**Project Brief**

Our consultants are looking for tool that will allow them to enter probabilities and carry out basic calculations. The program should also log each calculation for later analysis (**No** DB required, just log to a text file).

**The calculator**

The user should be able to enter two valid probabilities (0 to 1 e.g. 0.5 is valid while 1.1 or -0.1 is invalid). The user should be able to choose from the following functions:

1. CombinedWith: P(A)P(B) e.g. 0.5 \* 0.5 = 0.25
2. Either:P(A) + P(B) - P(A)P(B) e.g. 0.5 + 0.5 – 0.5 \* 0.5 = 0.75

**What to build**

1. Use a technology you feel comfortable with (Forms, API, JavaScript, etc.)
2. A way for users to enter two numbers and see a calculated result
3. A log that includes the date, type of calculation, the inputs and the result

**What is required**

1. Maintainable code that is easy to extend
2. The project contains some degree of tests

**What is not required**

1. Security
2. Database