

# Homework 3

## HTTP GET Server

Expand your hello world server such that it hosts your website from HW1 with several additional features.

### Objective 1: Serving Files

Expand your server from HW2 to serve the HTML, CSS, and JavaScript files from HW1. You may change these files from what you submitted for HW1, but you must serve external CSS and JavaScript files. The HTML file for your homepage must be hosted at the root path “/” of your server. Use the proper MIME type for each file you serve.

### Objective 2: Serving an Image

Add at least one image to your site and host the image from your server and send it with the proper MIME type.

Do not link to another server for this image.

### Objective 3: First Visit Cookie

Use a cookie to give your users a different experience when they visit your site for the first time. Set a cookie on your server to track the first visit made by a user and serve different content based on whether or not this cookie is set.

Example: Save 2 different versions of your homepage in 2 different html files. Serve one of them when the cookie is not set and set the cookie, serve the other if the cookie is set.

### Objective 4: Query Strings

Host a path that allows the user to send a query string with at least 2 key-value pairs and serve different content based on the values in the query string. You may assume the user has the keys you are expecting.

This content does not have to be part of your site and does not need to be HTML content. For example, you can have a separate path “/queryStringPath” that expects a query string with key name that you specify and serve text/plain that incorporates the values in the query string.

## Submission

To earn credit for this homework you must complete all 3 submissions.

1. Submit all the files of your site to AutoLab in a **zip** file
2. Submit your report to AutoLab as a **txt** file
3. Fill out the [homework self-grading form](#)