Kyklo - code exercise

Requirements

Rails 4.x application which expose public interface

Public API Interface responds to the following requests:

#1 [GET] models/:model_slug/model_types

#2 [POST] models/:model_slug/model_types_price/:model_type_slug

Authentication method can be chosen by you. If necessaryAPI needs to be secured as server is exposed to the public.

Required Models:

Organization

domain attributes:

:name, :public_name, :type, :pricing_policy

Type can be "Show room", "Service", "Dealer"

Pricing Policy described in the section 'pricing logic'

Model (refers to the Car Model) is linked with an Organization domain attributes:
:name, :model_slug,

ModelType

is linked with an Model domain attributes:

:name, :model_type_slug, :model_type_code, :base_price

Requests:

#1 GET models/:model_slug/model_types returns list of models types for given model, for each of the model types returns 'total_price' calculated based on the 'pricing_policy' logic format of example output

#2 [POST] models/:model_slug/model_types_price/:model_type_slug parameters:

base_price: Integer model_slug: 'serie_3' model_type_slug: '330i'

Returns model_type's data, including calculated total_price based on the organization 'pricing policy' for the given model_type considering base_price passed as a POST parameter.

format of example output:

Based on the Organization pricing policy which can be set as: "Flexible", "Fixed", "Prestige"

Logic for calculating model type price

where margin is a dynamic factor and depends on the type of the pricing policy: for the different types of policies can be describe in the following way:

"Flexible":

```
margin is equal, how many letters 'a' can you find on this site http://reuters.com
divided by 100
total_price = base_price * margin
```

"Fixed"

```
margin is equal, how many words 'status' can you find on site <a href="https://developer.github.com/v3/#http-redirects">https://developer.github.com/v3/#http-redirects</a>
total_price = base_price + margin
```

"Prestige"

```
margin is equal, how many pubDate elements can you find on page <a href="http://www.yourlocalguardian.co.uk/sport/rugby/rss/">http://www.yourlocalguardian.co.uk/sport/rugby/rss/</a>
total_price = base_price + margin
```

While building this application:

- * use git and commit possible often using descriptive commits descriptions
- * use OOP principles
- * use TDD and any test framework which is comfortable for you to build this application
- * use any gem and data storage which you can find useful