

Bonus Task : Bypassing Amazon Captcha

Summary :

In this task I am going to take the screenshot of the amazon captcha webpage and crop the webpage to get the png image of the captcha field . I am cropping the image using pillow library and processing the characters in png file using pytesseract library. Then script send the extracted text to the captcha web page.

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onusiask > BypassCaptcha.py > ...
1  from PIL import Image
2  from selenium import webdriver
3  from PIL import Image, ImageFilter
4  import pytesseract
5  from selenium.webdriver.common.by import By
6
7  pytesseract.pytesseract.tesseract_cmd = r'C:\\Program Files\\Tesseract-OCR\\tes
8
9  #defining the chromedriver
10 PATH="C:\\Program Files (x86)\\chromedriver.exe"
11 driver = webdriver.Chrome(PATH)
12 #loading the url
13 driver.get("https://www.amazon.com/errors/validateCaptcha")
14
15
16
17
18 # function to get the captcha
19 def get_captcha(driver, element, path):
20
21     size = element.size
22     # saves screenshot of entire page
23     driver.save_screenshot(path)
24     # uses PIL library to open image in memory
25     image = Image.open(path)
26     left = 450
27     top = 302+67
28     right = 410 + size['width'] + 200
29     bottom = 302 + size['height'] + 90
30     image = image.crop((left, top, right, bottom)) # defines crop points
31     image.save(path, 'png') # saves new cropped image
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47
48     captcha = pytesseract.image_to_string(image)
49     |
50     print(captcha)
51     return captcha
52
53
54 img = driver.find_element(By.XPATH, "//div[@class='a-row a-text-center']/img")
55 captcha=get_captcha(driver, img, "captcha.png")
56 #sending the extracted text to the captcha webpage
57 fillcaptcha=driver.find_element(By.XPATH, "//input[@id='captchacharacters']")
58 fillcaptcha.send_keys(captcha)
59
60 driver.quit()

```

Sometime character recognition wrongly extacted the string due to complaxity of captcha

