

Project application description

TA scheduling app

Each year the computer science department hires graduate students as TAs to help teach its courses. Some courses have many lab sections to which the TAs must be assigned. All TAs should have contact information and, if appropriate for their role, office hours. The department secretary and other administrators need to have access to this information to update the schedule of classes, and also during the semester to contact the TA.

Currently, TAs fill out a paper form with their contact information when they are hired. This information is often out of date for TAs who have been at UWM for several years. Each semester the department chair assigns TAs to courses via email. Instructors then email lab section assignments to the department secretary. Finally the department secretary enters lab instructor information into the schedule of classes.

We would like to replace this ad hoc system with an application written in Python. While we first need a command line interface to the application, we will eventually also want a web-based interface. The users of the application will have 3 roles:

- Supervisor/Administrator (department chair)
 - create courses
 - create accounts
 - delete accounts
 - edit accounts
 - send out notifications to users via UWM email
 - access all data in the system
 - assign instructors to courses
 - assign TAs to courses (usually specifying number of labs, or grader status)
 - assign TAs to particular lab sections
- Instructor
 - edit their own contact information (not course assignments)
 - view course assignments
 - view TA assignments (for all TAs)
 - send out notifications to their TAs via UWM email
 - assign their TAs to particular lab sections
 - read public contact information of all users

- TA
 - edit their own contact information (not course assignments)
 - view TA assignments (for all TAs)
 - read public contact information of all users

Public information: the personal phone number or home address of a TA or instructor is private information. The administrator and supervisor need to have access to it, but it is not available to other users.