Marking Guide
CPSC 441 – Assignment 2
Total Marks = 100

*Code that does not **compile** and **run** on CPSC Linux servers (e.g., linux.cs.ucalgary.ca) will automatically receive a mark of **0** regardless of the actual implementation and the amount of code submitted. The TAs are unable to evaluate submissions that do not compile and run.*

Requirements

Penalty	Description	Grade
-80	Program does not directly use TCP Sockets, e.g., uses `UrlConneciton` class	
-20	Program includes other concepts or libraries that are not allowed (e.g., URL/URI classes)	
-10	Submission instructions have not been followed	
-10	Program does not have proper code structure and comments	

Comments:

Functionality: `WebServer` Class

Marks	Description	Grade
55	**Basic Functionality: Web server functionality**	

40	• 200 OK – the request is formatted correctly
	    ○ HEAD requests
	        ▪ Status line is formatted properly
	        ▪ Mandatory header lines are included
	        ▪ Header line values are correctly set
	    ○ GET requests
	        ▪ Text object transmitted correctly
	        ▪ Binary object transmitted correctly	

10	• 400 Bad Request
	    ○ Malformed request line
	    ○ Malformed header line	

5	• 404 Not Found ○ Request for non-existing object	
45	**Additional Functionality**	

20	• Proxy server functionality
	    ○ Unknown host name handled correctly: "400 Bad Request"
	    ○ GET request for remote object handled correctly
	        ▪ Properly formatted request
	        ▪ Malformed request	

15	• Handling concurrent GET requests – properly formatted
	    ○ Multi-threading is implemented
	    ○ Multiple objects transmitted concurrently	

10	• Handling range requests – properly formatted • Requested range transmitted correctly • Header lines have correct information	