

1 MVC Frameworks

You are required to choose **Option A** or **Option B** for this programming assignment. Re-write your CS 401 website in a framework of your choice, or create a simple application using a selected web framework. Either way:

- (a) The website must publicly be hosted at your own expense.
- (b) You are required use an open-source framework.
- (c) For full credit, send me an email with the option you chose and a link to the homepage. Your code will reside on your github repo.

2 Option A: Re-write CS 401 Website Project

This obviously only works if you took CS 401. The current state of your code may range from pristine to “wouldn’t touch that steaming pile with a 10 foot pole”. This is your chance to refactor and clean it up. The goal is to make it the front-end look and feel the same, or better (if you fix any bugs along the way), with a completely reorganized back end. Choose an MVC web development framework and re-write your project from the ground up. Learn better code organization conventions, and make your website more maintainable. This also teaches you that you never really escape previous projects.

3 Option B: Random Framework, Random App

- (a) Choose from the following list of web development frameworks:
 - Python Flask
 - Python Django
 - PHP Laravel
 - PHP Symfony
 - PHP CodeIgniter
 - ASP.NET MVC
 - Ruby on Rails
- (b) Choose from the following list of simple website projects with a database backend
 - Twitter clone
 - Generic blog
 - Photo sharing repository
- (c) Implement the website in the chosen framework, and host it publicly!

4 Graduate Credit

Graduated students are additionally required to add HTTPS security to your website.

- (a) **Redirect** If I browse to your website using “http” in the address bar, it must re-direct to “https” using the web server, like Apache, and a redirect directive.
- (b) **Certificates** You may use either self-signed certificates, or real bought-and-paid-for certificates (not recommended because they can be expensive). Certificates are required for typical “https” setups to work correctly.