

# Criterion B: Design

GUI Element 1: Program Start: Not doing the intro page as part of the GUI Mockup as that is a copout

## Empirical Formula Solver

Number of Elements:

(Number of Elements Entered Here)

Update Chart Below  
(Add rows)

Symbol	Percents
(Elem.)	Percent
(Elem.)	Percent

Calculate Formula

The user enters the number of elements that are in the Formula being calculated and then enters the element symbol, the percents, and then hits the calculate button.

# Empirical Formula Solver

Symbol	Percents	Divide by Molar Mass	New Values	Divide by lowest value	Final Ratio
O	8.89%	/16	5.56	/5.56	1
H	11.11%	/1	11.11	/5.56	2

[Explanation?](#)

The Final Element is H<sub>2</sub>O

Do another Calculation?

The explanation button will lead to a description of how the calculations are done. The "Do another Calculation" will take the viewer back to the GUI Element 1. As can be seen, the format will be in a table, easily readable by the user.

# Empirical Formula Solver

Number of Elements:

Update Chart Below  
(Add rows)

Symbol	Percents
Of	88.89%
Hm	11.11%

Calculate Formula  
ERROR: ELEMENTS DO NOT EXIST,  
CHECK SYMBOL!!!!!!!

The user will be prompted to redo the symbols or percents to see if it works

# Flow Chart

