import csv

import time

from selenium import webdriver

url = 'https://binged.it/2BjpS67'

browser = webdriver.Chrome()

def grabAndSave():

browser.get(url)

time.sleep(3)

# Selects route 1 (unique) and retrieves route info

nav = browser.find\_element\_by\_xpath("//\*[@id='directionsPanelRoot']/div[2]/ul/li[1]/a/table/tr/td[2]/div/table[1]/tr/td[1]/p[4]")

data = (nav.text).splitlines()

#Retrieves time data from Route 1

time1 = browser.find\_element\_by\_xpath("//\*[@id='directionsPanelRoot']/div[2]/ul/li/a/table/tr/td[1]/div")

timedata1 = (time1.text).splitlines()

#Retrieves distance data from Route 1

distance1 = browser.find\_element\_by\_xpath("//\*[@id='directionsPanelRoot']/div[2]/ul/li[1]/a/table/tr/td[2]/div/table[1]/tr/td[2]")

distancedata1 = (distance1.text).splitlines()

#Prints out Route 1 results

print("Route: " + data[0] +" | Time: " + timedata1[0] + " | Distance: " + distancedata1[0])

# Prepare clicker for route 2

check1 = False;

try:

check1 = browser.find\_element\_by\_xpath("//\*[@id='directionsPanelRoot']/div[2]/ul/li[2]/a/table/tr/td[1]/div/table")

except:

print("There is no route 2 this time!")

if (check1):

# Gets route info from route 2

nav1 = browser.find\_element\_by\_xpath("//\*[@id='directionsPanelRoot']/div[2]/ul/li[2]/a/table/tr/td[2]/div/table[1]/tr/td[1]/p[4]")

data1 = (nav1.text).splitlines()

#Retrieves time data from Route 2

time2 = browser.find\_element\_by\_xpath("//\*[@id='directionsPanelRoot']/div[2]/ul/li[2]/a/table/tr/td[1]/div/table")

timedata2 = (time2.text).splitlines()

#Retrieves distance data from Route 2

distance2 = browser.find\_element\_by\_xpath("//\*[@id='directionsPanelRoot']/div[2]/ul/li[2]/a/table/tr/td[2]/div/table[1]/tr/td[2]")

distancedata2 = (distance2.text).splitlines()

#Prints out Route 2 results

print("Route: " + data1[0] +" | Time: " + timedata2[0] + " | Distance: " + distancedata2[0])

# Prepare Clicker for Route 3

check2 = False;

try:

check2 = browser.find\_element\_by\_xpath("//\*[@id='directionsPanelRoot']/div[2]/ul/li[3]/a/table/tr/td[1]/div/table")

except:

print("There is no route 3 this time!")

# Check if there is a route 3 available

if (check2):

# Get route info from Route 3

nav2 = browser.find\_element\_by\_xpath("//\*[@id='directionsPanelRoot']/div[2]/ul/li[3]/a/table/tr/td[2]/div/table[1]/tr/td[1]/p[4]")

data2 = (nav2.text).splitlines()

#Retrieves time data from Route 1

time3 = browser.find\_element\_by\_xpath("//\*[@id='directionsPanelRoot']/div[2]/ul/li[3]/a/table/tr/td[1]/div/table")

timedata3 = (time3.text).splitlines()

#Retrieves distance data from Route 1

distance3 = browser.find\_element\_by\_xpath("//\*[@id='directionsPanelRoot']/div[2]/ul/li[3]/a/table/tr/td[2]/div/table[1]/tr/td[2]")

distancedata3 = (distance3.text).splitlines()

#Prints out Route 1 results

print("Route: " + data2[0] +" | Time: " + timedata3[0] + " | Distance: " + distancedata3[0])

print(readable)

writer.writerow({'Route Number': 1, 'ETA': timedata1[0] + " min", 'Distance': distancedata1[0], 'Route': data[0], 'Time': readable})

if (check1):

writer.writerow({'Route Number': 2,'ETA': timedata2[0] + " min", 'Distance': distancedata2[0], 'Route': data1[0], 'Time': readable})

if (check2):

writer.writerow({'Route Number': 3,'ETA': timedata3[0] + " min", 'Distance': distancedata3[0], 'Route': data2[0], 'Time': readable})

print ("Cycle completed\n\n")

with open('bingMapsDataIL.csv', 'w', newline='') as csvfile:

fieldnames = ['Route Number', 'ETA', 'Distance', 'Route', 'Time']

writer = csv.DictWriter(csvfile, fieldnames=fieldnames)

writer.writeheader()

try:

while True:

ts = time.time()

readable = time.ctime(ts)

grabAndSave()

time.sleep(1) # 298 second day, gives 2 seconds for the program to run

except KeyboardInterrupt:

print("\n\nStopped by KEYBOARD INTERRUMPTION\n\n")

pass

browser.close()