

The reward for work well done is the opportunity to do more.
— Jonas Salk



CSC491: Computer Science Capstone

Final Presentations

Wednesday, December 3, 2008

1:00-3:00 pm

Room 5256

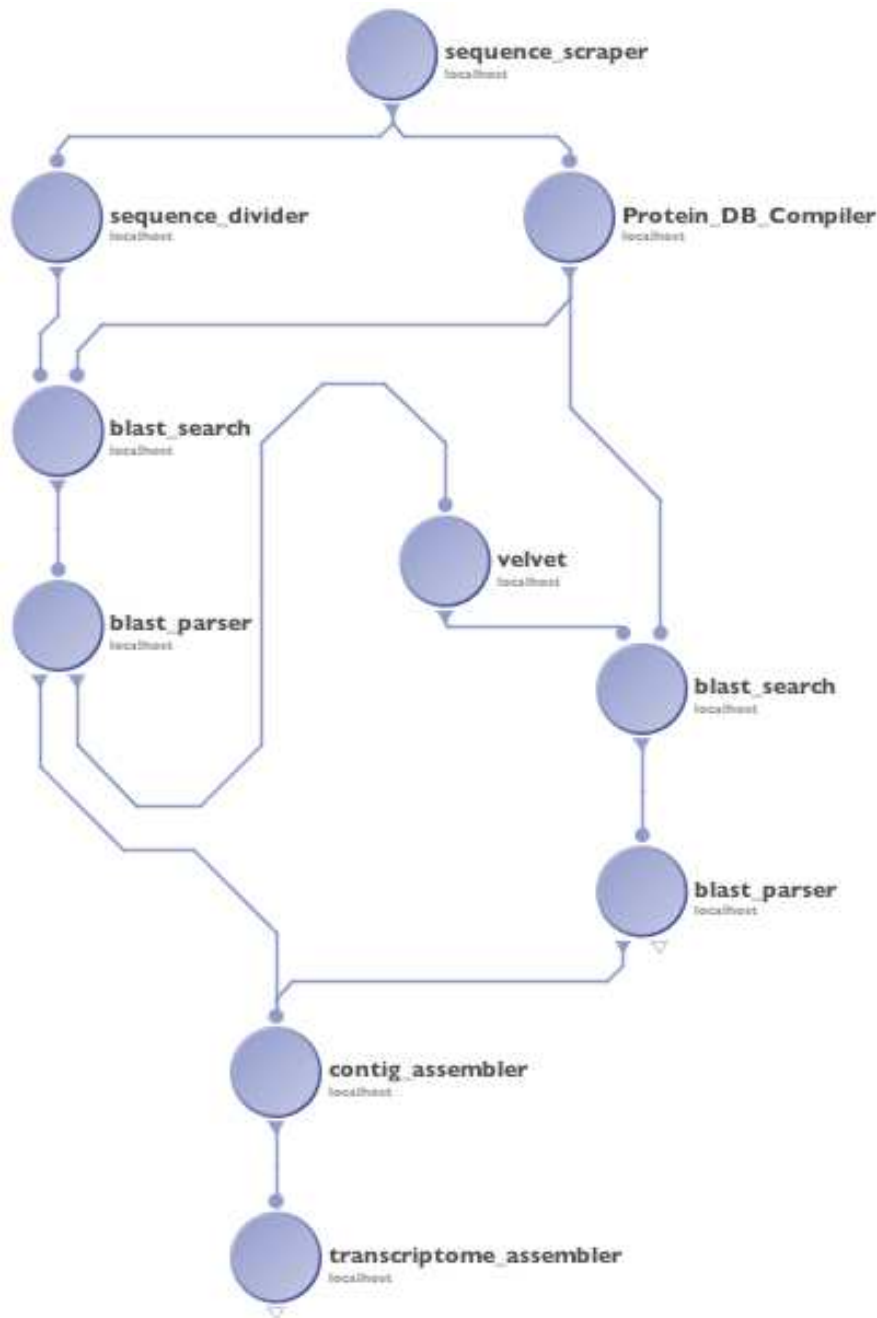
Bahen Centre for Information Technology

40 St. George Street

Toronto, Ontario

A lot of my stories aren't true, but this is a true story.
— Greg Wilson

Fan Dong: Workflow



A scientific workflow is an executable service pipeline that contains a set of modules and relations. It benefits scientists in a number of ways such as experiments invocation, data or computing resources integration, or sharing. This project is aimed to help scientists, especially Bioinformaticians, to choose the most appropriate workflow system for certain applications. Our main approach is to test three popular workflow system in two representative experiments, from where their performance are evaluated against a set of criteria including usability, extendibility, integrality, ease of sharing, and user community and support.

Mike Conley and Geoffrey Flores: OLM on Rails

The screenshot shows a web browser window with the URL `http://localhost:3000/checkmark/rubrics/index/2`. The browser has two tabs: "CheckMark - index" and "phpPgAdmin". The page is titled "Logged in as admin | Log out" and "CSCxxx Summer 2008: Course Title Here". Below the navigation bar, there are two buttons: "Manually Edit Rubric" and "Upload Rubric File". The main content area is titled "Rubric Management: A2" and includes a link "< Back to Manage Assignments".

The "Rubric Criteria" section on the left contains a table with the following data:

Rubric Criteria		+ Add Criterion
Clarity Delete		
-	1.0	+
This is a description for clarity criterion		
Some Criterion A	1.0	
Some Criterion B	1.0	
Some Criterion C	1.0	
Some Criterion D	1.0	

The "Rubric Levels: Clarity" section on the right shows three levels:

- Level 0 Horrible**: This criterion was not satisfied whatsoever
- Level 1 Satisfactory**: This criterion was satisfied
- Level 2 Good**: This criterion was satisfied well

The bottom of the page shows a "Done" status bar.

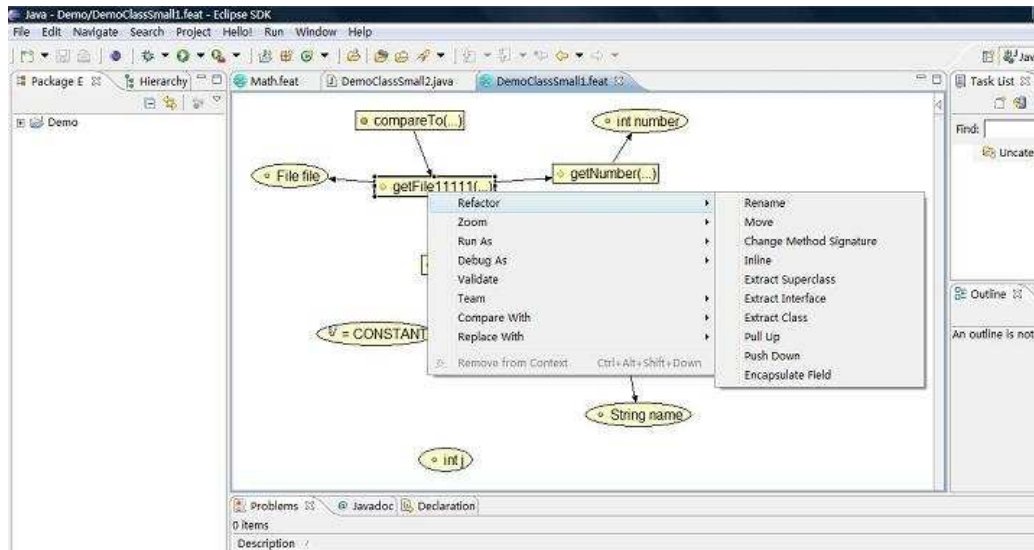
OLM on Rails is a project that reimplements current capabilities of Online Marking Tool in the Ruby on Rails web application framework. OLM on Rails is a web application that acts as a code review tool for TAs and instructors when marking CS student's code and handles group management and student submissions.

AJ Guillon: GPUs for Geologists



Graphic Processing Units (GPUs) are co-processors that can simultaneously perform a simple computation on multiple batches of data. In contrast, a CPU can perform more complex computations but not in parallel. This project has extended Threading Building Blocks (open source C++ library) to run computational tasks on the CPU or GPU.

Lenny Han and Can Zhang: Feature Diagram Plugin for Eclipse



We are extending a feature diagram plug-in in Eclipse which puts the structure of any Java file into a hierarchical diagram. Our goal is to implement refactoring functions in the diagram so that refactoring can be performed directly in the diagram. We believe that this extended plug-in will greatly reduce the amount of code-reading and make coding more easily and efficiently for Java developers.

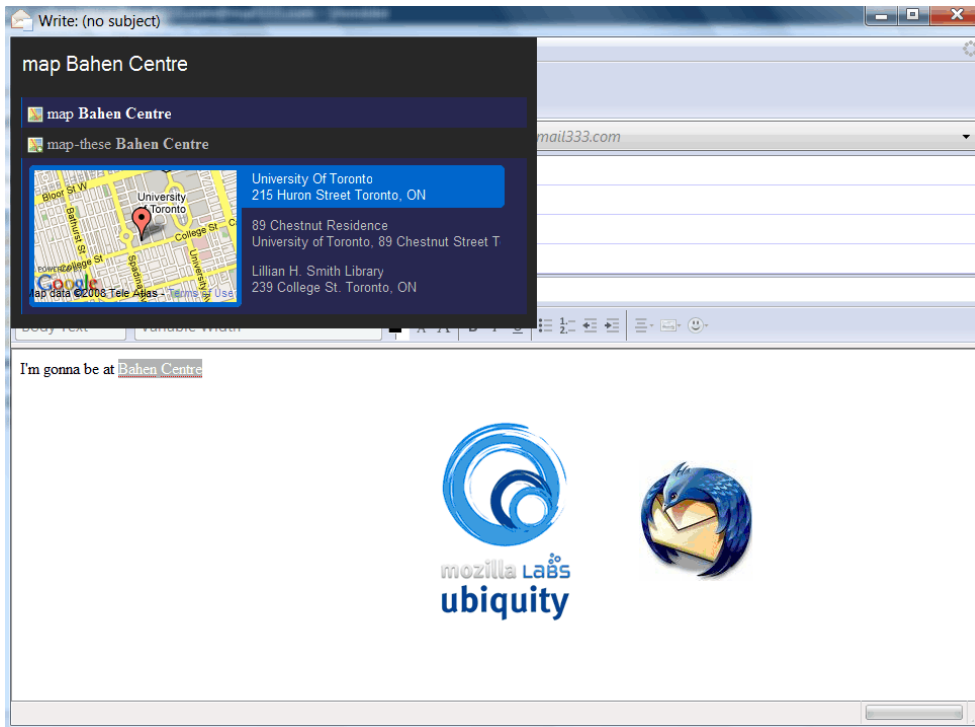
Denis Pankratov and Jennifer Ruttan: CDMA Localization with Radio Fingerprints

Test Item	Value
Call Processing State	Paging Channel S...
Service Option#	0
Slot Cycle Index	2
BAND #	Sleep mode
CH #	350
SID #	16420
NID #	5
Active Set	164
Neighbor Set	448
Rx Pwr	-65 dbm
Rx Ec/Io	5 db
Rx FER	0.0 %
Tx Adj	127



Cell phones can be used to solve the problem of accurate localization. Only a small portion of mobile phones come preinstalled with GPS chips, and GPS does not work well indoors or in urban canyons. As a result, fingerprinting and centroid algorithms have emerged to determine the phone's location. These algorithms use information from the cell towers in the area, which is captured by every phone. The project focuses on the extraction of the necessary radio information from modern CDMA phones.

Justin Foong, Vladimir Markin, and Teren Teh: Ubiquity

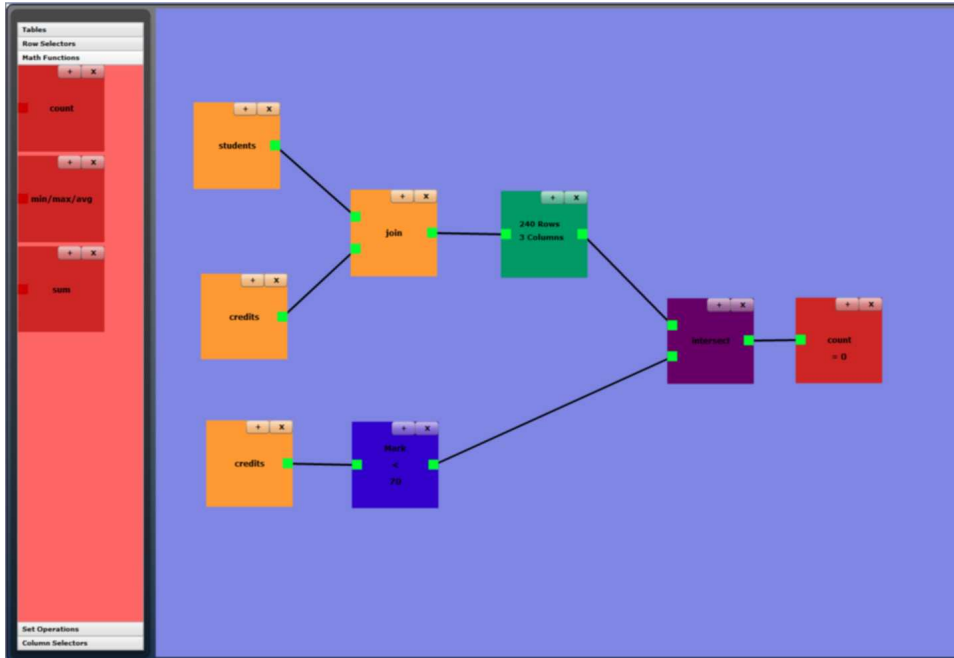


Ubiquity is a Mozilla Labs experiment into connecting the Web with language in an attempt to find new user interfaces that could make it possible for everyone to do common Web tasks more quickly and easily. Our group extended it to work in Thunderbird mail client and added some related functionality.

Miles Thibault: WikiMovies

Before a screenplay is made into a movie, it is usually rewritten several times by different authors each time. Dialogue may be weak in places, character motivation may be unclear, etc. The problem filmmakers have is finding writers that share their vision for the project. Instead of finding the best writer, they often go to people they have worked with in the past or pay extremely high fees to well-known script doctors. WikiMovies is a website where filmmakers can find the most suitable writer for their movie. The filmmaker posts a copy of the screenplay to the site along with notes on what needs to be changed. From there, interested writers can submit their rewrites. Once the rewrites have been submitted, the filmmaker can review them and contact one or more writers that she may want to work with. Aspiring writers can use WikiMovies to get their break in the industry. The opportunity to have their work read by someone that produces movies can mean the difference between waiting tables for a living and writing screenplays for a living.

Mohammad Jalali and Darren Jung: Visual Query Builder

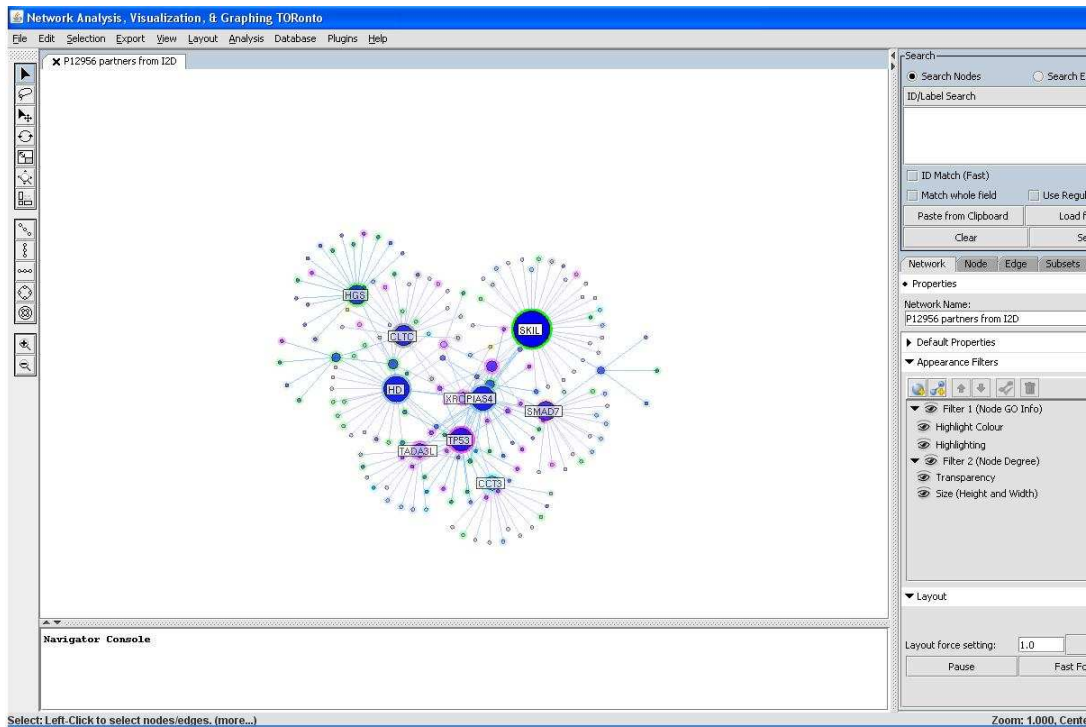


The problem with relational databases is that you need to have SQL experience to use them and unlike Operating Systems, databases never provide a simplified interface for the novice users. A successful solution would bridge this gap. Our product, FlareFlow, is a graphical interface for the database that allows users to build simple or even complex queries with just a few drag and drops. This will help a wide variety of users. For example a store owner that wants to know how well their website is doing or a scientist who wants to retrieve, evaluate and analyze data that is stored in some database. This project will save non technical users time and money, since they will not need to learn the SQL language or hire extra staff.

Leigh Honeywell: InfoTrace

InfoTrace is a web application which allows researchers to generate TCP traceroute queries which run on a geographically dispersed research network. It can be used to monitor and detect censorship, route hijacking, and other network issues.

Edward Kang and Beomheyn Kim: NAViGaTOR



NAViGaTOR is a software package for visualizing and analyzing protein-protein interaction networks. It provides a framework on which molecular information related to protein interactions can be visualized. We have developed a plugin for the software which expands on NAViGaTOR's existing set of analysis tools, by implementing algorithms for local cluster analysis.

Kosta Zabashta: Basie

basie

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Mail list

Number	Subject	From	Date
1	Re: [basie-dev] Beta Server Database	dservos@lakeheadu.ca	2008-11-26 12:58:02
3	test2	dservos@lakeheadu.ca	2008-11-26 13:18:09
4	[basie-dev] Testing and Bug Fixing of Beta	dservos@lakeheadu.ca	2008-11-26 13:22:37
5	Re: [basie-dev] Beta Server Database	me@jeffbalogh.org	2008-11-26 15:03:11
6	Re: [basie-dev] Beta Server Database	gwwilson@cs.utoronto.ca	2008-11-26 15:25:40
7	Re: [basie-dev] Testing and Bug Fixing of Beta	kosta.zabashta@gmail.com	2008-11-26 15:26:03
8	Re: [basie-dev] Beta Server Database	gwwilson@cs.utoronto.ca	2008-11-26 15:26:19
9	Re: [basie-dev] Testing and Bug Fixing of Beta	gwwilson@cs.utoronto.ca	2008-11-26 15:27:23
10	Re: [basie-dev] Beta Server Database	dservos@lakeheadu.ca	2008-11-26 15:38:53

Basie is a lightweight software development portal targeted for small to medium-sized teams, such as student projects at colleges and universities. The portal will provide ticketing/bug filing, wikis, mailing lists, code repositories, as well as administration applications. There are many similar portals, such as DrProject and Trac, however they are complex to use and maintain, rendering them almost unusable for short-term projects. Our goal is to create a portal that's easy to use, has a very flat learning curve, and promotes collaboration and project management amongst team members.