

CSci 4131: Internet Programming, Spring 2011**Assignment 3: Programming with CGI****Due Date: March 21, 2012****This assignment is to be done either individually OR in a group of up to two students.****Goals:**

In this assignment you will learn about CGI protocol, Perl, and Cookie management using CGI. You will learn how to use JavaScript to change DOM, and form checking before submission.

You will also learn about Perl CGI.pm module.

Problem Statement:

You will create a website for uploading and viewing photos using CGI and Perl. It will support functionality for adding/deleting/viewing photos. Your program will be hosted on a web server to provide photo upload and viewing functionalities.

Functionality:

You are required to support the following functionality.

Photo Folder

The site will support a single folder where all the photos will be uploaded. Your CGI program will create a directory named "MyPhotos".

It will provide functionality to add/delete/view photos.

[F1]. Photo Upload Function

Upload a Photo file:

You should provide the following:

Form elements for specifying

Photo Description (100 characters,) and

Photo file upload (file browsing menu).

You should check whether the file being uploaded is indeed an image. You should use JavaScript to this checking.

You should at least support the following file types: BMP, JPEG, GIF

You should provide one submit button to submit the selected photo file.

[F2] Photo View/Deletion Function

This menu option would support viewing of photos.

It would **display thumbnail** of the photo along with the **slide show functionality** and **photo display functionality** similar that you implemented in **Assignment 2**.

You should provide mechanism to **select a photo for deletion**.

Implement the above functionality using files to store information such as photo descriptions.

Design Guidelines:

1. Please name the directory where you will upload the photos as "MyPhotos".
 - a. You should create this directory in the current working directory.
 - b. In Perl, you can obtain the current working directory through the "getcwd" command.
2. Use JavaScript to ensure that only image files are selected for upload.
 - a. You should at least support the following file types: BMP, JPEG, GIF.
3. For the enabling Slideshow functionality you will need to embed JavaScript in form that will be generated by CGI.

Menus:

Below we present the various menu options that you need to define as part of various forms.

View Menu will be the first menu to be displayed by your program.

ViewMenu: This would provide form elements for the F2 functionality described above.

- Display Photo thumbnails
- Slideshow functionality.
- Photo delete button- to support deletion of one or more photos by selecting a checkbox with the photo in thumbnail view
and then pressing "Delete" button.
- A button to "Refresh View", to be used after uploading or deleting photos.
- An "Upload" button. Clicking it would pop a new window with the Upload menu described below.

Upload Menu: This would provide form elements for the F1 functionality described above.

Resources:

- [CGI Tutorial on CS Web Page](#)
- [CGI PM](#)
- [DOM Reference](#)
- [DOM Interfaces](#)

Submission Instructions:

Include the following files in your submission:

CGI files and HTML files, and a README files.

In a README indicate the following things:

- Your Student Name and ID
- How to run your code.

Submit the tarred directory containing all these files.