CSCI 415

Assignment 2

Server Proxy Report

Synopsis:

Our server proxy is a project, implemented in Java, consisting of 3 major classes:

Server: Handles the main function and is responsible for maintaining all socket connections. It does this by multithreading connecting clients so the main server socket remains free to receive additional requests. Once the clientSocket is instantiated, the created thread attempts to resolve the client’s request.

LogIt: A logging class for recording all server interactions

SimpleCache: A caching class that holds a webpage object that is instantiated in the Server class. This allows the Server to return a cached version of a requested webpage instead of spending time attempting to resolve it using the HttpURLConnection class.

Running the project:

In its current build, the best way to run the Server class is to load it into Eclipse and pressing the run button. The server is primed to listen to the localhost at 555, so that is what you specifically need in order to send requests. Once the project is running, open a browser like Firefox or Internet Explorer and navigate the the LAN proxy settings. From there, you can set your connection to localhost with port number 555. At this point, the project should recognize your chosen browser as a connecting client and will be attempting to resolve any requests it sends.