**Main Goal:**

​Prepare a simple web application of a mini-clinical site, which allows you to submit data which simulates blood test results, analyze the results, and respond whether the results are good or bad accordingly.

**Functionally:**

Should include a single page with two input fields:

* Test Name, String in free text (e.g. "Total HDL Cholesterol")
* Test Result Value, Number (e.g. 40)

Upon submission, the app will:

* Analyze the provided data using the predefined dataset (see "Dataset" below)
* Identify the category of the test by parsing the Test name's free text
* Evaluate the result value based on the test category and the result threshold

The app will respond with:

* Official Test Name, String
* Test Result Evaluation, “Good!”\”Bad!”\”Unknown”

**Dataset:**

The dataset can be found in a public bucket in s3.

* S3 bucket name: s3.helloheart.home.assignment
* File name: bloodTestConfig.json
* Region: US-EAST1
* Can be found here:

<https://s3.amazonaws.com/s3.helloheart.home.assignment/bloodTestConfig.json>

Please Note: This dataset is an initial example and you may add more data to it.

Don't worry about clinical accuracy ;)

**Important implementation notes:**

​1. Allow configurability - Your code should support easy changes to the dataset

1. Expect u​ser input to be within the following character set: 'A-Z', 'a-z', '0-9' and '(),-:/!'
2. Forgive user errors - Analyze the input according to dataset's list of test names but give a little leeway for different word order, punctuation and typos

**Examples:**

1. Input - "Cholesterol - HDL" with the value 39. Output: "HDL Cholesterol" and "Good!"
2. Input - "HDL, Total" with the value 50. Output: "HDL Cholesterol" and "Bad!"
3. Input - "CHOLESTEROL-LDL calc" with the value 99. Output: "LDL Cholesterol" and "Good!"
4. Input - "HM Hemoglobin - A1C" with the value 12. Output: "A1C" and "Bad!"
5. Input - "Triglycerides" with the value 120. Output: "Unknown"

**How to submit the assignment:**

​1. Provide accurate installation instructions - from a clean machine to a working application

1. The code should preferably run on Linux but it's not a must