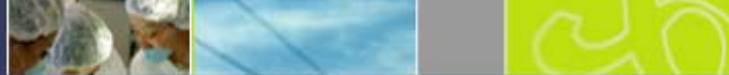




**sanjosestateuniversity**



**Web Solutions@SJSU**

**Open Source Software:  
Days of Dialogue**

**CSU Monterey Bay**

**Feb. 9-10 2006**

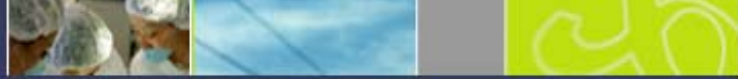
***<http://opensource.sjsu.edu>***

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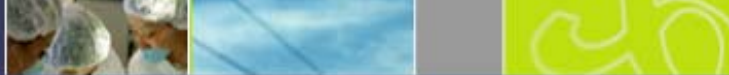
## Agenda

- ❖ [www.sjsu.edu](http://www.sjsu.edu) re-design
- ❖ Open source web solutions
- ❖ Lessons learned

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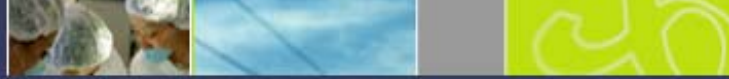
## SJSU Redesign Goals

- Develop a website that embodies the University's mission
- Create a site that is easy to use and navigate
- Develop a system that simplifies both maintenance and management

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## SJSU Web Redesign Project Overview

RFP 1

Discovery - Civic Resource Group  
Nov. 2001-April 2002

RFP 2 -Build-Out Razorfish

Analyze  $\Rightarrow$  Design

February 2003 - April 2003

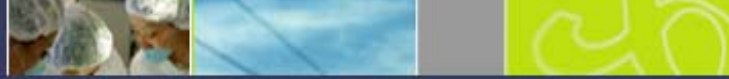
Build  $\Rightarrow$  Test  $\Rightarrow$  Production

April 2003-August 2003

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## Discovery Process completed by Civic Resource Group

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### Information Sources

- I. In-depth individual interviews with 38 important stakeholders
  - President
  - Provost
  - Academic Senate Chair
  - Associated Student President
  - CEO, Chamber of Commerce
  - Alumni-Sr. VP of Communications, IBM
  - Prospective students & counselors
- II. Seven focus groups with 52 participants
- III. Online web survey with 850 respondents
- IV. Intercept interviews with 48 students
- V. Best practices study of University Sites
- VI. Analyzed site environment and usage





## RFP Propose content management solutions to facilitate authoring publishing & management of content sites

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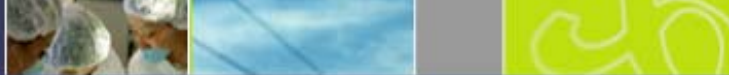
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### Razorfish response to RFP

#### Two solutions for Content Management Systems(CMS)

1. Build a custom solution
  - Involves custom development of CMS tool using open development standards (PHP, etc.)
  - Enables administrative management of the dynamic system within customized “administrative tools” on the front end
2. Integrate a commercially available solution
  - The “Bolt” Option involves commercially available CMS software within the existing IT infrastructure





## Razorfish recommends using the Custom-Built Open Source Option

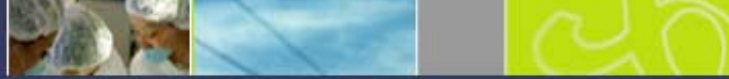
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### Advantages

- Low upfront cost
- Highly customizable and flexible
- Extendable enough to increase functionality & be repurposed in the future
- Open source - community supported technology
- Data manipulation is simple
- User interface with a database in the back end to drive all functionality is highly customizable and simple to create





## Key applications

- ❖ Webserver
  - ❖ Apache, Tomcat
- ❖ Database
  - ❖ MySQL
- ❖ Content Management System
  - ❖ OpenCMS
- ❖ Source code control
  - ❖ CVS
- ❖ Incremental file transfer
  - ❖ rsync

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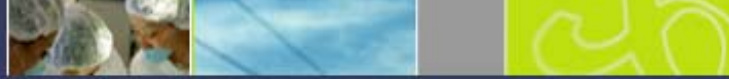
How it works:  
dev  
stage  
production

- ❖ Development
  - ❖ Stand-alone development and testing environment
- ❖ Stage
  - ❖ Content is a mirror image of production
  - ❖ Master database
  - ❖ Content via OpenCMS, FTP
- ❖ Production
  - ❖ Extremely locked down
  - ❖ Slave database

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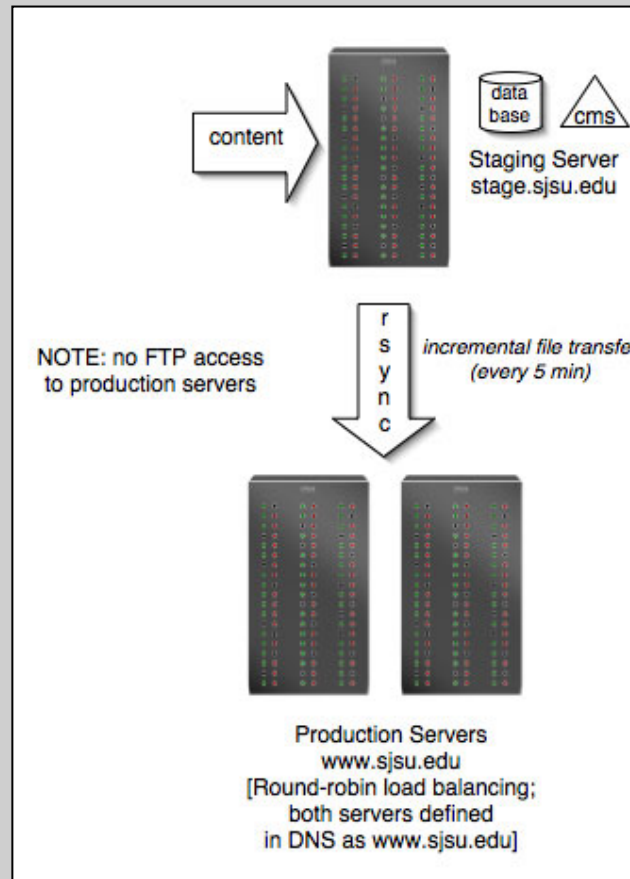


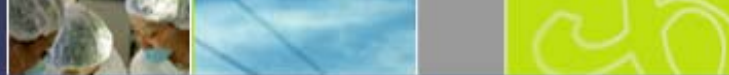


## How it works: Stage & Production

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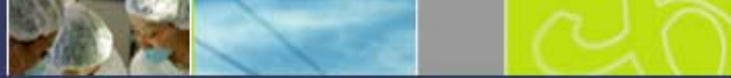
## Don't forget

- ❖ Fine tune
  - ❖ sjsu.edu go-live lesson
- ❖ Security
- ❖ Backup plan

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## Troubleshooting

- ❖ Development environment
- ❖ Log files
  - ❖ Log level
  - ❖ JDK Logger
- ❖ Mailing list
- ❖ IRC Channel

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