CSE 403
Project Description
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“A Better Scheduler”

Introduction
The “Better Scheduler” is a project that is designed to streamline the class registration process for UW students (and eventually students of other Universities). It will offer improved interface, increased functionality, and less friction for use by Students.

Motivation
The motivation for this project is the overall unappealing process that students must deal with during the creation of their schedule. The current system has very few options for displaying potential schedules, easily modifying schedules, or identifying reasonable distances between classes. By offering this increased functionality (which is laid out below), we will be alleviating the pain points that about 40,000 students must deal with each quarter.

Features:
Some of the features that Better Scheduler will offer are:
- A UI that offers “click and drag” modification to classes to change schedule.
- Integration with Bing/Google Maps for distance calculations
- Improved front end with sortable and presentable results of the potential schedules.
- Variety of sorting options, such as ‘Least time on campus’, ‘Smallest walking distance’, etc

Technologies
- utilize bing/google to compute distances
- use MySQL or similar for data storage
- use Java or similar for server app
- use 'modern web front libs' (marionette/agile/etc)
- Titanium/Phone gap to port to mobile

Potential Limitations
- Obtaining UW building gps locations (may require a crawler)
  - alternative solutions: switch to a different campus smaller or with open api
- Obtaining UW course info without an open API
- Ensuring that our final result truly offers an overall more appealing system that what is currently implemented.
- Scaling our services to multiple universities.