CPS706 – Content Distribution Network Project

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The source code for the Content Distribution Network is written in Java, using built-in libraries (java.io, java.net, java.util). All the connections between the client and DDNS is achieved via UDP. All connections between client and HisCinemaServer and HerCDNServer are achieved via TCP, using HTTP message resemblance. Get requests are sent using HTTP 1.1 format (i.e. GET index.html HTTP/1.1), which are parsed by the servers, and then replied back to the client with the appropriate HTTP 1.1 reply (i.e. 200 OK HTTP/1.1).

To compile and run the source code (On Windows), make sure to have all the files in their directories given, and follow these steps:

1. Open directory where all the .java files are located
2. Open Command Prompt in that directory
3. Compile all the .java files using command: javac file.java
4. Run all the files, making sure that client.java is executed last, using command: java file
5. After client is executed, follow prompts

Since the Content Distribution Network contains multiple servers on different machines, it is mandatory that servers and DDNS are run first before the client application. It is also required that the for a given server or DDNS, the files for it are on the same machine in a sub directory (src/ServerNameFiles/files).