generic simulation class and added AddXML and RemoveXML model change classes. Adding several more SED-ML examples for the symposium might still be justified - though they become obsolete the moment I introduce the new schema changes.