

Requirements:

A HTTP API needs to be developed with the following routes:

Route: /

Methods: GET

Returns: Status code: 200 and string: *"Hi from test API"*

Route: /calculate/number1/number2

Methods: GET

Takes 2 data inputs *number1* and *number2* as url parameters

Operations: Create a database entry for each new request to this endpoint.

The fields in the database are *number1*, *number2* and *answer* which is empty for now.

Also for every request, a payload: *{ number_1 and number_2, unique_identifier }* are added to a queue. The *unique_identifier* is the document id of the entry stored in database.

Return: The unique identifier for the request (the document id of the entry stored in database)

Route: /get_answer/identifier/

Methods: GET

Returns one of the following:

- *Status code: 404* if the identifier entry does not exist in the database
- *Status code: 200* and message string "Please wait." if the entry exists but the answer isn't calculated yet. The answer calculation is explained in the consumer section below.
- *Status code: 200* and the answer as the message string if the entry exists and the answer has been calculated.

Queue consumer:

A consumer which reads from the queue, and for every payload does the following:

- sleep for 10 seconds,
- calculates the sum of the *number_1 and number_2*
- updates the *answer* field in the corresponding database document.