

APPLIED COMPUTER SCIENCE

ACS-2909-050
Internet Programming

Fall 2016

Assignment 3

Due date: November 21, 2016 11:59 pm

Total marks: 20

Motivation

The goal of this assignment is to make use of Web Storage, the video element and Web Workers

Questions

The answer for each question should be given in a separate set of files labelled Q*.*. Your name and student number should appear in all source documents, but it does not need to be displayed by the browser. Your solutions will be tested using Chrome.

1. Write an application that allows the user to add an item to a shopping list using form inputs. Each item should have a label, and a cost (using form inputs). Items in the shopping list should display in a list below, along with the expected price. Below the list of items, there should be a total for how much all the items would cost. The user should be able to add additional items, remove existing items, and they should be able to close the application and reopen it, without losing any changes. When adding and removing items, the cost and the list should automatically update.

Evaluation: This question is worth **10 marks**.

2. Using Web Workers, make Ajax requests to <http://courses.acs.uwinnipeg.ca/2909-001/assignments/A3Q2.php>. Each 200 status should notify the main page of the data, and the main page should display the message Type is SHAPE with a colour of COLOUR with a background colour of COLOUR. After 20 successful Ajax calls, the worker should stop. In other words, there should be 20 messages displayed on the main page. Also, make sure to run each Ajax call one after another (not simultaneous).

NOTE - SHAPE should be either rectangle or circle, and COLOUR will be a hex value.

Evaluation: This question is worth **10 marks**.

Hand in instructions

Zip all the files into a single archive named `YourStudentID_Ass2.zip`. Submit the zip file to the TA, Matthew Hiebert, at: hiebert-m70@webmail.uwinnipeg.ca. Marks will be deducted for students that do not follow instructions.