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SE-2109

Endterm Project

https://github.com/laqube/endterm-parser

Source code:

```
import requests
import grow in impor
```

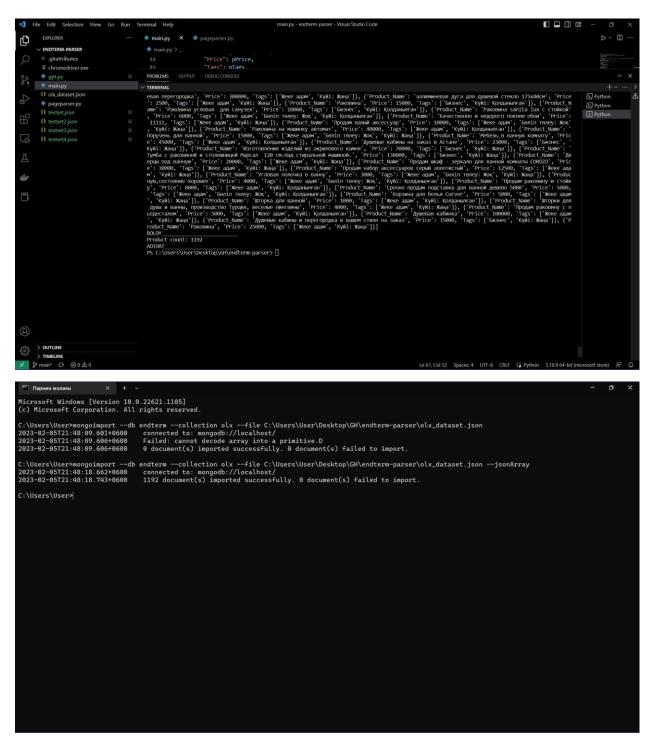
Result dataset.

Dataset holds 1192 records of products published on olx.kz in a category "Furniture for the bathroom". Document about a product holds the next structure:

Name of the product

Price

Tags(in tags, there is information about who is selling the product, its state and sometimes wether if it is possible to pay separately for the product).



I have successfully scrabbed the data and imported the json file into mongodb database, now I can work with it freely.

Analysis of the dataset

There are 378 offers from businesses, and 814 offers from ordinary people:

```
endterm> db.olx.count({ "Tags": "Жеке адам" })
814
endterm> db.olx.count({ "Tags": "Бизнес" })
378
```

557 of products have been previously used, and 635 are new:

```
endterm> db.olx.count({ "Tags": "Күйі: Қолданылған" })
557
endterm> db.olx.count({ "Tags": "Күйі: Жаңа" })
635
```

Now, lets find out how many businesses offer used products and how many ordinary people offer new products:

```
endterm> db.olx.count({Tags: {$all: ["Бизнес", "Күйі: Қолданылған"]}})
31
endterm> db.olx.count({Tags: {$all: ["Жеке адам", "Күйі: Жаңа"]}})
288
```

I am curious about he option of splitting the bill:

```
endterm> db.olx.count({ "Tags": "Бөліп төлеу: Жоқ" })
310
endterm> db.olx.count({ "Tags": "Бөліп төлеу: Бар" })
84
```

And is there any people who offer such option?

How cool is that? Some people even sell used products with option of splittin the bill. But it seems like some of them are businesses trying to look like people. And we can prove it also by repitition of data. They shamelessly publish several offers on the website.

Those are top 5 most expensive offers:

And Those are top 5 most cheapest offers:

And those are two offers without a certain price:

Enough of words, lets see some graphs!

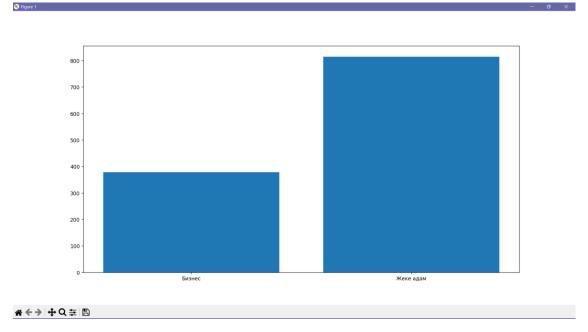


Fig.1 – The count of business offers and people's offers

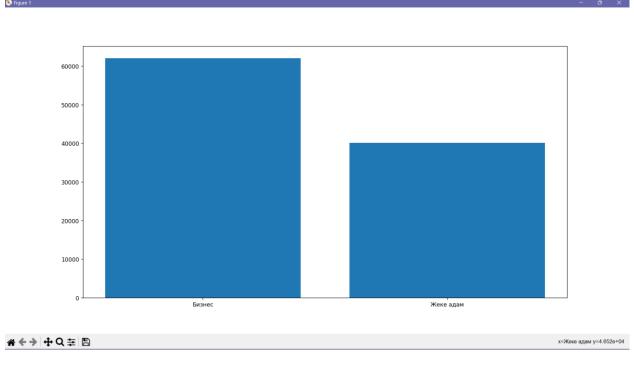


Fig. 2 – Average price for business category and the offers of regular people

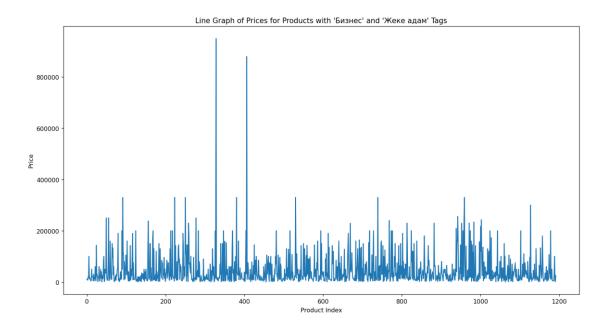


Fig. 3 The dynamic of prices of all products, we can see couple of anomalies

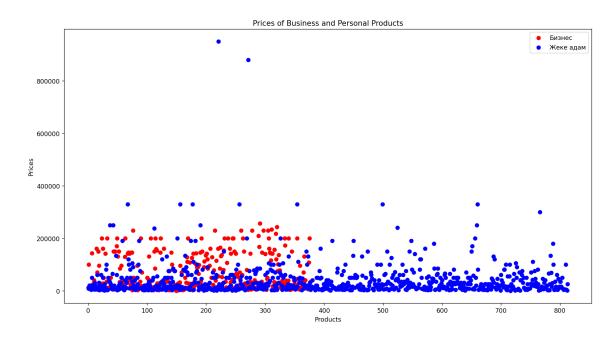


Fig. 4 From this diagram we can see how far can prices go for business offers and personal offers

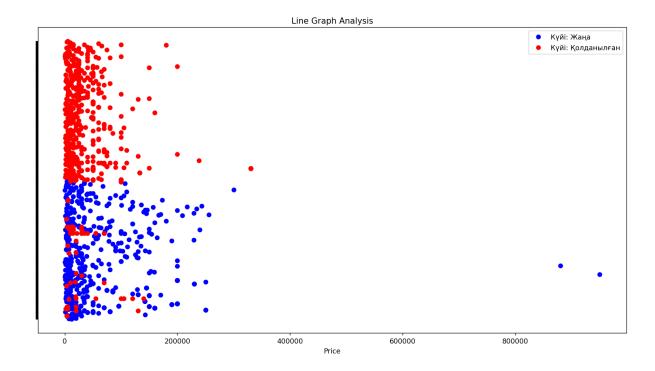


Fig. 5 Prices for New items and Used ones.

CRUD operations in MongoDB

Create/Read

Update

Delete

```
endterm> db.olx.deleteMany({Tags: "Əзіл"})
{ acknowledged: true, deletedCount: 3 }
endterm> db.olx.find({Price: 66700})
endterm>
```