



*518 Interactive*

*J.O.I.T*

Acceptance Test Presentation

Client Dr. Darren Lim

4/27/2010

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# Welcome

Client:

Dr. Darren Lim  
Assistant Professor  
Siena College

Instructor:

Dr. Timothy C. Lederman  
Our Professor  
Siena College

Special Guests & Students



# TEAM 518

- Erik Stegmann- Team Leader
- Larry Gregory - Senior Software Developer & Database Administrator
- Christopher Hughto - Webmaster
- Jedidiah Turnbull - Systems Administrator
- Connor Vander Bogart - Organizational Information Manager



# Agenda

- Team Introduction
- Restatement of Problem
- Project Progression
- Requirements inventory
- Testing
- System Demonstration
- Future Enhancements
- Deliverables
- What's Next?
- Timeline
- Questions



# Restatement of Problem

- Dr. Darren Lim, an assistant Professor at Siena College, has a busy schedule.
- Programming projects are time consuming to grade.
- Manual testing and grading is inefficient for both students and faculty

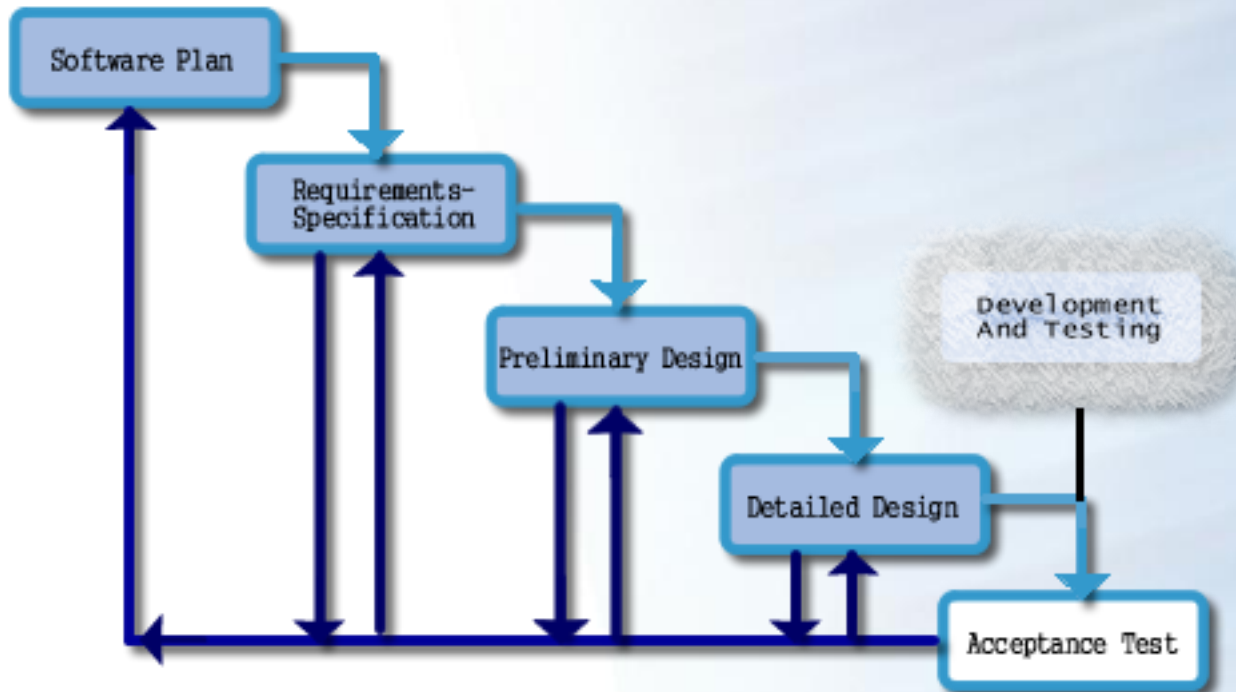
# Solution to the Problem

- The *Java Online Learning Tool* *J.O.L.T*
- Comprehensive web application designed to enhance the experience of learning the Java programming language.
- Capabilities for students enrolled in programming courses to solve programming problems
- Problems can be created by the Computer Science faculty at Siena College.
- Personal gradebook for all students, as well as a course gradebook for Computer Science faculty members which is used to track progress.

**Acceptance Test Document Section 1.4: “Product Overview and Summary” Page 2**



# Where we are in Development



# Requirements Inventory

- Types
- Provides a basis for understanding between the client and the developers
- Set of criteria to develop the system
- Drives Our Testing

**Section 2.2 of the Acceptance Test Document Pages 3-7**



# Requirements Inventory Example (Student)

- Are able to register online with the system. **Met**
- Receive email confirmation following registration. **Met**
- Are able to log into system. **Partially Met**
  - A failed log in displays an appropriate error message. **Met**
  - A link to an identity validation page is provided if password is forgotten. **Not Met**
  - 3 Failed login attempts leads to system lockout. **Met**

**Acceptance Test Document Section 2.2.1 Functional Requirements Inventory: Student Page 4**

## Requirements Inventory Totals

- Met: Student:22, Faculty: 21 , Course Coordinator: 12, Administrator:11, Java SDK:7
- Unmet: Student:1, Faculty: 1, Course Coordinator: 5, Administrator: 1, Java SDK:0
- Partially Met: Student:1, Faculty: 4, Course Coordinator: 2, Administrator: 2, Java SDK:0
- Overall: Met: 73, Unmet: 8, Partially Met: 9
- Total: 73/90 Met (~ 81%)

# Testing

- Overview
- System Test
- Integration Tests
- Regression Tests
- Unit Tests
- Test Cases

**Test Results Document Sections 4.1-4.5 Page 21**

# Unit Test Catalog

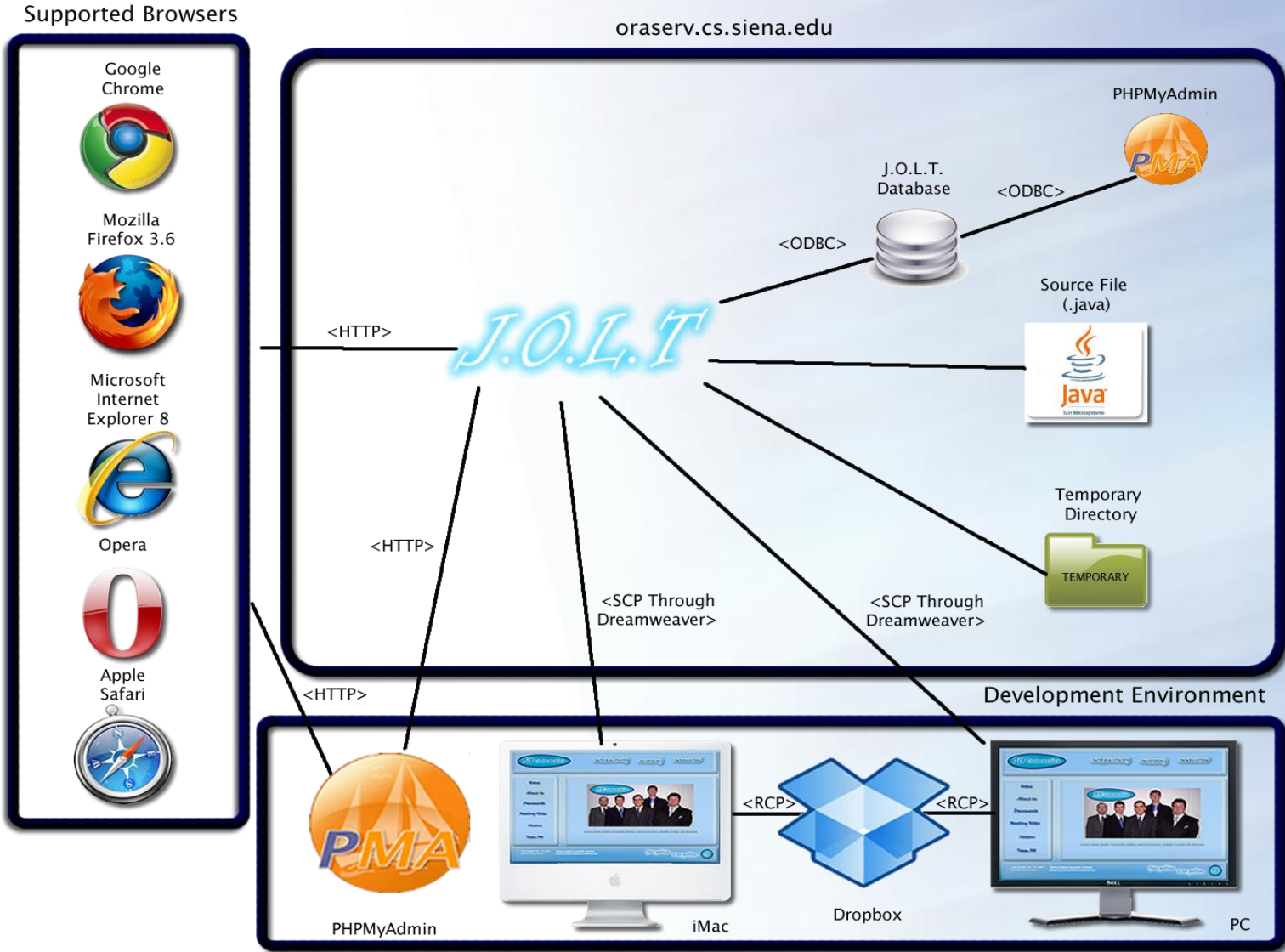
Pass/Fail Status		Unit Number	Unit Test Name	Date Last Tested	Comments	Integrated with these units
P		1	<a href="#">Header Subtest</a>	04/21/10		All Unit Tests
P		2	<a href="#">Footer Subtest</a>	04/21/10		All Unit Tests
P		3	<a href="#">Announcements Subtest</a>	04/21/10		6,19,24,25,37,38,48,49
	F	4	<a href="#">Log In</a>	04/21/10	<i>Reset Passowrd not functional</i>	1,2
P		5	<a href="#">Register</a>	04/21/10		1,2
P		6	<a href="#">Admin. Welcome Page</a>	04/21/10		1,2,3,7,9,10,11,15,16,22
P		7	<a href="#">Admin. Manage Pools</a>	04/24/10	Admin needs to approve their own problems when transferring from private to global. Functionality is all there however.	1,2,8,15,16,17,18,
P		8	<a href="#">Admin. Pending Problems</a>	04/18/10		1,2
P		9	<a href="#">Admin. Manage Courses</a>	04/18/10		1,2,
P		10	<a href="#">Admin. Manage Sandbox</a>	04/24/10		1,2,15,16,17,18
P		11	<a href="#">Admin. Manage Users</a>	04/18/10		1,2,12,13,14,23
P		12	<a href="#">Admin. Create C.C.</a>	04/18/10		1,2,
P		13	<a href="#">Admin. Create Faculty</a>	04/18/10		1,2
P		14	<a href="#">Admin. Create Student</a>	04/18/10		1,2
P		15	<a href="#">Admin. Create Problem</a>	04/24/10		1,2,7,10
	F	16	<a href="#">Admin. Create Problem Set</a>	04/24/10	Course Pool appears when not in a specific course/section	1,2,7,10

**Test Results Document, Section: "Unit Test Results"**

# Unit Test (Administrator Welcome Page)

Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By	Test Date
P	6.001	Header Subtest							JT	4/18/10
P	6.002	Footer Subtest							JT	4/18/10
P	6.003	Announcements Subtest							JT	4/18/10
P	6.004	Manage Pools button	Click specified button	Load Page, click specified button	Page Loaded	User brought to Manage Pools page	User brought to Manage Pools page		JT	4/18/10
P	6.005	Manage Courses button	Click specified button	Load Page, click specified button	Page Loaded	User brought to Manage Courses Page	User brought to Manage Courses Page		JT	4/18/10
P	6.006	Manage Sandbox button	Click specified button	Load Page, click specified button	Page Loaded	User brought to Manage Sandbox Page	User brought to Manage Sandbox Page		JT	4/18/10
P	6.007	Manage Users button	Click specified button	Load Page, click specified button	Page Loaded	User brought to Manage Users Page	User brought to Manage Users Page		JT	4/18/10

# Deployment Diagram (UML)



***Acceptance Test Document, Section 3.3: UML Deployment Diagram Page 12***



## System Demonstration

J.O.L.I.T



# Future Enhancements

- Detecting recursion
- Report Generation
- Multi-select and drag and drop pool interface
- Views to change user type quickly
- Linkable accounts

**Acceptance Test Document Section 2.2.7: Future Enhancements Page 8**



# Deliverables

- Acceptance Test Document, Test Results Document
- A full copy of the completed team files from the 518 Interactive team directory, including, all website files (all folders, files, images, etc.)
- A README.TXT file that explains what files are where.
- Team Song
  - Digital Copy with lyrics superimposed
  - Live Performance with lyrics printed

**Acceptance Test Document Section 4.8:Deliverables Page 154**



# Timeline

## J.O.L.T Timeline (Acceptance Test Presentation)

Task	Start	End	Duration	% Complete	2010 518 Interactive				
					January	February	March	April	May
Team Meetings (Occurs Tuesdays 5:30pm-6:00pm and Thursdays 9:00am-10:00am, Excluding Holidays & Breaks)	1/20/2010	4/30/2010	73	100.0	[Completed Task Bar]				
Client Meetings (Occurs Tuesdays 4:00pm-5:00pm and Thursdays 3:00pm-4:00pm, Excluding Holidays & Breaks)	1/28/2010	4/30/2010	67	100.0	[Completed Task Bar]				
Detailed Design	1/21/2010	3/8/2010	33	100.0	[Completed Task Bar]				
Detailed Design Presentation	3/9/2010	3/9/2010	1	100.0	[Completed Milestone Diamond]				
Development & Testing	3/10/2010	4/26/2010	34	100.0	[Completed Task Bar]				
Acceptance Test	4/27/2010	4/27/2010	1	100.0	[Completed Milestone Diamond]				
Academic Celebration	4/30/2010	4/30/2010	1	0.0	[Incomplete Milestone Diamond]				
End Of Year Party	5/3/2010	5/3/2010	1	0.0	[Incomplete Milestone Diamond]				

**Key:**

- Completed Milestone ◆
- Completed Task [Black Bar]
- Incomplete Milestone ◆
- Incomplete Task [Grey Bar]
- Linked Task [Arrow]

**Acceptance Test Document Appendix 3 “Current Timeline”**

4/27/2010



# What's Next

- Academic Celebration 4/30/2010
- End of Year Party 5/3/2010
  - “*We programmed J.O.L.T.*,” a parody of “*I’m on a Boat*” (by The Lonely Island, Featuring T-Pain) to be performed by 518 Interactive, Featuring C-Pain™





*518 Interactive*

*J.O.I.T*

Questions?

Thank You For Coming