

# Specifications

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## 1 Statement of Purpose

A system will be developed that schedules the tutors for a course, or more specifically the College Algebra and Trigonometry tutors. These specifications have been developed from and based on the previously gathered requirements.

## 2 General Specifications

- 2.1. The professor will be able to enter times for tutoring (2.1).
- 2.2. The professor will be able to enter in each tutor's personal information (2.2).
- 2.3. The professor will have the option to clear all data from the system (2.3).
- 2.4. The tutor will submit his availability via an online survey (2.5).
- 2.5. The tutor will access his survey through an emailed link (2.6).
- 2.6. The system will store information about tutors and courses in a MySQL database (3.1).
- 2.7. The system will send emails with survey links to each tutor for a course (3.2, 2.5, 2.6).
- 2.8. The system will have a user authentication login (3.3).
- 2.9. The system will fill a predetermined percentage of the available shifts (3.4).
- 2.10. The system will schedule shifts in blocks (3.5).
- 2.11. The schedule will be viewable by all parties upon its completion (2.4).

## 3 Development Specifications

- 3.1. The system will have a simple web interface on the sand server.
- 3.2. The system will use MySQL as its database back-end.
- 3.3. The system will have a front-end built using HTML, CSS, PHP, and JavaScript.
- 3.4. The system will run the scheduling algorithm as a Java or Python program.
- 3.5. A successful login will be remembered across multiple pages through the use of sessions.