The Next Wave of Web Registration: Integrating Academic Planning with Registration

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Brigham Young University
- Private University
- 34,000 Day & Eve. Students
- 10 Academic Colleges
- Located in Provo, Utah
  (45 Miles South of Salt Lake City)

Established in 1875

Presentation Outline
- Old Wave
- Objectives
- What is MyMAP
- Development Architecture
- Demonstration
- Questions/Lessons Learned
BYU’s ‘Old Wave’

- Paper Planning Tools
  - 440 page catalog
  - 150+ page class schedule
  - MAPs (Major Academic Plans)
  - Course sequence charts
- Electronic Progress Report
- Web Registration

Student Centric Objectives

- Integrate Multiple Planning Tools into One
  - MAPs (Major Academic Plans)
  - Progress Report (Degree Audit)
  - Catalog
  - Class Schedule
  - Registration
- Simplify

University Objectives

- Implement Analysis Capability
  - Course Demand Tracking
  - College and Departmental Reports on Plans
  - Pre-requisite checking
- Incorporate Graduate Student Model
  - Study Lists
  - Committee Selection and Approval
What Is MyMAP (My Major Academic Plan)

- BYU’s new student academic planning and registration system combines features of the progress report (degree audit report) with catalog course descriptions, class scheduling information, sequencing recommendations from the Major Academic Plans (MAPs), and registration. Each function has been organized into one dynamic tool, creating a comprehensive academic plan leading from matriculation to graduation.

Development Architecture

- Integrated with BYU’s Student Information System
- Uses Oracle as its database
- Built with a C framework
- Built on a Degree Audit Foundation
- Presentation Layer coded in C
- Built Back-end (business algorithms) Engine
- SOA — Service Oriented Architecture
- JAVA
Technical Considerations

Demo

Questions?

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Lessons Learned

- Project took too long to implement
  - Implementation of SOA & JAVA
  - Learning curve
- Plan on personnel & office structure changes
  - Engineer left mid-stream
  - Changed user sponsorship midstream

Lessons Learned

- Include the right players at the right time
- Deal with ownership perceptions early
  - Establish leadership
  - Negotiate shared understandings

Lessons Learned

- Many models are difficult to implement
  - Graduate
    - Study lists
    - Committees
  - Undergraduate
- Increased Visibility = Increased Scrutiny
  - Expect Data Update Requests
  - Data was more visible than ever