**LAB: World Wide Web and Internet**

**Vocabulary (40pts; 4pts per term):** One of the most important aspects of the computer information field is that we can understand each other. To that end, your task is to define the terms below ***in your own words***. You can use your notes, my slides, or [W3Schools](http://www.w3schools.com/), but if any of your definitions from one of those resources, your grade on this assignment will be a zero.

* Internet

A global network of computers communicating using standardized protocols.

* Search Engine

A search engine is an online server that you use to find different webpages related to what you are looking for.

* Domain Name

A *Domain Name* is a simple English-language method of entering an IP address so it is easier to remember where things are.

* Domain Name System (DNS)

A *Domain Name System (DNS)* is a list of domains that correspond to different IP addresses so that when you enter a domain name, you will always be forwarded to the correct IP address.

* IP Address

An IP address is something that every computer on the Internet has to identify themselves from one another, and to connect between eachother.

* Resource Path

A resource path is similar to a location on your hard drive, it's used to locate a resource file in a specific folder on the server.

* HTML

HTML is short for Hyper-Text Markup Language, and HTML is the most common language used to format a webpage on the World Wide Web.

* Uniform Resource Locator (URL)

A URL is used by browsers and servers to help you find the resource you are looking for by providing a method of accessing files that every browser and server uses.

* Server

A server is a computer that recieves requests and sends out data in response to those requests.

* Client

A client is a computer that sends out requests to a server and recieves back a response.

**Short Answer (14pts):** Answer the following questions using 2-3 sentences complete sentences

* What is the purpose of a web browser? (**4pts**)

The purpose of a web browser is to provide a program that can read most common webpage file formats and can access them over HTTP protocol.

* Describe the three services that a server provides: hosting, receiving requests, and serving (**6pts**)

A server provides file hosting, which means it holds files that a person would want to access, it recieves requests that a browser or computer makes for pieces of data and it finds them (the files), and then it serves them back to the computer that asked for them.

* Explain the differences and similarities between a Domain Name and an IP Address. (**4pts**)

A domain name is in plain English and is used to help you locate a server without having to remember it's IP address, however, either an IP address or a domain name can be used to find that server/computer. A domain name just points to an IP address so it's easier to remember. Usually, only a server has a domain name and regular computers do not.

**Testing Your Skills (50pts)**

* For each of the following URLs label the protocol, domain name, and resource location (**25pts; 5pts each**)
* <http://google.com/drive/keep/notes.html>
* Protocol: http://
* Domain name: google.com
* Resource Path: /drive/keep/
* Resource Name: notes.html
* <http://instantwatcher.com/titles/new>
* Protocol: http://
* Domain name: instantwatcher.com
* Resource Path: /titles/new/
* Resource Name: index.html **/** index.php **/** index.htm etc. etc.
* <http://lakecam.tv/videos.html>
* Protocol: http://
* Domain name: lakecam.tv
* Resource Path: /
* Resource Name: videos.html
* <http://www.siteofawesome.com/news/events/dancingcats.html>
* Protocol: http://
* Domain name: [www.siteofawesome.com](http://www.siteofawesome.com/)
* Resource Path: /news/events/
* Resource Name: dancingcats.html
* <http://i.imgur.com/xjCuVrg.png>
* Protocol: http://
* Domain name: i.imgur.com
* Resource Path: /
* Resource Name: xjCuVrg.png
* For each of the URLs in the previous question, provide the IP address of the server, the Resource Path, and the Resource Name that is sent to the server as a request. Use the Domain Name Server I have provided below. (**25pts; 5pts each**)

***Domain Name Server***

|  |  |
| --- | --- |
| **Domain Name** | **IP Address** |
| google.com | 74.125.131.103 |
| instantwatcher.com | 207.192.71.165 |
| lakecam.tv | 65.254.250.109 |
| [www.siteofawesome.com](http://www.siteofawesome.com/) | 34.11.66.222 |
| i.imgur.com | 103.31.7.31 |

* <http://google.com/drive/keep/notes.html>
* IP Address: 74.125.131.103
* Resource Path: /drive/keep/
* Resource Name: notes.html
* <http://instantwatcher.com/titles/new>
* IP Address: 207.192.71.165
* Resource Path: /titles/new/
* Resource Name: index.html **/** index.php **/** index.htm etc. etc.
* <http://lakecam.tv/videos.html>
* IP Address: 65.254.250.109
* Resource Path: /
* Resource Name: videos.html
* <http://www.siteofawesome.com/news/events/dancingcats.html>
* IP Address: 34.11.66.222
* Resource Path: /news/events/
* Resource Name: dancingcats.html
* <http://i.imgur.com/xjCuVrg.png>
* IP Address: 103.31.7.31
* Resource Path: /
* Resource Name: xjCuVrg.png