Make sure you read the whole document carefully and follow the guidelines in it.

Preface:

Build a RESTful API that can /create/read/update/delete **Product** and **Category** data from a persistence database.

```
Product Model:
       productld: xxx,
                         // Product ID
       productName: xxx,
                                    // Product Name
       qtyPerUnit: xxx,
                                    // Quantity of the Product
                                   // Unit Price of the Product
       unitPrice: xxx,
       unitInStock: xxx.
                                    // Unit in Stock
       discontinued: xxx,
                                    // Boolean (yes/no)
                                    // Category ID
       categoryld: xxx,
Category Model:
       categoryld: xxx,
                                    // Category ID
       categoryName : xxx,
                                    // Category Name
}
```

Functionality:

- The API should follow typical RESTful API design patterns.
- The data should be saved in the DB.
- Category ID in product table should be referenced in the category table.
- Provide proper unit tests.
- Provide proper API documents.
- /create should create the product and category.
- /read should read particular record from the product table (if product has any category then category should be fetched in the response)
- /readAll should read all the records from the product table (if product has any category then category should be fetched in the response)
- /update should update one particular record of the product
- /delete should delete one particular record of the product.

Requirements:

- Write clear documentation on how it's designed and how to run the code.
- Write good in-code comments.
- Write good commit messages.
- An online demo is always welcome.
- Provide proper readme which includes steps to setup the code in any system, API documentation (Postman documentation link is preferred).
- Candidate needs to provide the github link and the candidate has to make his repository private.

Tech stack:

- Use Node.js and any framework.
- Use any DB. NoSQL DB is preferred.

Bonus Points:

- If you are familiar with ES6 standards then it will be a bonus point for you.
- If you can use aggregation for /read query for fetching the data from multiple tables then it would be considered as a bonus point.
- If you follow the good practices of the Node js for coding standard/folder structure then it would be considered as a bonus point.

What We Care About

Feel free to use any open-source library as you see fit, but remember that we are evaluating your coding skills and problem solving skills.

Here's what you should aim for:

- Good use of current Node.js & API design best practices.
- Good testing approach.
- Extensible code.

NOTE: Candidate should not be able for further rounds if we found plagiarism.