

CIT 597 – Homework 1

Due – Sep 18, 2014 at 12.00pm

Part 1 – Theory (35 points)

Please do the following problems from the class textbook:

1. Project 2.1 (5 points)
2. Project 2.4 (10 points)
3. Describe why TCP can be considered a “better” protocol for the Transport Layer. Describe why UDP can be considered a “better” protocol for the Transport Layer. (10 points)
4. HTTP is a stateless protocol. Give two options that we could devise to keep track of users and their state. (10 points)

Part 2 – Webpage (25 points)

Create a webpage on your SEAS account. Your page should have at least one image and two links.

Part 3 – Calendar (40 points)

Create a weekly calendar for the third week of September 2014 (9/14-9/20) using a table in HTML.

Put the month and the year in a caption at the top. The columns will be the days of the week and the rows will be timeslots. To make it easier – the timeslots can be 6 hours slots (12am-6am, 6am-12pm, 12pm-6pm, 6pm-12am). For the timeslot, put in your (or an imaginary, funny, made-up) schedule. Change the color of the text for activities related to class-work. Put an appropriate graphic for the boxes for the weekend. Do not use anything beyond a simple text editor to create your html file. Put your calendar in your public_html directory and name it calendar.html.

You do not need to physically turn anything in for Parts 2 and 3. Just make sure to include the link to your pages in your homework submission.

Submission Instructions

We recommend submitting the theory part electronically also. However, you can turn in a physical copy at the start of class, if you prefer. The webpages should be viewable online. Please **do not** print out the html source.

In addition to the theory writeup, you should also submit a text file titled `readme.txt`. This should contain the links to your webpages. You can also describe any problems you experienced, any special features on your webpages, etc. Think of the readme as a combination of instructions for the user and a chance for you to get partial credit.

Please create a folder called YOUR_PENNKEY. Places all your files inside this – theory writeup, the readme.txt file. Zip up this folder. It will thus be called YOUR_PENNKEY.zip. So, e.g., my homework submission would be swapneel.zip. Please submit this zip file via canvas.