

scraping Udemy courses and coupons that are free

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i will do it in 2 steps

first step : scraping all courses names, links, coupons found after the links and save them in .csv file for easy visualization

```

main.py > ...
1  import requests
2  from bs4 import BeautifulSoup
3  import re
4  import csv
5
6  # Step 1: Fetch the page content
7  url = 'https://yofreesamples.com/courses/free-discounted-udemy-courses-list/'
8  response = requests.get(url)
9  if response.status_code == 200:
10     soup = BeautifulSoup(response.text, 'html.parser')
11
12     # Open a CSV file to save the extracted data
13     with open('udemy_courses.csv', mode='w', newline='', encoding='utf-8') as file:
14         writer = csv.writer(file)
15
16         # Write the header row
17         writer.writerow(['Course Name', 'Course URL', 'Coupon Code'])
18
19         # Step 2: Find all course containers with the specified class
20         courses = soup.find_all('h4', class_='wp-block-heading')
21
22         # Step 3: Extract name, URL, and coupon code
23         for course in courses:
24             # Extract course name
25             course_name = course.get_text(strip=True)
26
27             # Extract link
28             link_tag = course.find('a', class_='external_link_title')
29             if link_tag and 'href' in link_tag.attrs:
30                 course_url = link_tag['href']
31
32                 # Extract coupon code from the URL
33                 coupon_code_match = re.search(r'couponCode=([A-Z0-9]+)', course_url)
34                 coupon_code = coupon_code_match.group(1) if coupon_code_match else 'N/A'
35
36                 # Write the extracted information to the CSV file
37                 writer.writerow([course_name, course_url, coupon_code])
38
39         print("Data saved to udemy_courses.csv")
40     else:
41         print(f"Failed to retrieve page. Status code: {response.status_code}")
42

```

as an example for the output today :

	A	B	C
1	Course Name	Course URL	Coupon Code
2	Mastering Conversion	https://www.udemy.com/course/mastering-conversion/	93646E3ECD40BC50
3	AI for All – Getting st	https://www.udemy.com/course/ai-for-all-getting-started/	59F556FB02B51363
4	CapCut Mastery: From	https://www.udemy.com/course/capcut-mastery-from-zero-to-hero/	359E682E0BA791B7
5	RPA Project: Gatheri	https://www.udemy.com/course/rpa-project-gathering-data/	51EE27250FFB0622
6	RPA Project: Proces	https://www.udemy.com/course/rpa-project-processing-data/	C7C2C030BF338930
7	RPA Project: Mappin	https://www.udemy.com/course/rpa-project-mapping-data/	45FDC2884DBF2FF9
8	ML for Business Man	https://www.udemy.com/course/ml-for-business-managers/	FREENOV24
9	Artificial Intelligence	https://www.udemy.com/course/artificial-intelligence/	5B2E4404D8D9FD12
10	Artificial Intelligence	https://www.udemy.com/course/artificial-intelligence/	FE3ECCD115D1DE8
11	Entrepreneurship and	https://www.udemy.com/course/entrepreneurship-and-business/	FF387060163821E3
12	GIS Software & Appl	https://www.udemy.com/course/gis-software-and-applications/	0E6AA3A67F02EFB0
13	Medical Robotics Co	https://www.udemy.com/course/medical-robotics-course/	1D7550B8092D8F3D
14	Solar Cell Technolo	https://www.udemy.com/course/solar-cell-technology/	F9BA4A50B06009F9
15	Introduction to Finan	https://www.udemy.com/course/introduction-to-finance/	INTROFINPRSER010
16	Vigilant Leader: Lea	https://www.udemy.com/course/vigilant-leader-leadership/	7E08146CAFDD2288
17	Professional Certifica	https://www.udemy.com/course/professional-certification/	B56340B4F4134F78
18	Professional Certifica	https://www.udemy.com/course/professional-certification/	F8ECDB1EBE7212B
19	Diploma: Human Res	https://www.udemy.com/course/diploma-human-resources/	7A20123E25D23B63
20	Professional Certifica	https://www.udemy.com/course/professional-certification/	0326C7EF3B7DBEC
21	Sales Operations the	https://www.udemy.com/course/sales-operations-theory/	CC98AE8C5AF93E9
22	Accelerate Your Lea	https://www.udemy.com/course/accelerate-your-leadership/	091278F74747C2C5
23	Time Management A	https://www.udemy.com/course/time-management-a-course/	CB7DA4DB5C8D64E
24	Developing successf	https://www.udemy.com/course/developing-successful-leaders/	DEVSUCPROFREL10
25	Ultimate Guide to Ca	https://www.udemy.com/course/ultimate-guide-to-career/	810A45B15A011BC6
26	Medical and Cosmet	https://www.udemy.com/course/medical-and-cosmetology/	ICANVA
27	Professional Certifica	https://www.udemy.com/course/professional-certification/	A06D80C9F1FD7958
28	Advanced Project M	https://www.udemy.com/course/advanced-project-management/	0851823A5F191BD3

from this step i created a new GUI using tkinter that do the following

first imports i need

```
import tkinter as tk
from tkinter import messagebox
from tkinter import ttk
import csv
import random
import re
from selenium import webdriver
import time
import logging
```

second describing the used functions

setup_logging()

this function setup logging to file named transactions.log that contain
gmail logged in , url and timestamp that he logged in

```
# Set up logging to log all transactions
def setup_logging():
    logging.basicConfig(
        filename='transactions.log',
        level=logging.INFO,
        format='%(asctime)s - %(message)s',
        filemode='a'
    )
```

here is an example of transactions.log file

```
> idea
> .venv
audit.csv
chromedriver.exe
LICENSE.chromedriver
testing.py
transactions.log
udeemy_courses.csv
```

```
1 2024-11-13 21:54:53,043 - Email: ali@gmail.com, Course: Mastering Conversion Rate Optimization CRO Mastery, URL: https://www.udemy.com/course/mastering-conversion-rate-opt
2 2024-11-13 22:01:32,435 - Email: 212ali@gmail.com, Course: Professional Certificate in SMM Social Media Marketing, URL: https://www.udemy.com/course/professional-certific
3
```

this function i use to select a random course and go to the url of it but i didnt use it as i made a combo box contain all urls for all courses

```
# Function to read data from the CSV file and choose a random course
def select_random_course():
    try:
        with open('udemy_courses.csv', mode='r', encoding='utf-8') as file:
            reader = csv.DictReader(file)
            courses = list(reader)
            if courses:
                return random.choice(courses)
            else:
                messagebox.showerror("Error", "No courses found in udeemy_courses.csv.")
                return None
    except FileNotFoundError:
        messagebox.showerror("Error", "The file 'udemy_courses.csv' was not found.")
        return None
```

save_selection() : this function that saves email, URL on the audit.csv file

```
# Function to save selected course with email to a new CSV file
def save_selection(email, course_name, course_url):
    try:
        with open('audit.csv', mode='a', newline='', encoding='utf-8') as file:
            writer = csv.writer(file)
            writer.writerow([email, course_name, course_url]) # Save email, course name, and URL
        messagebox.showinfo("Success", f"Course saved for {email}")
        # Log the transaction in the log file
        log_transaction(email, course_name, course_url)
    except Exception as e:
        messagebox.showerror("Error", f"Error saving data: {e}")
```

as shown here in audit.csv file it saves the gmail trying to enter the url in the database

```
1 212ali@gmail.com,Professional Certificate in SMM Social Media Marketing,https://www.udemy.com/course/professional-certificate-in-smm-social-media-marketing/?couponCode=A06D88C9F1FD79587169
2
```

now log the transactions to log file early created

then open the link in google chrom that you can apply or add to cart

```

# Log the transaction in the log file
def log_transaction(email, course_name, course_url):
    logging.info(f"Email: {email}, Course: {course_name}, URL: {course_url}")

# Function to open the course link using Selenium
def open_course_link(url):
    driver = webdriver.Chrome() # Ensure ChromeDriver is in your PATH or provide its path here
    driver.get(url) # Just open the URL without clicking anything
    time.sleep(20) # Wait for a few seconds to ensure the page loads fully

    driver.quit() # Close the browser after opening the link

```

function `update_combobox()` : that gets all urls in the .csv file for the next step to choose between them

```

# Function to update the combo box with the available course names
def update_combobox():
    try:
        with open('udemy_courses.csv', mode='r', encoding='utf-8') as file:
            reader = csv.DictReader(file)
            courses = list(reader)
            course_names = [course['Course Name'] for course in courses]
            url_mapping = {course['Course Name']: course['Course URL'] for course in courses}
            url_combobox['values'] = course_names # Populate the combobox with course names
            if course_names:
                url_combobox.set(course_names[0]) # Set the default value of the combobox
            else:
                messagebox.showerror("Error", "No course names found in udemy_courses.csv.")
            return url_mapping
    except FileNotFoundError:
        messagebox.showerror("Error", "The file 'udemy_courses.csv' was not found.")
        return {}

```

now open the course link i chooses

also i add some error handling as if you typed an email that not end with @gmail.com it will not execute

```

# Button function to process the email, validate, and open the course link
def process_email():
    email = email_entry.get().strip()
    if not re.match(r'^[\w\.-]+@gmail\.com$', email):
        messagebox.showerror("Invalid Email", "Please enter a valid Gmail address ending with @gmail.com.")
        return

    # Save the Gmail address when validated
    global user_email
    user_email = email

    selected_course_name = url_combobox.get() # Get the selected course name from the combobox
    if not selected_course_name:
        messagebox.showerror("Error", "Please select a valid course.")
        return

    # Find the course with the selected name
    course_url = url_mapping.get(selected_course_name)
    if not course_url:
        messagebox.showerror("Error", "Could not find the selected course.")
        return

    # Open the course link without clicking anything
    open_course_link(course_url)

    # Save the selected course along with the email and course URL to the CSV file
    save_selection(user_email, selected_course_name, course_url)

```

setting up gui

note: ChatGPT helped a lot in optimization and good visualization

```

# Setting up the Tkinter GUI
root = tk.Tk()
root.title("Udemy Course Selector")
root.geometry("500x350")
root.config(bg="#f0f0f0") # Light gray background

# Adding a title label with a larger font
title_label = tk.Label(root, text="Udemy Course Selector", font=("Helvetica", 18, "bold"), bg="#f0f0f0")
title_label.pack(pady=20)

# Frame for better layout management
frame = tk.Frame(root, bg="#f0f0f0")
frame.pack(pady=20)

# Label and entry for email input with custom styling
email_label = tk.Label(frame, text="Enter your Gmail address:", font=("Helvetica", 12), bg="#f0f0f0")
email_label.grid(row=0, column=0, padx=10, pady=10)

email_entry = tk.Entry(frame, width=30, font=("Helvetica", 12), bd=2)
email_entry.grid(row=0, column=1, padx=10, pady=10)

# Label for combobox
url_label = tk.Label(frame, text="Select a course:", font=("Helvetica", 12), bg="#f0f0f0")
url_label.grid(row=1, column=0, padx=10, pady=10)

# Combobox for selecting a course name
url_combobox = ttk.Combobox(frame, width=30, font=("Helvetica", 12))
url_combobox.grid(row=1, column=1, padx=10, pady=10)

# Button to submit email and select a course with a hover effect
def on_enter(event):
    submit_button.config(bg="#4CAF50")

```

Setting up the buttons

```

# Button to submit email and select a course with a hover effect
def on_enter(event):
    submit_button.config(bg="#4CAF50")

def on_leave(event):
    submit_button.config(bg="#45a049")

submit_button = tk.Button(root, text="Select Course", font=("Helvetica", 14), bg="#45a049", fg="white", command=process_email, relief="flat", height=2, width=20)
submit_button.pack(pady=20)
submit_button.bind("<Enter>", on_enter)
submit_button.bind("<Leave>", on_leave)

# Footer Label for additional information or instructions
footer_label = tk.Label(root, text="Powered by Udemy Course Selector | Made with Tkinter", font=("Helvetica", 8), bg="#f0f0f0")
footer_label.pack(side="bottom", pady=10)

# Update the combobox with the course names when the program starts
url_mapping = update_combobox()

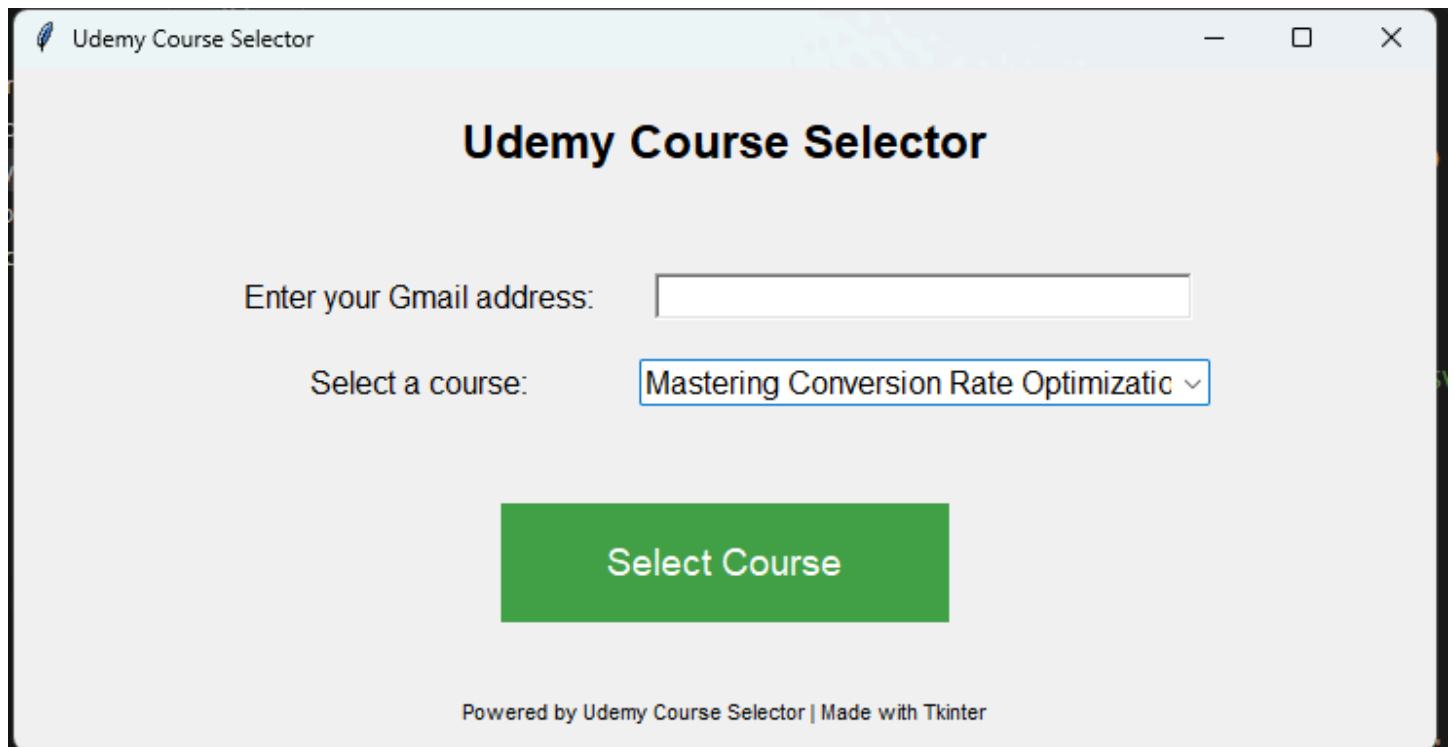
# Initialize logging at the start
setup_logging()

# Keep the window open until the user manually closes it
root.mainloop()

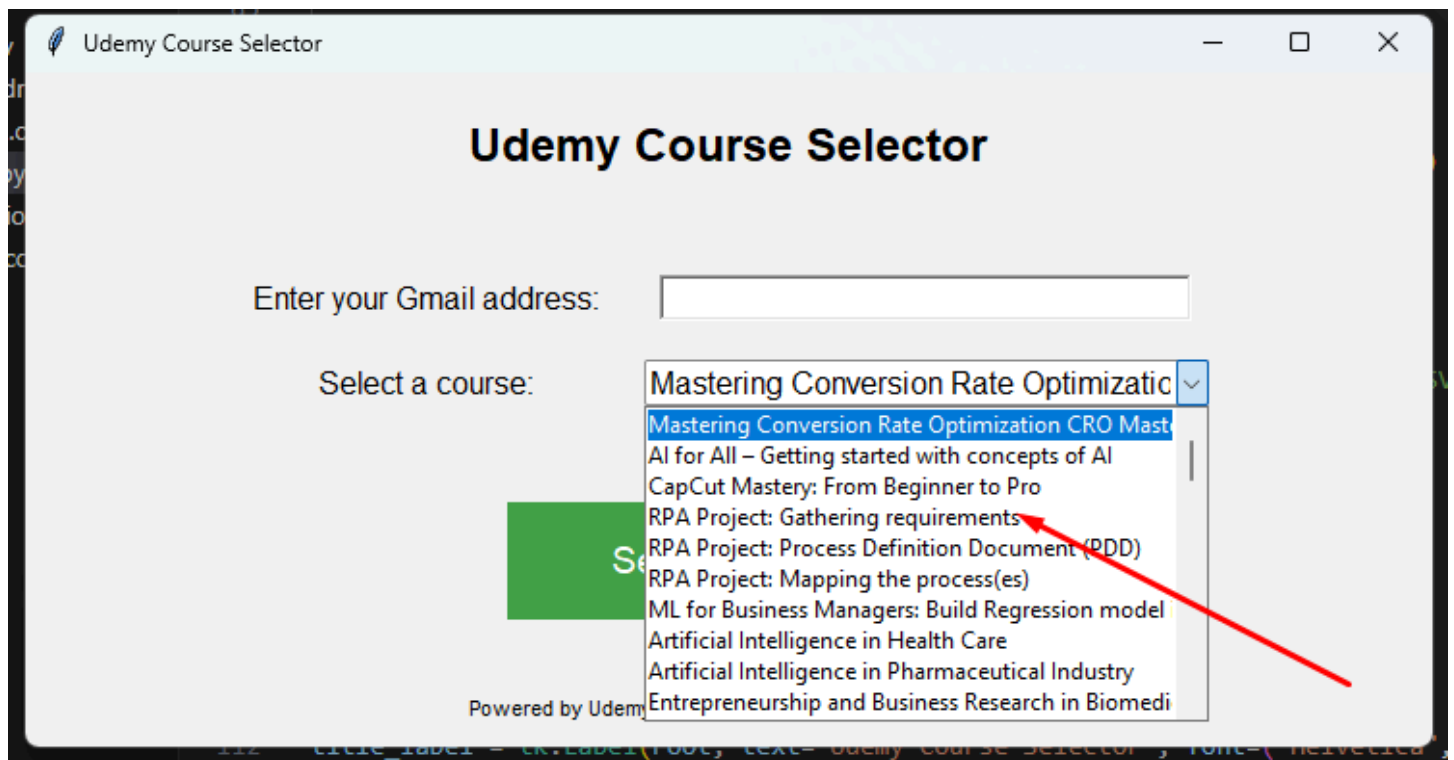
```

Live action for the GUI

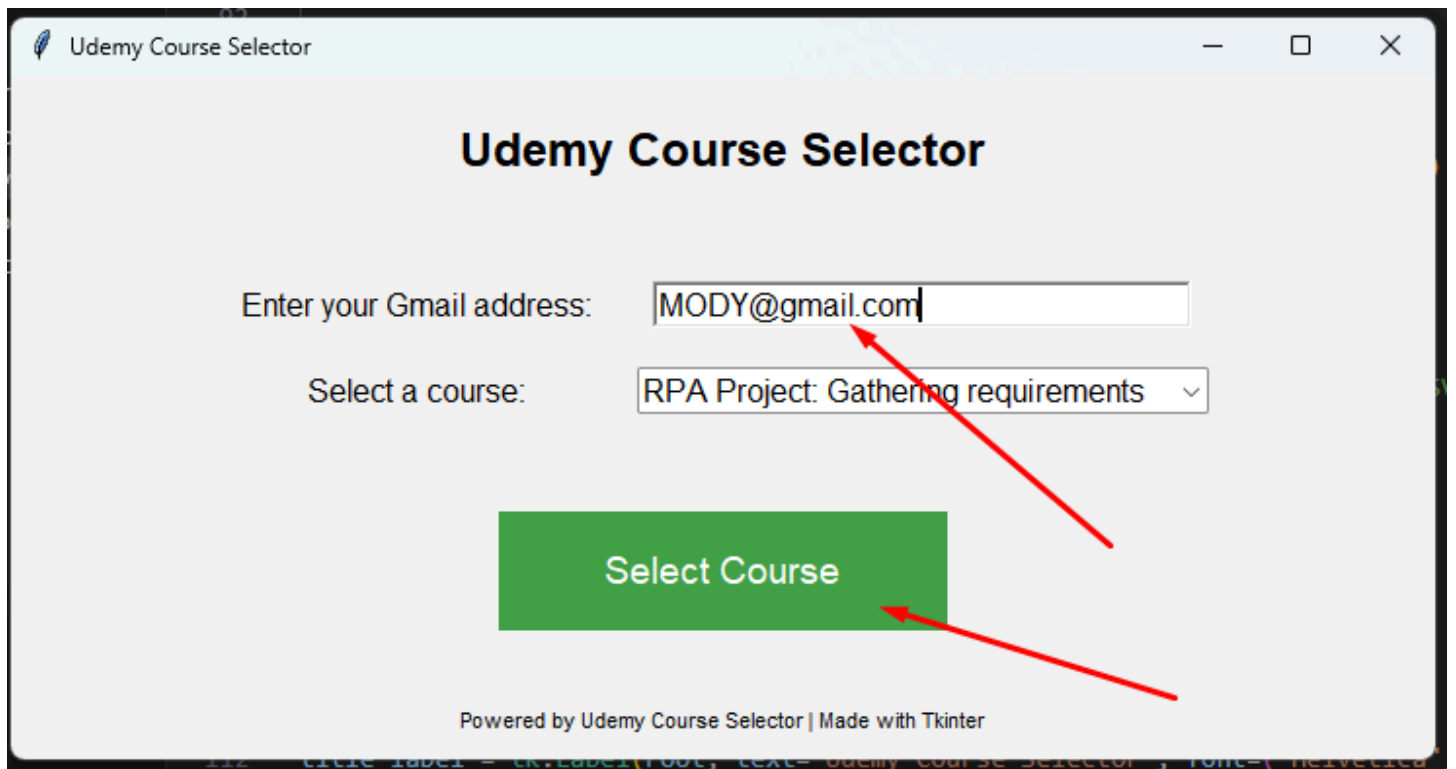
here is a The GUI



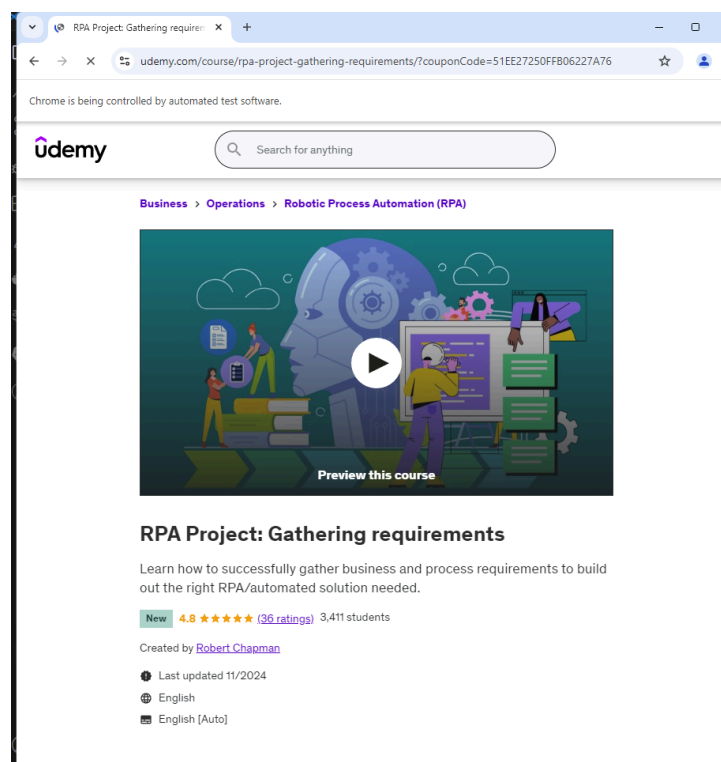
from this combo box i choose between courses i scrapped



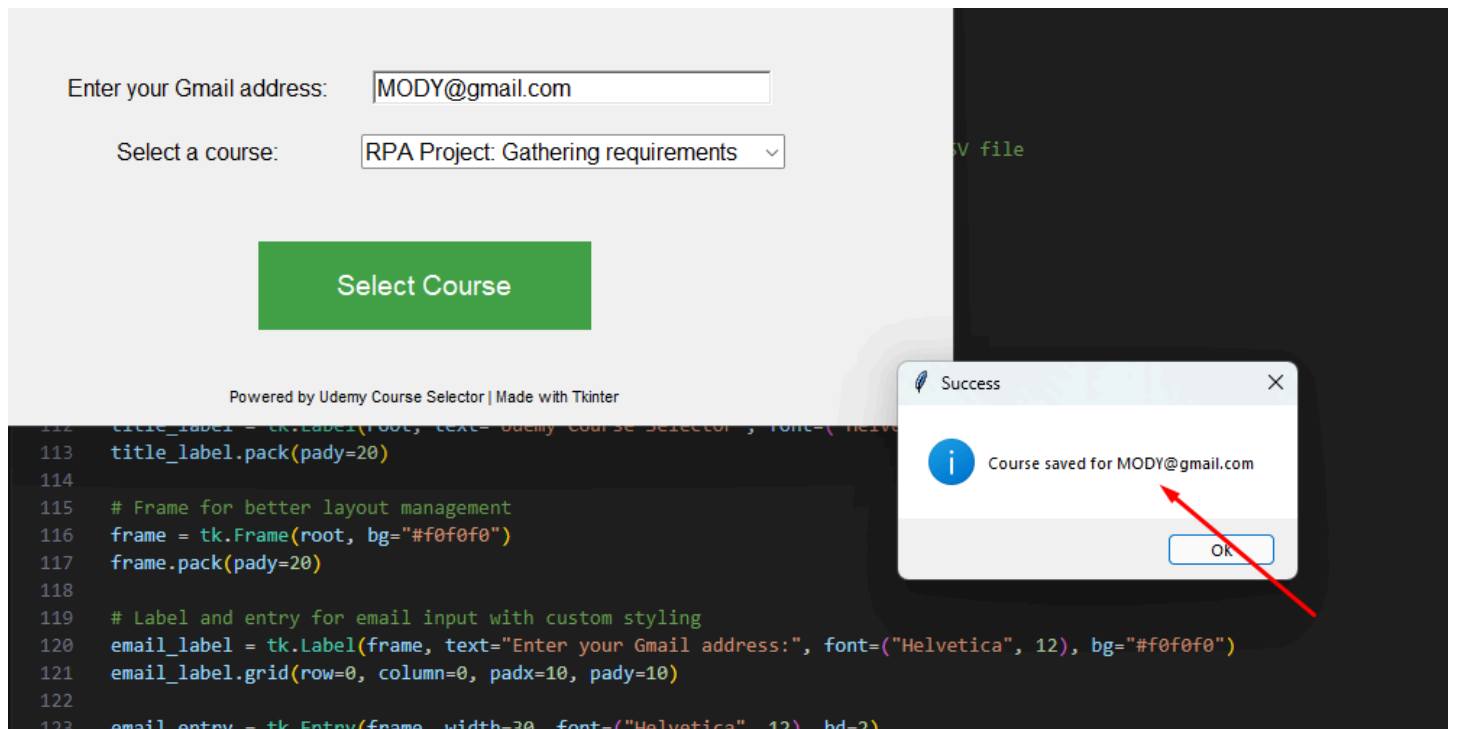
add my email here



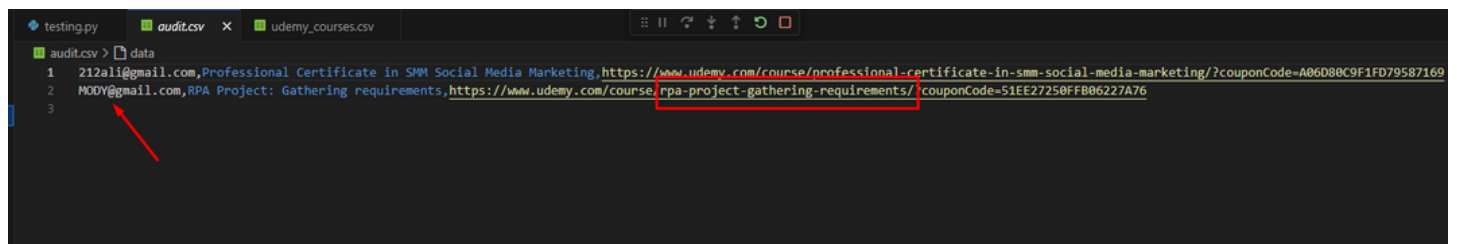
here it enters the course note that : i chooses rpa course in combo and it enters it
now i can add interactive like add it to cart but i didn't as cloud fare get me out



now the gmail added to the audit.csv

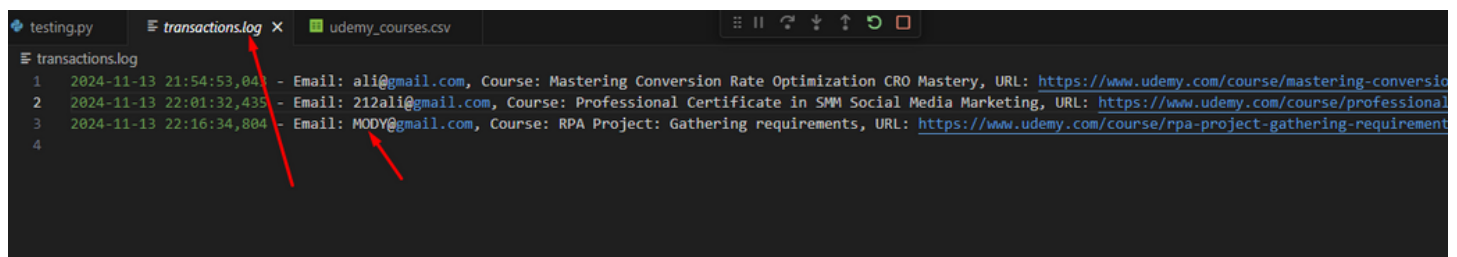


clear



also transactions.log

note only 1 transaction added as only this GUI enters the URL but you do the other work



error handling as when u forget @gmail.com it gives you an error

Udemy Course Selector

Enter your Gmail address:

Select a course:

Select Course


Powered by Udemy Course Selector | Made with Tkinter

Invalid Email



Please enter a valid Gmail address ending with @gmail.com.

OK

[google drive link :](#)  udemy_scraper - Google Drive