

UNIVERSITY OF REGINA  
Department of Computer Science

CS 215 – Web & Database Programming  
Fall 2018

**Assignment #1: Web Technology and Website Design Critique**

**Due: Friday September 21, 2018 by 11:55 PM**

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**Question #1**

Draw a diagram of the protocol stack that allows the Web to operate. This stack should include all of the key Internet protocols that are necessary, and depict the hierarchy of the protocols (e.g., high-level protocols that make use of the services of low-level protocols). Protocols that are part of the Internet but not necessary for the Web should be excluded. Use acronyms in the labelling of your diagram, and provide a list of the acronyms with their full names.

**Question #2**

Choose a website that you use on a regular basis. For this website, think carefully about the tasks it allows you to perform, its design, and how usable it is. Choose one specific page on this site, and write a design critique of it. This critique should be organized along three topics discussed about interface design (usability requirements, design principles, and usability). See module 2, topic 5 for more information. The usability assessment may be done with respect to one of the core tasks of the website.

**Grading Scheme**

This assignment will be graded out of 10 marks, based on the following criteria:

- 2 marks: Diagram of the protocols that enable the Web to operate
- 1 mark: List of acronyms and their full names
- 2 marks: Design critique: usability requirements
- 2 mark: Design critique: adherence to design principles.
- 3 marks: Design critique: support for the Five E's of Usability

**Submissions**

Your assignment should be submitted as a single PDF file and uploaded to the assignment submission page on UR Courses. If you draw the diagram by hand, you should scan this and include within the document you are preparing. **Name your file starting with your surname and initial**, in order to help the marker to organize the submissions.

Late submissions will not be accepted. If there are exceptional circumstances that kept you from submitting your assignment on-time, you should consult with your instructor as soon as you are able to do so. See the syllabus for more details on the late policy for this course.

**Grading Rubric**

2 marks: Diagram of the protocols that enable the Web to operate

2/2	you have correctly documented the protocols and their hierarchy
1.5/2	you have documented most of the protocols and their hierarchy, but have made minor errors (missing protocols, extra protocols, incorrect hierarchy)
1/2	you have documented some of the protocols and their hierarchy, but missed some important ones or included extra ones that are not needed for the Web
0.5/2	you have documented a few of the protocols and some of the hierarchy, but have made some major errors (missing key protocols, extra protocols, incorrect hierarchy)
0/2	you have not provided any correct protocols

1 mark: List of acronyms and their full names

1/1	you have listed the acronyms and their full names for all of the required protocols
0.75/1	you have made one error
0.5/1	you have made two to three errors
0.25/1	you have made four to five errors
0/1	you have not provided any correct acronyms or names

2 marks: Design critique: usability requirements

2/2	you have correctly documented the core and less common tasks
1.5/2	you have documented the core and less common tasks, but have made some small errors or omissions
1/2	you have documented just the core tasks or just the less common tasks, but not both; or you have documented both, but made some errors or omissions
0.5/2	you have provided minimal documentation of the tasks; or you have made some significant errors or omissions
0/2	you have not documented the usability requirements

2 mark: Design critique: adherence to design principles.

2/2	you have addressed all four design principles
1.5/2	you have addressed three design principles
1/2	you have addressed two design principles
0.5/2	you have addressed one design principle
0/2	you have not addressed any design principles

3 marks: Design critique: support for the Five E's of Usability

3/3	you have assessed all five E's in relation to the interface support for the task
2/3	you have missed some of the usability criteria
1/3	you have missed most of the usability criteria
0/3	you have not assessed the Five E's of Usability