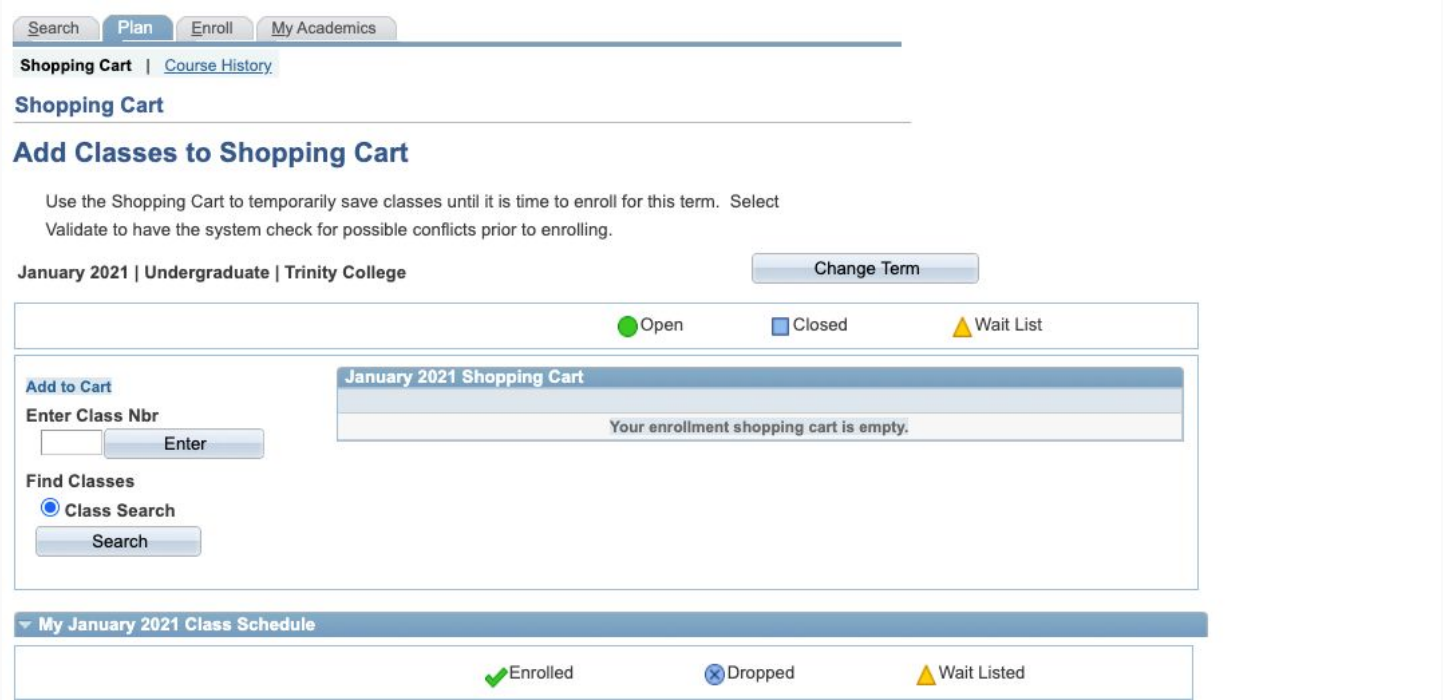
The Priority Algorithm Processed Course Offering Application for Trinity (PapCoat)

By Edwin Aldrich, Logan Drescher, and Bettina King-Smith

Trinity's Current System



Alternative Systems

Tufts University

Bowdoin College

Alternatives (cont)

Shopping Cart Appointments

Session	Appointment Begins	Appointment Ends
Regular Academic Session	October 28, 2013 8:00AM	January 18, 2014 5:00PM

Enrollment Appointments

Session	Appointment Begins	Appointment Ends	Max Total Units	Max No GPA Units	Max Audit Units	Max Wait List Units
Regular Academic Session	November 13, 2013 8:00AM	November 15, 2013 5:00PM	5.50	5.50	5.50	5.50

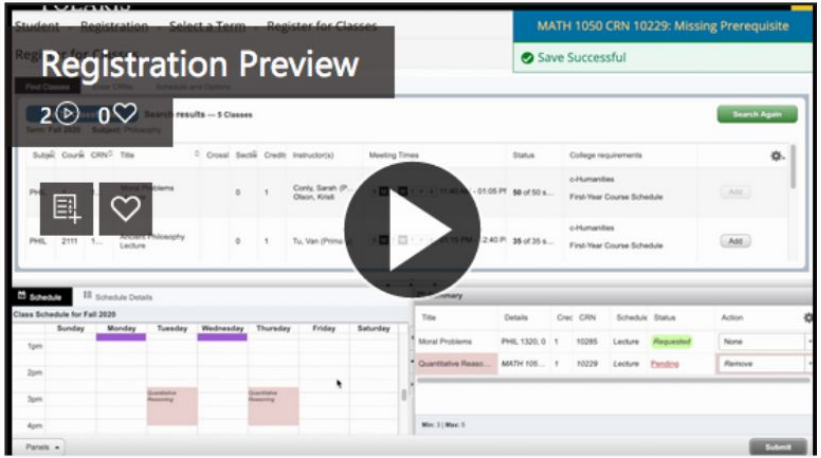
Open Enrollment Dates by Session

Session	Begins On	Last Date to Enroll
Regular Academic Session	January 16, 2014	April 28, 2014

Term Enrollment Limits

Max Total Units	Max No GPA Units	Max Audit Units	Max Wait List Units
5.50	5.50	5.50	5.50

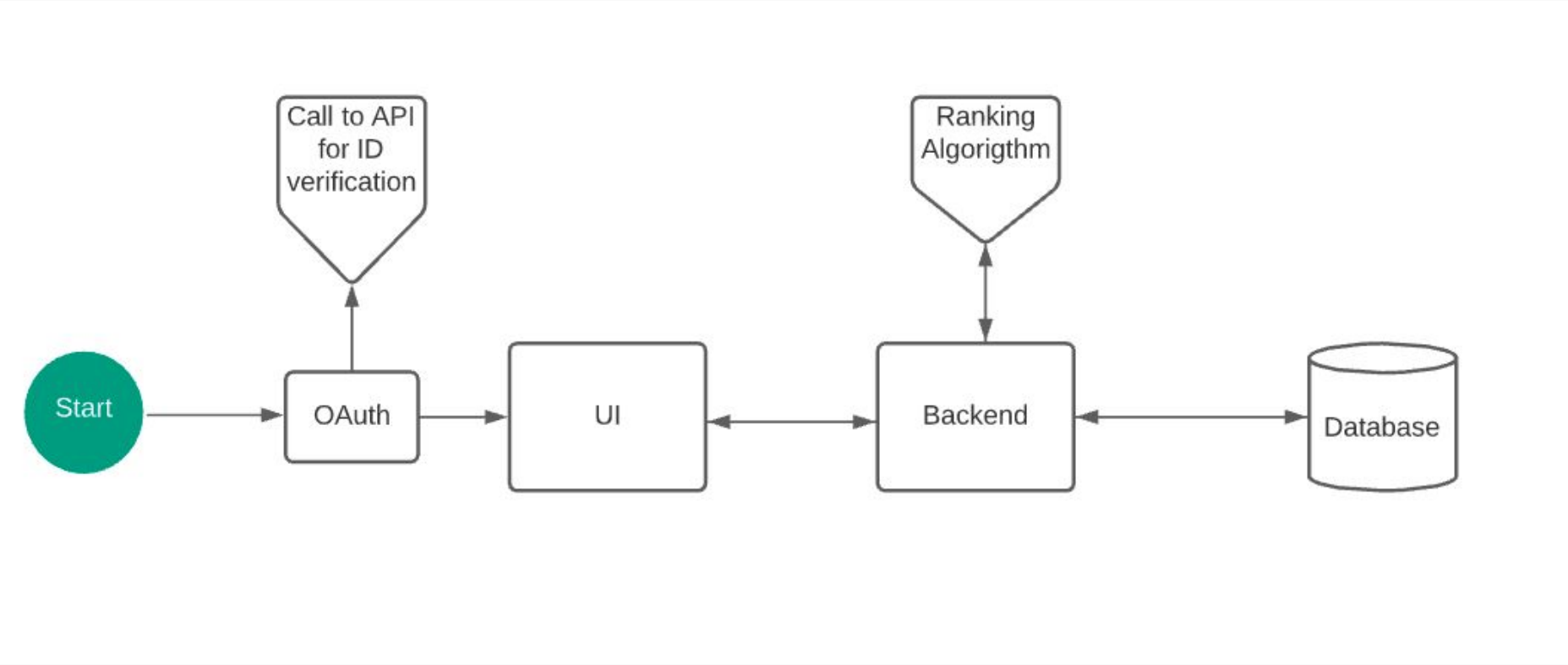
Tufts



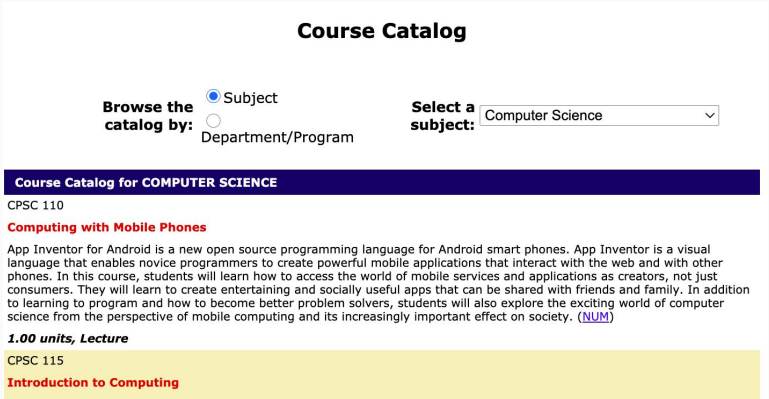
Bowdoin

Solution: New Course Registration System

Our Design:


Call to API for ID verification
Ranking Algorigthm
Start
OAuth
UI
Backend
Database

New Rank-Based Course Registration System

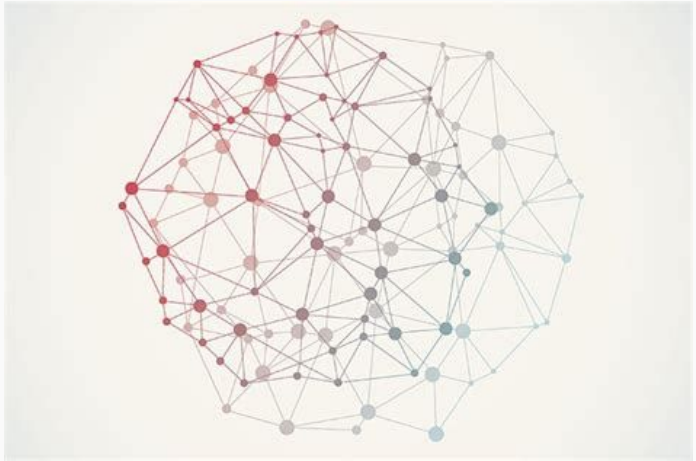


1. Database to store course information

2. Database to store student preferences

New Rank-Based Course Registration System

3. New User Interface for students to select courses



4. Algorithm to match students to prefered courses

Design Schedule

Key:

Black: Everyone

Yellow: Edwin

Blue: Bettina

Red: Logan

A mix of primary colors -> collaboration

Possible Expanded Features

Note: This is only if we have time, and even still most of these feature will not be implemented.

Algorithm:

- Add Major and Minor Priorities
- Add Teacher Priorities
- Add Guidance Counseling
- Dynamic Class Offering

UI:

- Add Future Planning
- Live Suggestions to Shopping Cart

Questions?