

CS 6543 Computer Networks

Spring 2015- Instructor [Dr. Turgay Korkmaz](#)

Homework 2

Check BB Learn for Due date

In this assignment, you will use sockets in C or Java (or any other language) to implement a simplified Anonymous E-Mail Sender (AMS) Server and complete a wireshark lab.

AMS will work as follow:

Suppose you run your AMS server on **host1.cs.utsa.edu portN**

A client can connect to your server by typing <http://host1.cs.utsa.edu:portN> in the address field of his/her favorite web browser and pressing enter.

Then your server gets a "GET / HTTP/1.1" request. Create a HTTP response message in which you will send a simple [ams.html](#) file to the client. Please make sure that you edit/change the following line in ams.html based on your hostname and port number before sending it:

```
<form action="http://host1.cs.utsa.edu:portN" method=post>
```

This ams.html file is actually a simple e-mail interface form. After filling the form, the user clicks Submit. Then your server will get a "POST / HTTP/1.1" request which contains basic e-mail information. Now your server should act like a mail client and try to send the given e-mail to the recipient. Based on the final result, send an appropriate HTTP response to the client.

If needed, you can make other assumptions; but, the core of this assignment is to have a simple web server that can process GET and POST requests, and also acts like a client to send an e-mail using basic SMTP protocol.

When implementing your program, please include extra **printf** statements so that we can follow your protocol/program and how it works.

GRADING for Programming assignment (70 points)

1. (30 points) Implementation (your source code and makefiles)
2. (10 points) Documentation/Comments in your source program
3. (40 points) Execution (give the output of your program for a few cases)

- Please put all your documentation, source, output files under a directory called lastname-hw2, then ZIP this directory as a single file and submit it using BB Learn.
- Please after submission, DO NOT change or delete your soft copies, we might execute them later together for grading....

+ complete hw-02_Wireshark_HTTP_ (30 points)