RUBY ON RAILS - CALCULATOR

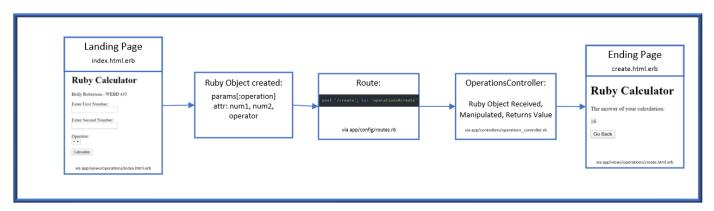
Technical Overview

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Technical Stack:

- Written with Ruby on Rails
- Developed within RubyMine IDE
- Hosted on local environment (localhost:3000)
- Code is available on GitHub
- Name of application: ruby_calculator
- Written by Holly Robertson for WEBD 435 course at Franklin University

Technical Diagram of Application Flow:



Technical Requirements:

- Must handle at least addition, subtraction, division, and multiplication
 - The physical view of these are held within index.html.erb in a .select tag

- The calculations done with these operators are done within the *create* method in the **OperationsController** (app/controllers/operations_controller)
 - Both numbers are converted to an Integer variable (num1, num2)
 - The operator is converted to a **String** variable (**operator**)
 - The value returned from the calculation is stored within a global variable
 - @answer

```
def create

num1 = params[:operation][:num1].to_i
num2 = params[:operation][:num2].to_i
operator = params[:operation][:operator].to_s

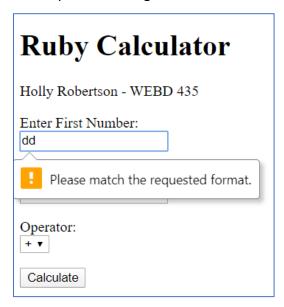
@answer = if operator == '+'
num1 + num2
elsif operator == '-'
num1 - num2
elsif operator == '*'
num1 * num2
else
num1 / num2
else
num1 / num2
end
end
```

• The @answer variable is then called in the create.html.erb file

- Must provide basic form validation on the numbers entered by end-user
 - The validation is held within index.html.erb

- The validation is done with the HTML5 requirement and pattern attributes
- o The attributes are written in Ruby, and then Rails converts it to HTML5
 - :required => true
 - Meaning: This field is required
 - Error: "Please fill out this field" (built within HTML5)

- :pattern => '\d'
 - Meaning: The input entered must be a digit
 - Error: "Please match the requested format" (built within HTML5)
- Examples of errors
 - User inputs a non-digit into field:



User does not input anything into field:

