

# **P15/81749/2017 LIHALAKHA CETRIC OPERATIONS\_API DOCUMENTATION**

## **Introduction**

The operations\_API is an API that calculates the squares and square-roots of the GET request parameters and returns the results as a response in XML format.  
The API is implemented in PHP.

## **Purpose**

The purpose of the API is to calculate the squares and square-roots of the requests parameters and respond to the host with data in XML format.

## **How it works**

- The API receives a GET request with three parameters namely num1,num2,num3 e.g  
[http://localhost/operations\\_api/sq\\_api.php?num1=23&num2=34&num3=46](http://localhost/operations_api/sq_api.php?num1=23&num2=34&num3=46)
- The API responds with data with the following XML format when presented with the correct number of parameters:

```
<results>
  <squares>
    <number1>num1 square</number1>
    <number2>num2 square</number2>
    <number3>num3 square</number3>
  </squares>
  <squareroots>
    <number1>num1 square-root</number1>
    <number2>num2 square-root</number2>
    <number3>num3 square-root</number3>
  </squareroots>
</results>
```

- The API responds with XML with the following format when presented with the wrong parameters
- ```
<results>
  <error>error message</error>
</results>
```
- The API responds to GET requests only
  - Any other request type is responded with an error message