CS/VT 4990: Advanced Web Development with Django

Assignment: Twitter Clone

Objectives

Building on your knowledge of forms, ajax, and multi-user sites, build a working microblog platform (a twitter clone). This assignment also adds in the use of file uploads in forms and ManyToMany objects.

What your program must have

- User authentication
- Major data models:
  - Profile
    - user
    - description / bio
    - profile picture (extra credit)
    - list of profiles I’m following
  - Post
    - Profile (Foreign Key)
    - body (limit to 140 characters)
    - Published Date
- Views needed
  - Login Page
  - Main page to list so many posts from all users
  - Bio Page. Allow the option of users to edit their own bio on the site.
  - View My Posts
  - Write a new post
  - My feed (view my posts and posts of those I’m following)
  - View posts for a particular user (read their posts)
- Tests (things to keep in mind when programming)
  - You can’t edit someone else’s profile
  - Must be signed in to edit your profile
  - Validate that messages are less than or equal to 140 characters
- Extra Credit Ideas
  - @username messaging. Hyperlinks the person’s @username in the body of the post.
  - Convert links in posts to bit.ly or something similar
  - Use profile pictures

Hints:

- Use the django-registration or the userena package to handle signups, logins, forgot passwords, etc.
- Templates to use for django-registration are available here: https://github.com/macdhuibh/django-registration-templates
- Pagination with class based views is EASY: http://stackoverflow.com/questions/5907575/how-do-i-use-pagination-with-django-class-based-generic-listviews