

Analyse the function below and provide answers to the following questions:

- What do you think is wrong with the code, if anything?

I think the readability of the code could be improved as well as its usability.

- Can you see any potential problems that could lead to exceptions

One problem I see is that in the case that no shopId comes in the request then there is going to be a problem with the

rest of the code as it expects and depends on this value in order to work.

I think the existence of this value should be checked before running the rest of the code.

- How would you refactor this code to:

- Make it easier to read

I think the hardest part to read from the code is the one related to the findOneAndUpdate method because many objects are being passed in as parameters and this makes it harder to understand. Therefore, I think it would be easier to read if these parameters were saved into variables and later passed in as parameters to the findOneAndUpdate function. Also, I think that a few comments could be added on the code, so that future developers that read this function understand what it is trying to do.

- Increase code reusability

One problem I see on the code it has to do with what I mentioned before about the findOneAndUpdate method. I think this part of the code could be more reusable if instead of having the objects passed in as parameters they were saved into variables, so if in the future these attributes were to be used in some other functions there is already a variable storing these values.

- Improve the stability of the system

By checking possible errors that might occur due to a missing value such as the shopId variable which is needed I think code stability can get improved as the system will be less prompt to errors.

- Improve the testability of the code

I think some parts could be separated into different functions to be tested separately.

- How might you use the latest JavaScript features to refactor the code?

Arrow functions could be used to decrease the amount of code.

Also ,all variables declared as var could be changed by using the new let convention to declare variables or const which I think would be the case of the authDomain variable which I believe would stay constant.