# **HackTheBox - breaking grad:**



At the beginning of this challenge we have 2 things:

- 1) Source code
- 2) Instance



# Lets us play a little with the website :

We can see that no matter which student i shall pick up the response will always be the same :



#### Let's review the source code:

We can definitely see that this is a Node.js app based on express.

index.js - we can see that if i add a value that is bigger than 10, and pick a student that is not "dumb" i shall pass, let's try this. (Using Burp)



## Yes we passed! still no flag though - Let's review some more :

#### **DebugHelper.js**

# From looking at this code we can see a well known Vulnerability "prototype pollution attack" - Let's use it!!

```
Response

Pretty Raw \n Actions \times \text{
Pretty Raw Render \n Actions \times \text{

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Pretty Raw Render \n Actions \times \text{

Pretty Raw Render \n Actions \text{

Pretty Raw Render \n Express 2

Content-Type: application/json; charset=\text{

Pretty Raw Render \n Actions \text{

Pretty Raw Pretty \text{

Pretty Raw Render \t
```

### We were able to run a command of our own! Now let's take the flag!

```
HTB(\frac{1}{1} Everything is OK (v12.18.1 == v12.18.1)
```