

Unique Email Validator

Problem Statement:

Accept a list of email addresses and return an integer indicating the number of unique email addresses.

Create a web service that accepts http requests and returns responses based on the condition.

Unique email addresses means they will be delivered to the same account using Gmail account matching. Specifically: Gmail will ignore the placement of "." in the username. And it will ignore any portion of the username after a "+".

Examples

test.email@gmail.com, test.email+spam@gmail.com and testemail@gmail.com will all go to the same address, and thus the result should be 1.

test.email@gmail.com and test.email@fetchrewards.com are two different email addresses, and thus the result should be 2

Commands to execute

Curl command:

```
curl --location --request POST 'localhost:8080/emailCount' \  
--header 'Content-Type: application/json' \  
--data-raw '{  
  "userEmailInput": ["test.email@gmail.com", "test.email+spam@gmail.com",  
    "abc@fetchrewards.com"]  
'
```

HTTP code:

POST /emailCount HTTP/1.1

Host: localhost:8080

Content-Type: application/json

```
{  
  "userEmailInput": ["test.email@gmail.com", "test.email+spam@gmail.com",  
    "abc@fetchrewards.com"]  
}
```

Javascript JQuery:

```
var settings = {  
  "url": "localhost:8080/emailCount",  
  "method": "POST",  
  "timeout": 0,  
  "headers": {  
    "Content-Type": "application/json"  
  },  
  "data":  
  JSON.stringify({"userEmailInput":["test.email@gmail.com","test.email+spam@gmail.com","abc@fetchrewards.com"]}),  
};  
$.ajax(settings).done(function (response) {  
  console.log(response);  
});
```

Output:

```
{  
  "uniqueEmailCount": 2  
}
```

Screenshots from Postman:

