

Requirements

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1 Introduction

1.1 Statement of Purpose

A system will be developed that schedules the tutors for a course, more specifically the College Algebra and Trigonometry tutors. The requirements originated from a one-on-one conversation with Dr. Fernando.

1.2 Success Criteria

The system will be considered successful if its use results in the construction of a tutoring schedule for some given course.

2 Functional Requirements

- 2.1. The professor should be able to enter times for tutoring.
- 2.2. The professor should be able to enter in each tutor's personal information.
- 2.3. The professor should be able to clear all data from the system.
- 2.4. The professor, and each tutor, should be able to view the schedule once it is made.
- 2.5. The tutor should be able to submit his availability via an online survey.
- 2.6. The tutor should be able to access his survey through an emailed link.

3 Non-Functional Requirements

- 3.1. The system must store relevant tutor and course information.
- 3.2. The system will send emails with survey links to each tutor for a course.
- 3.3. The system will have a user authentication login.
- 3.4. The system should fill a large percentage of the available shifts.
- 3.5. The system should attempt to schedule shifts in blocks.

4 Glossary

Availability: Times a tutor prefers to work and times a tutor has class. Both of these are within the context of the hours that have been set aside as “tutoring hours.”

Blocks: Sequential chunks of time, e.g., two hours in a row, as opposed to half-hour shifts interspersed throughout the week.

System: The program that does the scheduling.

User authentication login: Situation where a passcode or identifying phrase is required to proceed.