

**TEAM #1: 1-Direction**

1. *Patrick Mc Grath*
2. *Daniel Belonio*
3. *Joshua Nwabuzor*
4. *Tyler Pham*
5. *Antoine Merino*

**REQUEST FOR PROPOSAL****Project Title**

Class Selection Rework With Notifications

**Introduction**

Hello. My name is Sennacherib Taran. I represent the CSULB IT Division. We have noticed that the online student portal for selecting classes could be improved significantly. Specifically, we want to have a notification system set up that will notify students when new class sections open up. As of current, students have little to no means to be notified when a new class section is opened, causing a severe inconvenience when selecting classes and organizing a schedule that students will have to adhere to for a whole semester. We are seeking proposals from not only outside developers, but students in our Computer Science department seeking to further expand their portfolios.

**Project Objectives**

The goal of this project is to create an intuitive class selection system and implement a notification system, which will allow users to select the classes they would like to be notified of, and be notified based on the department of the class, the specific class, the professor of the class, times for the class, whether classes collide, and the mode of the class (online, asynchronous, or in-person).

### **Scope of Work**

The proposed would need to include the following functionalities.

- I. *Functional Notification System*: The ability to actually choose whether or not to be notified about selected classes, which adds a user to a list of other users that are to be notified if something arises. Users should be able to receive notifications through the means of their choosing, primarily means such as their school email or phone number.
- II. *Professional Course Description*: For each course, we'd like there to be a displayed description of what it has to offer, what days and times the sections within the course are offered, the professor of the course section, and a link to the professor's Rate-My-Professor site score to give students a glimpse into what they can expect from the professor of the course.
- III. *Improved Class Filter*: Ability to access a larger catalog of courses with filters regarding department, major, minor, and/or applicability towards multiple requirements whether it be a general education course or one applying towards another minor or major.
- IV. *Conflict Detection*: Prevents and notifies users regarding duplicate instances of classes and classes that conflict with already selected classes. In the case of conflicting times between courses, the user should be given suggestions on alternate time slots for the same courses.

### **Technical Requirements**

- Be able to program software that finds and organizes courses based on the student's major or specifications.
- Ability to write code that accesses the database of courses and ability to check for new course additions relevant to individual students using the course selection site.

### **Payment and Schedule**

We're open to discussing payment once we've viewed project proposals. The sooner we can start working together, the better we can solve this issue.

I hope this RFP finds you well and I look forward to hearing back from you.

Sincerely,  
Sennacherib Taran

## PROBLEM STATEMENT

<p><b>The problem of</b></p>	<ul style="list-style-type: none"> <li>• Lacking notifications regarding new class openings and timeslots.</li> <li>• Lack of organization, students see course options unrelated to their major or path.</li> </ul>
<p><b>Affects (who)</b></p>	<ul style="list-style-type: none"> <li>• Students who lack the necessary time to open the Student Center to check whether or not their desired class is available and can fit in their schedule.</li> </ul>
<p><b>The impact of which is</b></p>	<ul style="list-style-type: none"> <li>• <i>Inefficient Schedule Planning</i>: In order to make necessary edits for the students schedule, the process requires back and forth checks on classes.</li> <li>• <i>Time Consuming Process</i>: In order to change classes, the time frames have to be ensured there are no collisions. This notification is not shown prior to putting the class in the cart.</li> <li>• <i>Stress Inducing</i>: Especially on specific higher level courses, where students are limited and openings are rare. Hinders students' ability to move plans that hinder jobs.</li> </ul>
<p><b>A successful solution would be</b></p>	<ul style="list-style-type: none"> <li>• <i>Automated Notifications</i>: Provides students email, text, or phone calls that notify students regarding new class sections if the student is already enrolled in a section of the same class. Saves time on student's behalf from constantly checking for better sections or professor ratings.</li> <li>• <i>User-Friendly Interface</i>: Provide clean display of course options, with sections, professor, time, and rating. Shows preview of selected courses in a weeks-length calendar, including suggested alternative sections for conflicts. Should be intuitive for even the least technologically skilled student, given this system applies to students in all fields of study.</li> <li>• <i>Easy-management</i>: If issues arise, such as unexpected shutdown or errors in information, issues should be fixed efficiently so as to cause the least</li> </ul>

	inconvenience.
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