

## CptS 483 Homework #3

In this homework, you have two options for final deliverables.

### Option #1: MVC-based Blog

Using a MVC-based platform of your choice (e.g. Django, Ruby on Rails, ASP.NET MVC), write a basic blogging platform with the following functionality:

#### Authentication System

Users must be able to log into your site. Your site should support at least two user types

1. administrators that can post content, moderate comments, and authenticate users
2. contributors that can post new content

#### Blog Post CRUD

Your site should allow admins to add, edit, and delete blog posts.

#### Commenting CRUD

Your site should allow users to add, edit, and delete comments to blog posts.

#### Page Moderation

Admins should be able to edit and delete all blog comments.

#### Adaptive CSS Layout

You must leverage adaptive CSS layout in order to ensure that your project performs well across a variety of screen resolutions. You may accomplish this using your own code or you may use an off the shelf framework (e.g. Bootstrap).

In addition to the content above, your project must contain instructions for deploying your website. Your project must deploy to any generic version of Linux (I will be using Arch) or Windows 8+.

### Grading

Your project will be graded based on the following criteria:

1. [10] Your project contains deployment instructions written in sufficient detail to allow for deployment on a test machine
2. [20] Your project allows users to create an account
3. [20] Your project supports blog post CRUD operations
4. [20] Your project supports commenting CRUD operations
5. [20] Admins can edit and delete all posts
6. [10] Your page supports an adaptive CSS layout

## Option #2: WordPress Theme

WordPress is [the most popular](#) content management systems on the web. Originally a blogging platform, WordPress has been extended to support online stores, photo galleries, auction sites, real-estate listings, and much more. For those interested in professional front-end development, knowing WordPress is a must. The [WordPress Codex](#) is the starting point for theme development.

Given the enormous scope of what WordPress can handle, I've decided to go light on the requirements. To this end, I provide one of two paths:

### *Path #1: Blog Themes*

As Blogs are what WordPress supports the best, developing a blog theme is probably the easiest entry into WordPress theme development. If you take this route, you must develop two unique themes.

### *Path #2: Specialty Theme*

Rather than develop a theme that works for blogs, you must develop a theme that supports the behavior of two external plugins (e.g. online store + auction). As this will probably require more background research, you only need to create a single theme.

In both cases, you will be evaluated in a manner similar to that of the first homework.

## Due Date

Your assignment must be submitted through the course LMS by Sunday, March 6, 2016.