CS/VT 4990: Advanced Web Development with Django

Assignment: Time Clock

Objectives

In this assignment you will build a multi-user time clock. Building on your experience with forms, multi-user sites, and class-based views introduced in class, you can now build a time clock system.

Requirements

- At a minimum, a good time clock needs these items:
  - Users can create an account on the site
  - Users can log in on the site
  - A user can clock in to a project
  - A user can clock out of a project
  - A user can’t clock in to two projects at a time
  - A user can view a report of his or her time card by date range
  - The admin user can view a report of all time user’s time cards aggregated into one report by date range
  - The main page a user sees after he logs in are the last 10 or so entries on his time card, listed in reverse chronological order (newest item at the top)
  - When clocking out of a time card entry, the user can leave a note about what was done during that time.
  - Clicking on an entry will show more detail about the time card entry, such as the notes that go along with the entry
  - A user should have the ability to edit his or her time card. (what if you forgot to clock out?)

- Tests
  - A non-admin user can’t view another user’s time card

Extra Credit Ideas

- Export a report list into CSV

Hints

- Datetime in Python: https://docs.python.org/2/library/datetime.html