Saturday March 19, 2005 MIT room 34-101

MySQL Technical Overview
Hans Zaunere

MySQL is the ‘M’ in LAMP, the popular open source application stack that comprises Linux, Apache, MySQL, and either of PHP or Python. This seminar will focus on MySQL under the hood and its unique storage engine architecture. By utilizing a modular design, MySQL server provides solutions that meet different technical requirements such as those typical of high volume web sites, OLAP/OLTP applications or clustering environments. This seminar will also introduce database users to the enterprise features available in MySQL. Attendees will learn how to use MySQL in their environments. Attendees will also learn about the upcoming release of MySQL 5.0.

Who Should Attend?
This technical overview will in particular benefit system architects and those who are new to MySQL. Software managers, CTOs, programmers and DBAs will also benefit from learning about some advantages of MySQL.

Seminar Topics
- MySQL Company and Open Source Overview
- Basic MySQL Architecture
- Storage Engine Review
- Conclusion

Lecturer
Hans Zaunere is a sales engineer and consultant at MySQL, Inc. His role in MySQL, Inc. gives him the opportunity to deliver mission critical management and architectural guidance for Fortune 500 companies. He has established several core development communities such as New York PHP and AMP Technology. He is also on the Board of Advisors for the New York City BSD User Group. Mr. Zaunere leverages technology and open source for businesses worldwide.

Session Chair: Jim Byrd byrd@acm.org

Seminar Book Offers:
MySQL Certification Study Guide
By Paul Dablink, Steen Rasmussen, Larsen Pedersen
Publisher: SAMS Publishing
List: $44.95 PDS Price: $35

Saturday April 9, 2005 MIT room E51-345

Java Gems: Ant, Tapestry & Lucene
Erik Hatcher

While the Java language is fun, friendly, and easy to learn, to successfully build sophisticated applications, a Java developer needs to keep up with the alternatives available from the open-source landscape. This tutorial focuses on three open-source Java projects, namely, Ant, Tapestry and Lucene. Ant is the de facto Java build tool, automating steps of the development process such as unit testing, documenting, reporting, packaging and deploying. This tutorial covers the basics, tips and tricks, as well as best practices of building a web application. Tapestry is the premier Java-based web framework. Tapestry facilitates true component-oriented web development. Those who are familiar with the plumbing behind sophisticated web interfaces will be pleased at the speed at which a web application can be produced using this framework. Lucene is a very fast and scalable search engine that can be embedded into an application.

Who Should Attend?
Developers with some experience in object-oriented programming. Java developers will be right at home. C# or ASP.NET developers will benefit from seeing the best of breed Java solutions. Development managers will benefit from learning the streamlined development possibilities.

Seminar Topics
- Java development best practices
- Ant - build tool
- Tapestry - web framework
- Lucene - search engine

Lecturer
Erik Hatcher is an Apache Software Foundation member and committer on several projects including Ant, Tapestry, and Lucene. He is the lead developer and has co-authored two well-received books on Ant and Lucene. Erik has written articles for several publications, including javanet, JavaPro, and IBM developerWorks. He frequently presents at conferences such as JavaOne, O’Reilly Open Source Convention, Open Source Content Management Conference, the No Fluff, Just Stuff symposiums, and Java User Groups. Erik is a developer at the University of Virginia’s Applied Research in Patacriticism department.

Session Chair: Lena Lai lenalai@acm.org

Seminar Book Offers:
Java Development with Ant
By Erik Hatcher, Steve Langgham
Publisher: Manning Publications
List: $44.95 PDS Price: $30

Licenses in Action
By Otis Gospodnetiæ, Erik Hatcher
Publisher: Manning Publications
List: $44.95 PDS Price: $30

Tapestry in Action
By How ard M. Lewis Ship
Publisher: Manning Publications
List: $44.95 PDS Price: $30

Saturday April 30, 2005 MIT room 34-101

Model-Oriented Architectures and Frameworks for Swing-based User Interfaces
Dan Jacobs

Building complex, functional, scalable, user-friendly, and robust user interfaces is a difficult task. The two most important jobs of any user interface are maintaining a high level of confidence from the user, and performing the right work in cooperation with the back-end of the application. Good model-oriented approaches to user-interface design and implementation, in conjunction with good supporting frameworks, help to address both of these concerns by providing consistency and reliability in the interface itself, and coordinated separation of front-end and back-end logic.

Swing is based on a variation of the Model-View-Controller (MVC) design pattern, but the models and controllers in Swing’s world are not application models and application controllers. Model-oriented architectures expose another level of MVC in which Swing is used to implement the view, while the application model and controllers are expressed in the language of the application. This presentation explores this higher level and examines practical ways to build world-class user-interfaces using Java and Swing.

Who Should Attend?
Experienced object-oriented software developers who want to learn how to build better desktop-style user-interfaces with a lot less effort. Familiarity with event-driven user-interface development is useful. Familiarity with Java and Swing, while useful, is not essential.

Seminar Topics
- Object-oriented design patterns for structuring model-oriented user interfaces
- Tips and tricks to use Swing effectively
- Concrete approaches for implementing form-style editors, tree-based and table-based viewers
- Concrete approaches for data validation at multiple levels

Lecturer
Dan Jacobs has an M.S. in Software Engineering and over 20 years of experience as an architect and developer of object-oriented software. Dan started Model/Objects Group in 1993 (originally Tech Tonic Nettysystems), as an independent consulting company specializing in providing assistance in all areas of Java architecture and development for the Boston area software community. Dan is also the President of JPlates Inc., which provides commercial software tools for object-oriented development of web applications and code-generation applications. In addition, Dan has served as the chairman of the Boston area ACM WebTech chapter since 1997.

Session Chair: Peter Mager p.mager@computer.org

General Information

Schedule
8:30am-9:06am Registration (continental breakfast)
9:00am-12:15pm Morning session (break ~ 10:30am)
12:15pm-1:30pm Lunch (provided on site)
1:30pm-4:30pm Afternoon session (breakfast ~ 2:30pm)
5:30pm-7:30pm Opt dinner with speaker (self-pay)

Registration Fees
Seminar materials, lunch, and refreshments are included in the $80 fee. Registrants not current members of the GBC/ACM are charged an additional $10, and become members of the chapter for a year. This is distinct from ACM membership. Surcharge for on-site registration is $10. Purchase tickets, faxes and e-mail cannot be accepted. Early registration must be made by mail with a check or money order, or on-line with a credit card at:
http://www.gbcacm.org/registration

Payment for on-site registration can only be made by cash or check. Enrollment is limited and on a first-come, first-served basis. To receive confirmation from GBC/ACM, register at least three weeks in advance of the seminar.

Cancellation & Refund Policy
Cancellations must be received in writing. The full seminar fee will be refunded if the PDS Registrar receives written notification before the start of the seminar, addressed to:

GBC/ACM
PO Box 40
Lexington MA 02420-0005

Refund requests received after the seminar date will be subject to a $15 administrative fee. The $10 membership fee will not be refunded.

If the books are not available at the time of the seminar, the amount prepaid for the book will be courteously refunded.

Questions
For the latest update, see: http://www.gbcacm.org or call:
(781) 862-1181
The GBC/ACM is in the process of establishing a pilot program to offer students and the unemployed a reduced rate of admission to the Professional Development Seminars. For those that qualify, the fee will get the same attendance at the seminar, lecture notes, snacks, and lunch that would normally cost $80. They do not have to pay $10 to join the GBC/ACM unless they want to become GBC/ACM members. Students/unemployed have the option of purchasing the related books if they choose. An additional $10 discount will be offered to full-time students enrolled at the institution where the seminars are conducted (currently MIT).

The GBC/ACM web site www.gbcacm.org accepts registrations and credit card payments at the normal rate, but it is not set up to accept these student/unemployed scholarships yet. To register at the discounted student/unemployed rate, email Peter Carmichael pcarmichael@alum.mit.edu

New Pilot PDS Scholarship Program Offered to Students and the Unemployed

The GBC/ACM is in the process of establishing a pilot program to offer students and the unemployed a reduced rate of admission to the Professional Development Seminars. For those that qualify, the charge will be only $40 (not to include any books purchased). Students/unemployed paying this $40 fee will get the same attendance at the seminar, lecture notes, snacks, and lunch that would normally cost $80. They do not have to pay $10 to join the GBC/ACM unless they want to become GBC/ACM members. Students/unemployed have the option of purchasing the related books if they choose. An additional $10 discount will be offered to full-time students enrolled at the institution where the seminars are conducted (currently MIT).

The GBC/ACM web site www.gbcacm.org accepts registrations and credit card payments at the normal rate, but it is not set up to accept these student/unemployed scholarships yet. To register at the discounted student/unemployed rate, email Peter Carmichael pcarmichael@alum.mit.edu

Building 34 is located on Vassar Street about halfway between Main Street and Massachusetts Ave. It is a small square building turned 45 degrees to the street so it may look like a diamond, especially with a glass atrium entrance. Building 34 is set back a few yards from the street and the line of other buildings. It is between buildings 36 and 38.

Building E51 is the Tang Center. The street address is 70 Memorial Drive. It is located at the north west corner of Memorial Drive and Wadsworth Street.

Parking:
There are metered parking spots on Vassar Street and free parking spots on the north side of Memorial Drive. There is also a commercial parking lot at the intersection of Vassar Street and Mass Ave. There is another commercial garage on Ames Street, behind Legal Seafood. Parking in MIT’s lots follows the rules and regulations of MIT.

Public Transportation:
Red line to Kendall Square. Walk west on Main Street and turn left onto Vassar Street for building 34. Walk east on Main Street and turn right onto Wadsworth Street for building E51.
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PCs for Everyone
24 Charles Street, Cambridge, 02141
http://www.pcseveryone.com

Websites of some Local Groups

GBC/ACM
www.gbcacm.org

SIGGRAPH
www.siggraph.org/chapters/boston

Boston SIGCHI
www.boschsgi.org

WebTech
www.acm.org/chapters/webtech

SPIN
www.boston-spin.org

IEEE
www.ieee.org

IEEE Consultants Network
www.ieee-boston.org/consultants.htm

Boston-area User Group Calendar
www.bugc.org

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March Meetings (continued from page 3)

New England Security Information Group

Topic: Preparing for the Next Wave of Attack

Date/Time: Thursday, March 17, 2005 6:30 PM

Location: Microsoft Office, Waltham, MA

Details: http://www.negis.org/Meetings/Default.htm - Meetings are free but require advance registration.

January 2005 Brain Teaser Solutions

1. Once Upon a Time
2. Preventive Strike
3. Under Study Dances
4. Dog Days
5. Five Alarm Fire
6. Circulating Library
7. Courts in Order, Order in the Court
8. Chopped Onion
9. Anti Indigestion
10. Foreign Oratory
11. Jail Bird
12. Rain in Spain Stays Mainly on the Plan

Gym Locker Solution will appear in a future edition

Hint: solution can be stated in terms of a special number property

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Book Title:

Seminar

Advanced Registration $80

Work In $90

MySQL Technical Overview $249

MySQL Certification Study Guide $29

Java Gems: Ant, Tapestry and Lucene $80

Java Development with Ant $184.95

Lucene in Action $108

Tapestry in Action $109

Model-Oriented Architectures and Frameworks for Swing-based User Interfaces $80

GBC ID # (required)

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Total

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**Calendar of Upcoming Events**

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Language is our basic tool of thinking and communicating. A meta-language supports the consistent creation of domain-specific languages, such as the languages of chemistry, electrical engineering or rocket science. And having an executable meta-language gives you an automated language generation and computation capability. Ben Koo’s recent research developed an executable meta-language that supports system architects’ modeling processes by automating certain model construction, manipulation and simulation tasks. This language facilitates systematically communicating an architect’s intent with a wide range of stakeholders and organizing knowledge from various domains. The investigation into existing architecting approaches and technologies has pointed out the need to develop a simple, yet formal language that expresses multiple layers of abstractions, provides reflexive knowledge about the models, mechanizes data exchange and manipulation, while allowing integration with legacy infrastructures. A small set of linguistic primitives, stateful objects and processes that transform them, were identified as both required and sufficient building blocks of the meta-language, specified as an Object-Process Network (OPN). To demonstrate OPN’s practical value in large-scale engineering systems, the research applied OPN to two space exploration programs and one aircraft design program. In these experiments, OPN was able to significantly simplify the modeling and architectural reasoning process by automating a number of manual model construction, manipulation, and simulation tasks.

Dr. Benjamin Koo served as a software architect in the Information Technology industry for many years. He provided enterprise application integration services to various Fortune 500 corporations, mostly in the Financial and Telecommunication industries. He received his doctoral degree from MIT, where his primary research interest focused on the theory and instrumentation for system architecting.

He is currently a Post-Doctoral Associate at MIT, working on the Concept Evaluation and Refinement program sponsored by (continued on page 3)