Problem 2: Requirements Document

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1 Requirements

Following are the requirements for the Beta function:

$$\beta(x,y) = \int_0^1 t^{x-1} (1-t)^{y-1} dt$$

- R-1: When the user enters the inputs, the function should check for the inputs as real positive integers only.
- R-2: When the user enters the inputs to the function, the function should evaluate the result as a real number in less than 4 seconds.
- R-3: When the user enters the inputs to the function, the functions should display the result as a real number in less than 4 seconds.

2 Assumptions

There are following assumptions made for the class project for the Beta function:

- A-1: The function will only accept the real positive numbers to limit the scope of the function.
- A-2: The function is assumed to return a result in not more than 4 seconds.