ONLINE FLOWCHART AND ADVISING SYSTEM

Team Flowriders
Travis Lazar | Eric Herman
Christopher Johnson | Peter Janak

Sponsors
Dr. James Vallino | Dr. Edward Hensel
Lana Verschage | Sarah Mittiga

Coach
Daniel Krutz

Senior Project
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Background Information
An academic program worksheet and flowchart is the primary communication path between a student and their academic advisor. Within a program, a student's record is often maintained on a paper worksheet or electronic document. Planning is usually captured with notes made on these documents which can be difficult to manage. The conversion to a semester system also resets this planning knowledge to zero.

Features
- Display student record in flowchart and worksheet views.
- Allow students to plan future classes from both views.
- Create curricula that are abstract enough to convert between semesters and quarters.
- Attach annotations and files to a student's record.
- Importing and exporting of student data.
- User roles with different user permissions.

Constraints & Assumptions
- Web based for universal access.
- Abstract curricula for any department at RIT.
- Supportable by ITS.
- Deployable on the ITS system.
- Artifacts must be acceptable by ITS for development.
- Exporting must follow the proper pre-defined IAP format.

Technologies
- Java
- Struts
- jQuery
- Apache Tomcat
- Hibernate

Process
Software Concept
Requirements Development
Architectural Design
Stages 1 - 4
Software Release

Lessons Learned
- Use better techniques for estimating deadlines.
- Don't overestimate the team's ability.
- Watch out for scope and feature creep.
- Negotiation skills are useful.

Two Student Record Views
Flowchart
Worksheet

Mapping Semester and Quarter Courses

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<th>Credits</th>
<th>Grade</th>
<th>Term Taken</th>
<th>Taken Course Name</th>
<th>Taken Course Number</th>
<th>Equivalent Course Number</th>
<th>Placeholder Name</th>
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