

CSC 102 ♦ HOW THE INTERNET WORKS  
FINAL PROJECT

**Note:** You can get an error, or you can face a problem at any step below. Then, simply report the problem and discuss the reason and solution.

### **Part One: Web Page Design**

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In this part, you are asked to use your domains and publish a web page with the given requirements below:

Develop a web site, holding below pages and make all pages linked to each other.

1. Home Page (also includes your student ID)
2. Weekly Schedule (a table for 7 days)
3. Contact Form (sending an email to your mail address)
4. About Me (Some Images, at least two of them are side by side)

You can use some fake information, for your privacy, so if you don't want to put your real name, or real weekly schedule, just put some dummy information, but please use your real student ID at the home page.

### **Part Two. Email Tracing**

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- When you have completed your web page, use the contact form to send yourself an email (perhaps you can use the same email for sending and receiving, or you can use different email addresses, both is ok).
- After you have sent an email and received it at your inbox, open the header of the email and find the IP address of the server (take a screen shot at that point).
- Calculate the time spent for sending the email.
- Calculate the size of the email message in bytes.

### **Part Three, IP Packet Tracking**

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Trace route to the server, that you found at part two. List below information:

How many nodes, between you and your server?

What is the ping time between you and your e-mail server?

Does the e-mail server have a web page? If so, what is the address of the web page?

Does the web page in previous step has a certificate? If so, who is the trusted authority for the certificate.

Check the source code of the web server and get the character set.

### **Submissions**

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1. A fully functional web page with the details in part 1, will be ready at due date. Also send a copy of your web page as a zip file, for any last minute problems.
2. A report file (preferably word document) with the information asked at part two and three and also your name, id and URL of your web page.