



OnePageCRM

RUBY ON RAILS CODING TEST

Environment:

- The latest stable version of Ruby and Ruby on Rails
- Any database, MongoDB is preferred

Task description:

- 1) A webpage should be created which will implement a simple calculator consisting of:
 - a) two input fields, called *a* and *b*
 - b) four buttons labeled *sum*, *difference*, *multiplication* and *division*
 - c) one *textarea* element with edit mode disabled (read-only)
- 2) Calculator must operate only on non-negative integer numbers lower than 100. When the form is invalid, the four buttons mentioned above should be disabled.
- 3) When user fills the form and clicks one of the buttons, the form content should be sent to the server with AJAX POST call; and the server response put directly into *textarea* element.
- 4) Server-side code should work in following way:
 - a) in case of invalid data provided "error" text should be returned
 - b) all calculations previously made should be stored in the database; if an operation with given parameters hasn't been made yet, it should be saved; otherwise calculation result should be fetched from DB
 - c) server response should equal to 4 lines of text in following format:
Operation: A
Result: B
ID: C
Count: D, where:
 - i) *A* will be equal to text interpretation of the operation (e.g. in case of sum of numbers 24 and 23 *A* should be equal to "24 + 23"
 - ii) *B* will be equal to calculation result
 - iii) *C* will be an DB document/record ID where given operation data is stored
 - iv) *D* will equal to number of previous calls for given operation
- 5) The form should be inactive during the data calculation on the server side, i.e. the user is not allowed to request another calculation if the previous one is not finished
- 6) Write tests to the apps functionality, using whatever technology you prefer
- 7) Source code of the application above should be sent in form of a ZIP archive file