Developer Test: Frontend

Front-end Development and Design

Why

This project will allow you to get to know some of the tools that we'll be using throughout the year. By the end of this project, we will be able to see your front-end design and development abilities. We will also be doing a review session which will focus on areas of improvement. This test could determine which future projects you can do while at LIVE.

The Project

In this project, you will design a calculator application that can do basic arithmetic (addition, subtraction, multiplication and division) that will be deployed on Github Pages. You have free reign on how you want this calculator to look like and what other functionalities you want to add. However, you must follow all the requirements listed below. As well, you are expected to write your own unique JS code. If I smell a hint of copying from the internet, then damn, good luck not being a LIVE anymore.

Using your GitHub account, create a private repository called **live-fe-test**. Add Alvin Tang as a contributor. This is where you put all the files you will be working on. Good luck!

Requirements

You must incorporate all of these:

- **Jekyll** for organization and static site generation
  - Should assume that multiple parts of a page should be reusable on other pages
- **Github Pages** for hosting
  - Custom domain names are mentioned in the Github Pages section
- **Git** for version control
  - Constant commits with good messages are a must
- **Livestrap** for styling
  - Must use Grid, Buttons, Input, etc...
  - Try to rely on this instead of custom CSS. However, I must be able to also see some custom CSS for certain aspects.

Also...

- Write reasonable HTML in the <head></head> with a thought of SEO
- You must write a well documented README.md file and populate it with some content
- The calculator must be okay with user input and also incorporate traditional calculator buttons

- If the answer turns to 27 after calculation, a button must change to a different colour. It must turn back to its original colour for any other answer
- The calculator must be able to work more than once (could be reloaded with new values)
- Use appropriate tags according to W3C compliance and standards
- Write good comments and when necessary
- The calculator must at least work with one operator minimum (e.g. 5*1 would suffice, 5*4/2 does not need to work)

GitHub Pages

Custom domain names won't be given until you provide your GitHub username.

Timing and Due Date

I expect each developer to complete this project by the next meeting after April 27th. This should take you **at most** 5 hours for you to complete this project.

Understanding These

- HTML5 Syntax and Basics
- CSS3 Syntax and Basics
- Understanding the user (browser compatibility, minify, etc...)
- JavaScript Syntax and DOM
- Bootstrap (Look at components and what they do and what it is)
- Basics of Jekyll
- Markdown