**CS/VT 4990: Advanced Web Development with Django**

**Assignment: Kaizen**

**Objectives**

Kaizen is a Japanese word that means continual improvement, and that’s what we’ll be doing in this assignment: continually improving our Django skills. Build on what you’ve learned with forms in Django and develop a multi-user idea / suggestion submission system. In this lesson you’ll learn:

- How to create an app that deals with multiple users
- Create a user profile
- Implement a user registration system
- Continue using generic class based model forms

Practice good development habits such as defensive programming as you work on this assignment.

**What your program must have**

- A Idea Suggestion object should have:  
  - User who suggested the idea  
  - A title of the idea  
  - A description of the idea  
  - Timestamp of when the idea was submitted  
  - Status of the idea (e.g. New, Denied, In Review, To Do, Doing, Implemented)  
  - A category for the idea  
  - A list of comments on the idea. This is to spur conversations about the idea. Store the date of the comment and the user that made the comment with the text of the comment in the comment object.
- New users can sign up on the site
- Users can suggest a new idea
- All users can view everyone’s ideas, and leave comments on ideas. When listing ideas on the site, highlight your own ideas to make it easier to spot your ideas. Order ideas with the most recent idea at the top.
- Only an administrator user can change the status of the idea / suggestion
- Login is required to view any submitted idea (not publicly accessible)

**Extra Credit Ideas:**

- Email the user that created the idea submission when the status of the idea submission changes.
- Pagination for list pages
- Use the django message framework to send success or failure messages
- Filter and sort the list of ideas by status, category, user, etc.
- Come up with your own ideas to “kaizen” your app.

**Hints:**

- In class, we’ll use the django-userena app for user registration (see [http://docs.djangoproject-userena.org/en/latest/installation.html](http://docs.djangoproject-userena.org/en/latest/installation.html)). However, you can use any registration system you like.