Project 1

Due: Monday, April 3rd by 11:59 EDT

# Background

Elementary School teachers need all the help they can get. With the lack of budget and usual supplies, any help in teaching their young students is greatly appreciated. This application will be used by students in either Pre-K or first grade to tell time on a clock.

# Assignment

This is not a digital clock, but a clock that uses hands to tell time. You are to build a JavaScript game out of determining time based on their hands. How you make this game fun, interesting, and how it overall runs is up to you. I would highly suggest that you try this game on other people. As I can tell you, kids are very upfront and will tell you the truth, which can be valuable to many aspects you are being graded on. The application should also ask for the students first and last name so that the teacher can track the students’ progress for that day. Since many students will be using the same program on a single computer, enable the protected ability to display the overall student performance for all students for that day. (Protected meaning that the data is protected by some means so students can’t get to it.)

For this project, you will be using HTML CSS and JavaScript. There will be no other programming language in this. All data items will be handled by JavaScript. Consider this is an application that will be run on one computer once a day and the data collected by the instructor or teacher at the end of the day.

# Grade Breakdown

[Video Presentation](#_Video_Presentation) …….……………….……………….……………….……………….……………….……………… 10%

[Documentation](#_Documentation) ……………….……………….……………….……………….……………….………….……………….15%

[Ease of Use](#_Ease_of_Use) ……………….……………….……………….……………….……………….……………….…………………25%

Attractiveness (no explanation needed) ………………….……….……………….……………….…………..10%

[Code](#_Code) ……………….……………….……………….……………….……………….……………………………………….….20%

[Data Collection/Presentation](#_Data_Collection/Presentation) ……………….……………….……………….……………….……………………....20%

[Thoughtful Add-ons](#_Thoughtful_Add-ons)……………….……………….……………….……………….……………….……………………+10%

# Video Presentation

The video presentation will be a commercial for your application that you have developed. The presentation should go over the finer points in the overall setup of your project rubric. This video should go over the ease-of-use documentation and thoughtful add-ons if there's a requirement for your project. The video needs to be less than 5 minutes have sound and demonstrate your application. When you are submitting the project make sure to give the YouTube link to this video for the instructor to grade.

# Documentation

You must include a documentation file named “README” (with appropriate extension, .docx, .pdf, etc). The file **must** **be editable**. Optionally, a PDF version can be included as well. Your documentation should include **text and screenshots** of your project.

The documentation must contain, **in order**:

1. Introduction of Team or self

a. Names

b. Emails

c. Roles of each member

2. Location of Project

a. How do I (instructor) get to your project

3. Project Description

# Ease of Use

Your project will be graded based on a visual, informational, logical, and mechanical diagnostic examination. Ease of use will be graded by the client. Use a [Website Evaluation Rubric (from Uni. of AZ)](http://www.u.arizona.edu/~awkarlow/files/Rubric.pdf) as a guide. I suggest that you use the “Larry Rule” (coined by Lupoli) and have someone else (aka parent) to try and see how they like the client before you make the final touches.

# Code

Standard coding practices from CMSC 201-341 apply. All code must be original and custom-written. There are many nice “additions” that are easy to download and install (we’ve seen a lot of them), but you don’t learn from it. **IF**, you decide to use aesthetic and/or coding designs from other websites, **make sure you cite them in the documentation and in your commented code**. Failure to do this will result in a zero in this portion of your grade.

How your CSS/JavaScript images were included and organized will be reviewed. All code must be submitted as instructed in the main project documentation. All submitted code must follow the rubric below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Condensed  Conclusion | Very Good | Good | Okay | Less than Okay |
| Code Organization | -Meaningful file/folder/directory usage  -Encapsulation of functionality code utilized  - Very well thought out separation to specific parts of code | -Adequate file/folder/directory usage  -Separation of code into various folders used  - Logical pathways to specific parts of code | -Lack of separation for code’s functionalities  -Ideas were present for coding placement | - Non-meaningful file/folder/directory usage  - Code appears forced together without much care  - No thought process made into separating code based on its functionality |

# Data Collection/Presentation

Data collection and presentation are two portions of this rubric point. Presenting the data does not mean it must be pretty. It should be easy to read for those the application is serving. Please note what audience this data will normally be presented to. Please note that depending on the project, creating tables is the easiest to write, but may not be the easiest to read. Using some type of charts (bar, pie, etc…), if available, would be considered more difficult to code, but easier to read, which is a better form of data presentation.

# Thoughtful Add-ons

The thoughtful add-ons is the wildcard portion of your rubric. This is not a requirement. However, based on your effort and how much the add-ons help your overall application, reasonable points will be added to your overall score. The add-ons should be well-documented in both your documentation and presentation on video. There is a maximum to the amount of points that you can receive for your thoughtful add-ons. (Please reference the rubric on how many points are available.)

# Submitting your project

You should submit the following files within a .zip file:

* proj1.html
* proj1.css
* proj1.js
* password.txt – whatever you used to have the teacher access the data
* video.txt – file with URL link to your video (YouTube)

Starting from the same directory as your .zip file:

cp proj1.zip /afs/umbc.edu/users/s/l/slupoli/pub/cs443/USERNAME/Project1

or

submit cs433\_slupoli proj1.zip (check that this is available)