PC market

Being a PC connoisseur

Why I started to get into PCs?

I got a free hand me down PC that I refurbished. Then after getting comfortable I went out and bought my own parts for my own.

What is the common thing to expect when getting into PCs?

For the average consumer buying PC parts is to expensive and complicated that they settle for a console as it requires no little to no learning curve.

Experiences as a Buyer and Seller

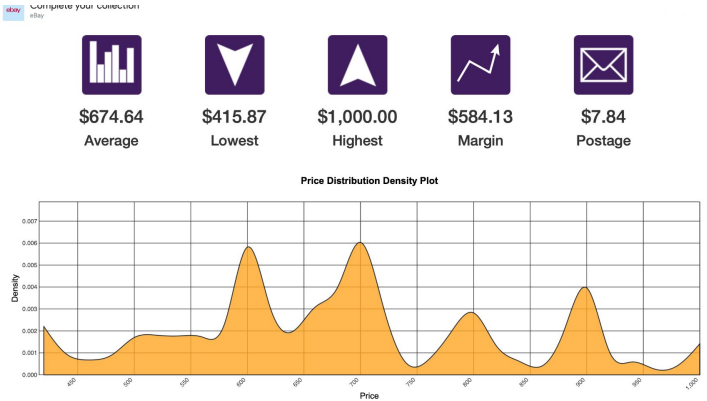
I wanted to build a PC off refurbished parts to save money and to potentially flip for profit.

Issues faced:

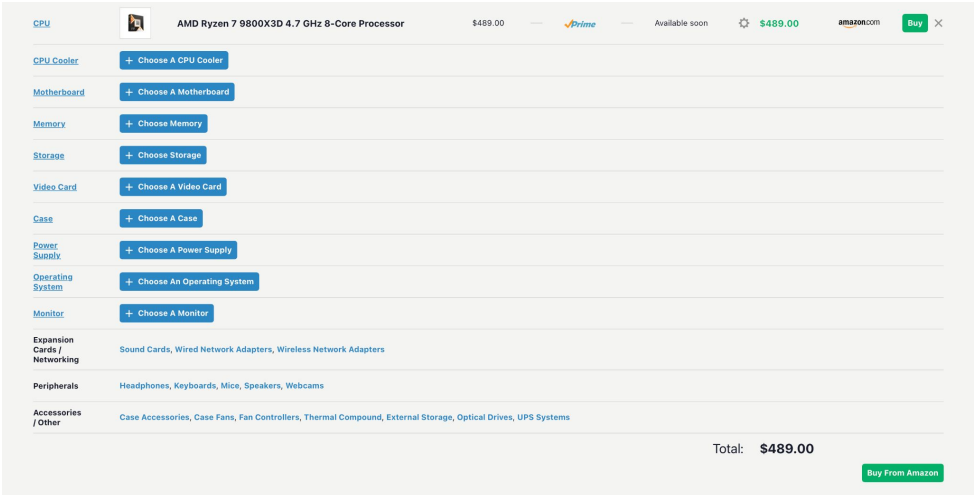
- Overpaying for parts
- Not knowing what to buy for what part
- The difference from current part to latest
- Keeping track of expenses

Possible solutions with existing software

Avg. Price Finder



Data table for keeping track of parts



How can it be improved?

- Combine both average price finder and the data chart table.
- For the program to also be able to tell you what's the newest type for the pc part being bought.
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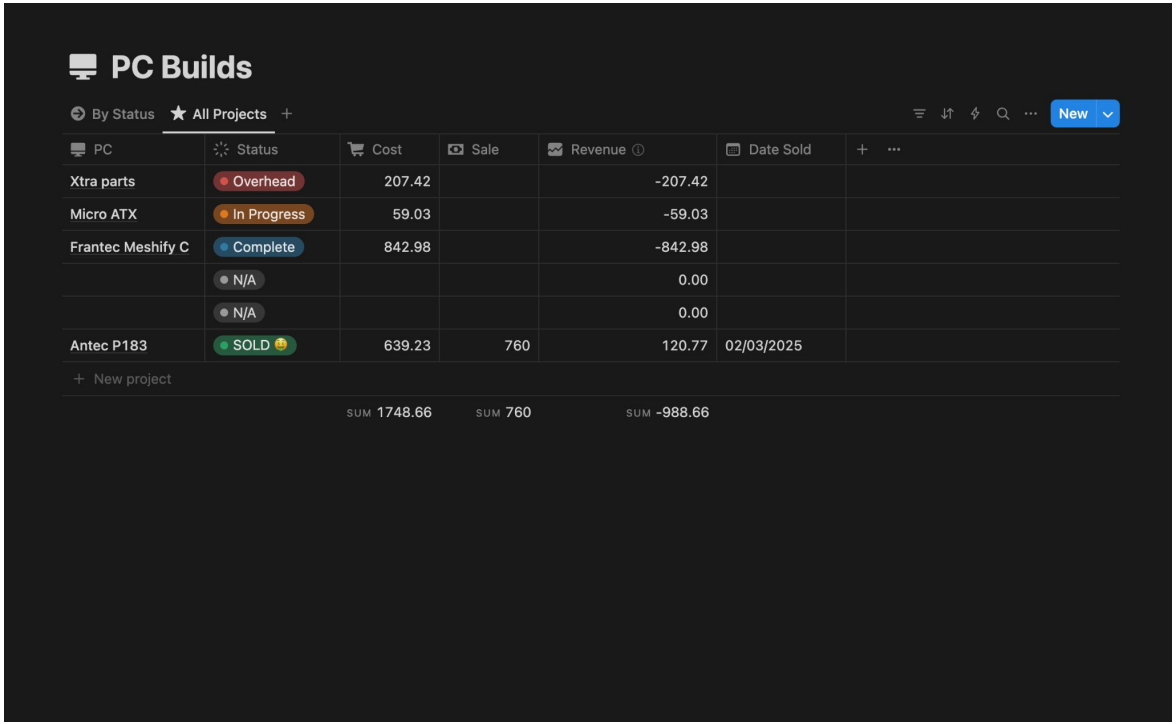
Making it easier for new PC buyers to know what to buy without feeling like they have to learn a bunch of new information.

An example



PC Builds

By Status | All Projects | + | New

PC	Status	Cost	Sale	Revenue	Date Sold
Xtra parts	Overhead	207.42		-207.42	
Micro ATX	In Progress	59.03		-59.03	
Frantec Meshify C	Complete	842.98		-842.98	
	N/A			0.00	
	N/A			0.00	
Antec P183	SOLD	639.23	760	120.77	02/03/2025
+ New project					
		SUM 1748.66	SUM 760	SUM -988.66	

Missing Features:

- Average price finder
- Showing what's the latest for the PC part.

Pseudocode for getting Avg. price using Python

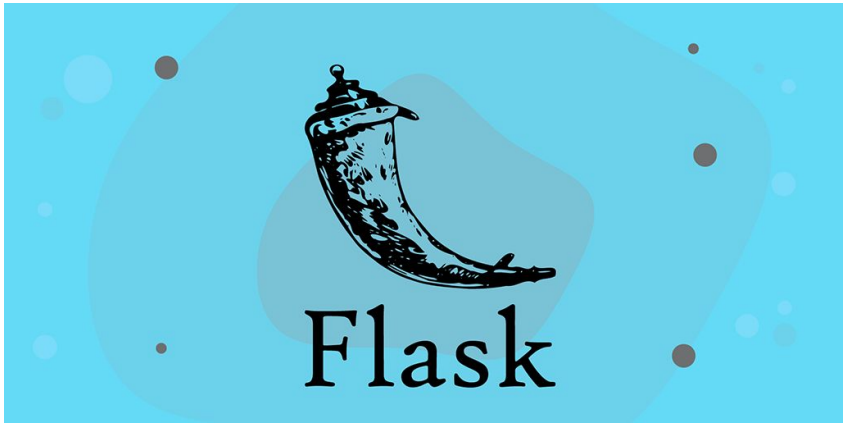
```
Import files that has data on pc parts and their average price online

Global Variables
prompt = 'Enter your PC part: '
price_prompt = 'How much did you get it for? '
user_price = 0
avg_price = 0
difference = 0

FUNCTION Main Function()

   Get USER PC item
   prompt = get_part(prompt, user_price)
   Printing the Output
   calculate(prompt, user_price)

end FUNCTION

FUNCTION calculate(PROMPT, USER_PRICE)

   prompt, avg_price = find_in_files(prompt, avg_price)
   difference = user_price - avg_price

   percentage = calculate the percentage of the increase or decrease of the user_price to the avg_price
   IF the price is over the avg_price
       print(difference, percentage)
       let the user know they're over paying for their item
   end IF
   ELIF the price is under the avg_price
       print(difference, percentage)
       let the user know their making a good choice
   end ELIF

end FUNCTION
```

```
FUNCTIION get_part(prompt, user_price)
   prompt = get_USER_PART(prompt)
   prompt = get_USER_PRICE(prompt)
end FUNCTION

FUNCTION get_USER_PART(prompt)
   prompt = input(prompt)
   WHILE find_in_files(prompt)
       print 'Item not FOUND!!!'
       repeat question
   end WHILE
   RETURN prompt
end FUNCTION

FUNCTION find_in_files(prompt, avg_price)
   Opening the file in reading
   Look for PC part in file imported and the avgerage price it has
   IF item is found THEN
       RETURN prompt , avg_price
   end IF
   ELIF the item is not found THEN
       Print the ERROR
       RETURN false
   end ELIF
end FUNCTION

FUNCTION get_USER_PRICE(prompt)
   WHILE true DO
       TRY
           prompt = float(input(prompt))
           RETURN prompt
       end TRY
       EXCEPT ValueError
           print 'NOT Readable : Must be a valid Number'
       end EXCEPT
   end WHILE
end FUNCTION
```

How can this be Achieved?

Having a front-end Developer to design the UI with the new added features and also in the form of a table

Back-end developers for grabbing the data for the newest parts and the average price for the pc parts. This would need maintenance to update the newest pc parts and average price as the landscape of technology is always growing.



Further questions to explore

How do you combine front-end and back-end programming?

How do you use servers run your program and for it to be constantly updated?

Sources

Data table shown in slide 4

https://pcpartpicker.com/list/

Graph chart in slide 4

https://averagefinder.com/averageFinder?Search=Nvidia%20rtx%204070

Software used to make example in slide 6

https://www.notion.com/