ITS 362 – Distributed Application Development

Lab 01 – JavaScript Programming

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January 26, 2022

**Objectives:**

1. To create a client-side application using JavaScript
2. To get familiar with the JavaScript development process
3. To learn how to program and debug in JavaScript
4. To learn to use JavaScript code and events to interact with HTML elements

**Tasks:**

Based upon what we learned, add JavaScript code and events to a grading HTML page so that all the calculations are done properly and correctly. You should be able to enter student scores for each category and then calculate a grade based on the percentage split. The grading criteria for the course are as follows.

|  |  |  |
| --- | --- | --- |
| **Assessment** | **Number of Assessment** | **Max Points per Assessment** |
| Lab assignment | 10 | 25 |
| Quiz | 10 | 10 |
| Exam | 2 | 100 |
| Project | 1 | 100 |
| Extra credit | 1 | 25 |
| Participation | 15 | 5 |

Total earned % points = 30% of lab assignments + 10% of quizzes + 30% of exams + 20% of project + 5% of extra-credit + 10% of participation

The grade is determined using the table below.

|  |  |
| --- | --- |
| **Earned % Points** | **Grade** |
| ≥ 90 | A |
| ≥ 80 but < 90 | B |
| ≥ 70 but < 80 | C |
| ≥ 60 but < 70 | D |
| < 60 | F |

Please pay attention to your **coding style**. At this point, you should have developed a good habit of writing professional type of programming code.

Please do not use any JavaScript frameworks/libraries which have not been covered in the course.

You should have at least 2 separate code files: html, and js. A .css file is not required but is still highly encouraged.

**Deliverables:**

An electronic copy of all your code files and screen shots must be submitted to Brightspace. Please zip everything.

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