Fwd: Technical Task: AlgoDomain Solutions
1 message

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Create RESTfull API using any of the bellow technology

- Java 8 with Spring Boot Or
- Node and ExpressJs

1. **Create Product entity and save below product in database (use any database of your choice).**
2. **You should be able to perform CRUD operations on Product entity to add/update/delete products.**
3. **getProducts method will calculate the final price of each product based on discount and other charges table .**
4. **Optionally add Angular/React UI for adding and removing products within the cart.**

Product ID	Product Name	Product Type	Product Category	Product Price
1001	Lenovo Yoga	Laptop	Electronics	45000
1002	LG Washing Machine	Washing Machine	Home Appliances	25000
1003	HP Pavilion 360	Laptop	Electronics	60000
1004	US Polo Assn	T-Shirt	Clothing	1200
1005	Neelkamal Been Bag	Sofa Set	Furniture	350

Disconts, Tax and Delivery charges (Per Category)

Product Category	Discount	GST	Delivey Charge (Rs)
Electronics	15%	18%	350
Home Appliances	22%	24%	800
Clothing	40%	12%	0
Furniture	10%	18%	300

get Products JSON output as given below.

```
{
  "productId": "1001",
  "name": "Lenovo Yoga",
  "productType": "Laptop",
  "category": "Electronics",
  "basePrice": "45000.00",
  "discount": 6750.00,
  "charges": {
    "gst": "6885.00",
```

```
    "delivery": "350.00"
  },
  "finalPrice": "45485.00"
}
```

Final price is calculated excluding discounts and including GST and Delivery Charges which are different for each product categories.

Important, Please Read Carefully:

- Do Add a README file and explain how your application can be started
- Do check-in the code to github, keep doing frequent check-ins.
- Do submit your task solution within 48 hours which is **24-Feb-2023 03:12 PM**.
- Do inform the HR at least 4 hours prior to submission time with valid reason, if you need more time to complete your test
- Do not over complicate the solution and keep it simple.
- Do add Unit Test cases along with solutions.
- Do use Java 8 feature (when coding in Java) or Arrow functions when using NodeJS
- Do Add Swagger Document for API.
- Do Use any database along with your code, H2 or Mongo in memory would be a good choice.
- Do Not take help from other individuals however, you can use Google, Stack Overflow, YouTube or other online tutorials for making the solution.
- Make sure your code works before sending it for assessment.

Wish you good luck!

Thanks & Regards,