I. Introduction

I am a student working on a thesis linked to the rate of completeness of events.

Goal is to assess the completeness of an event per Category. This aims to help event facilities to monitor their sales (Price, authorized Quantity, Categorization, KPI,...)

To do so I need to be able to build a dashboard with the figures per selected events on demand.

Information of completeness can be given through an official event seller by collecting the events where there is still availability per category and those which are complete.

In order to collet that information a bot would be required. Indeed refresh will be made every month to show trends on some specific events.

II. Requirement

The way I am thinking is with an excel sheet, we can inscribe the url of the event and from this collect the data through the bot:

Bot is simulating to take max tickets possible from category 1:

- Possibility 1: it is possible → Events is not full yet for category 1: "NOT FULL"
- Possibility 2: It is not possible only a few are available → Event is nearly full for category 1:
 "ALMOST FULL"
- Possibility 3: It is not possible to select any ticket → Event is full for Category 1: "FULL"

Same logic can be done for all the available category per event selected.

III. Interface available

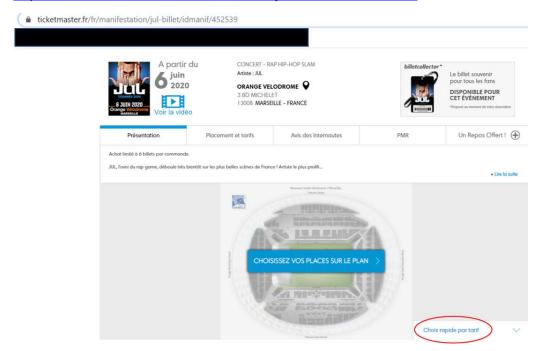
There are 3 types of event interface in the Official ticket seller.

I will describe the behavior expected by the bot bellow.

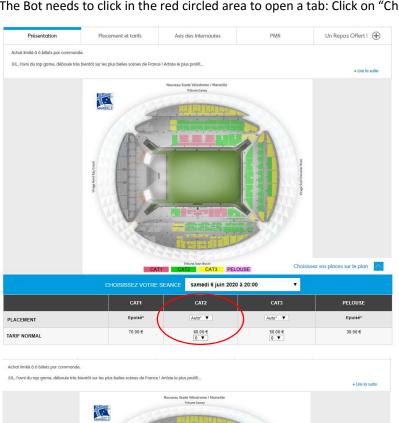
1. First Type – with the plan of the event facility

Through the link bellow

https://www.ticketmaster.fr/fr/manifestation/jul-billet/idmanif/452539



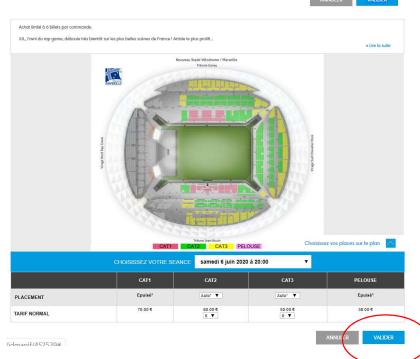
The Bot needs to click in the red circled area to open a tab: Click on "Choix rapide par tarif".

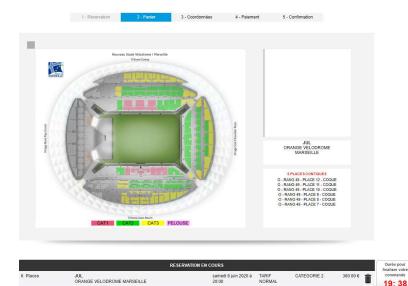


Select for each category available the maximum tickets possible. In our example we will do it for CAT 2.



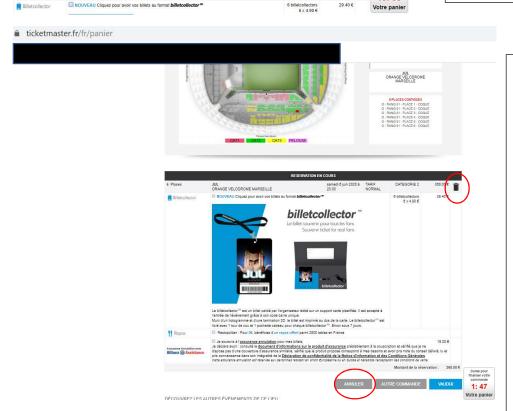
Maximum Ticket possible to select for CAT2 is <u>6</u>. Select 6 and click on "Valider"





If it is possible to select the maximum available tickets of CAT2 and we are on the confirmation webpage (like you can see on the left), it means the Event is not full for CAT2.

Report on the excel sheet the result for CAT2:"Not Full"



After being in the confirmation page, it is mandatory to remove the selected tickets from the account in order to continue to check availability from another category.

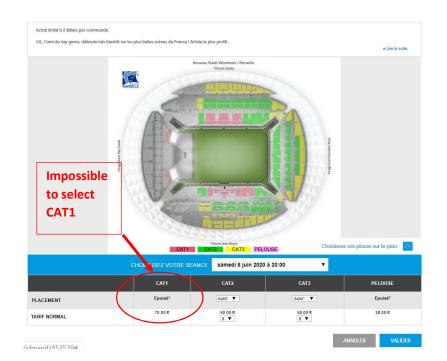
⇔ Click on the trash (circled in red) or in "ANNULER".
 Both choices are possible.

And proceed to check to the next category. (CAT1, CAT3, PELOUSE)

For this example. The same methodology needs to be done for :

- CAT1
- CAT2
- CAT3
- PELOUSE

As we can see in the bellow PrintScreen, it is not possible to select tickets from CAT1 et PELOUSE.

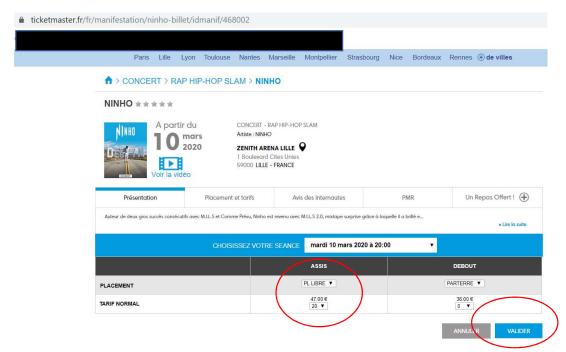


As it is not possible to select CAT1, it means the event is full for CAT1.

Report on the excel sheet the result for CAT1: "FULL"

2. Second Type – without the plan of the event facility

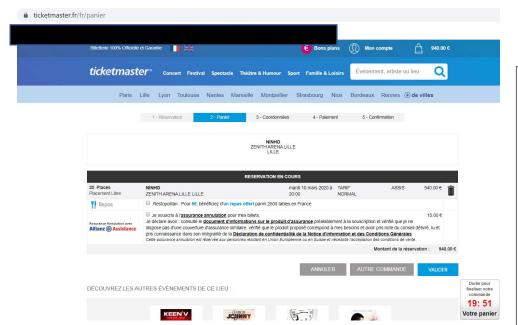
https://www.ticketmaster.fr/fr/manifestation/ninho-billet/idmanif/468002



For each Category available, the bot will select the maximum tickets available. In our example we start with "ASSIS"

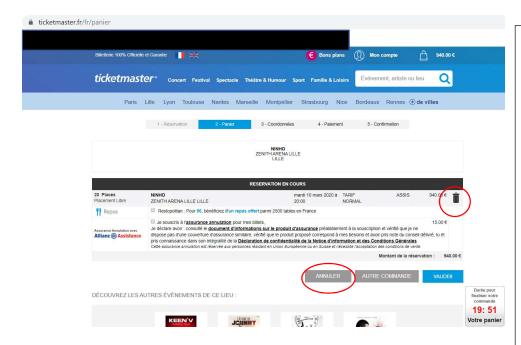
In our example it is 20.

Then the bot will click on validate



If it is possible to select the maximum available tickets of ASSIS and we are on the confirmation webpage (like you can see on the left), it means the Event is not full for ASSIS.

Report on the excel sheet the result for ASSIS: "Not Full"



After being in the confirmation page, it is mandatory to remove the selected tickets from the account in order to continue to check availability from another category.

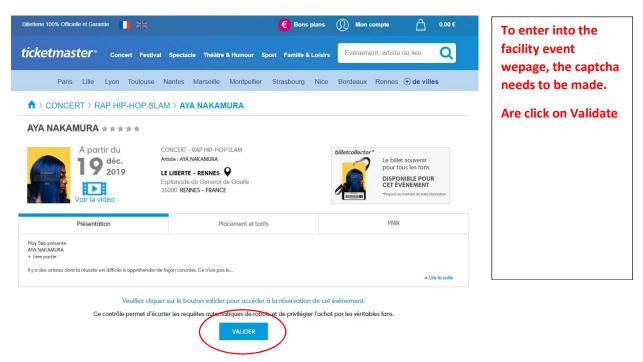
⇔ Click on the trash (circled in red) or in "ANNULER".
 Both choices are possible.

And proceed to check to the next category. In our example next one is DEBOUT

3. Third Type – with captcha

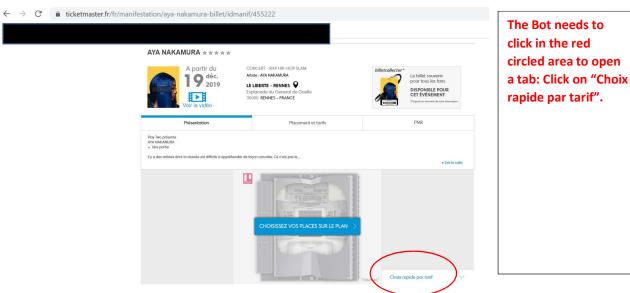
https://www.ticketmaster.fr/fr/manifestation/aya-nakamura-billet/idmanif/455222

The bot will have to fill the captcha to open the event facility webpage.



The process to retrieve information will be the same as presented previously.

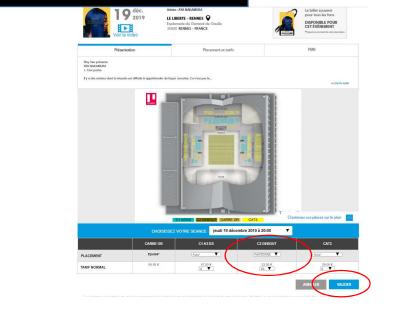
à ticketmaster.fr/fr/manifestation/aya-nakamura-billet/idmanif/455222

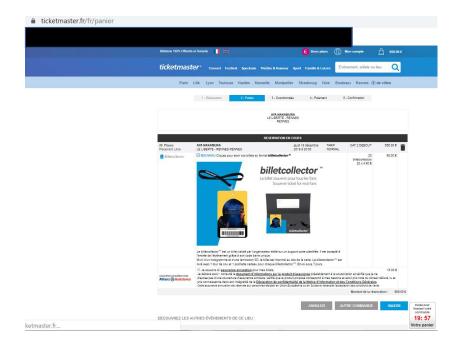


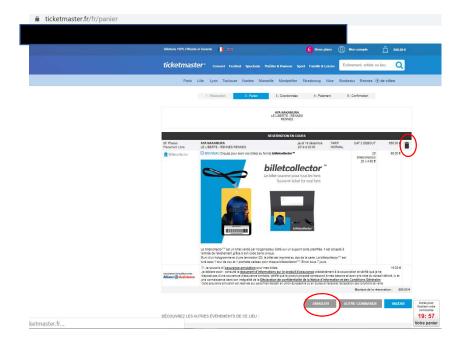
Select for each category available the maximum tickets possible.

In our example we will do it for C2
DEOUT (maximum ticket possible to be taken is 20).

And Validate.







If it is possible to select the maximum available tickets of C2 DEBOUT and we are on the confirmation webpage (like you can see on the left), it means the Event is not full for C2 DEBOUT.

Report on the excel sheet the result for C2 DEBOUT:"Not Full"

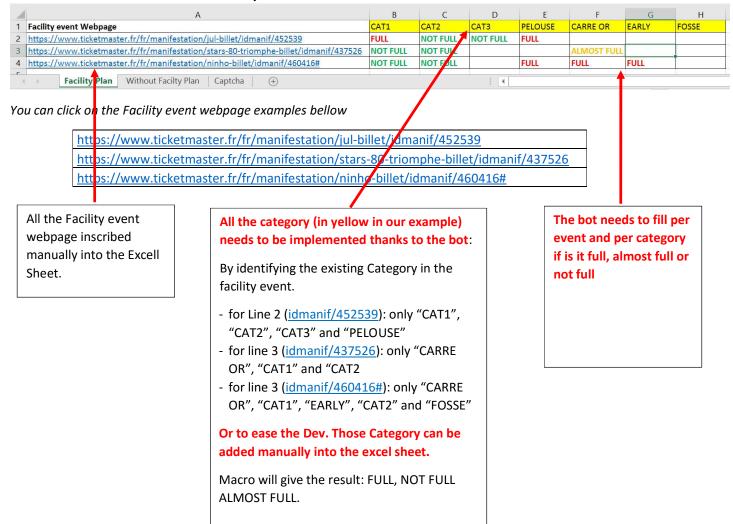
After being in the confirmation page, it is mandatory to remove the selected tickets from the account in order to continue to check availability from another category.

And proceed to check to the next categories (CARRE OR, C1 ASSIS, CAT3)

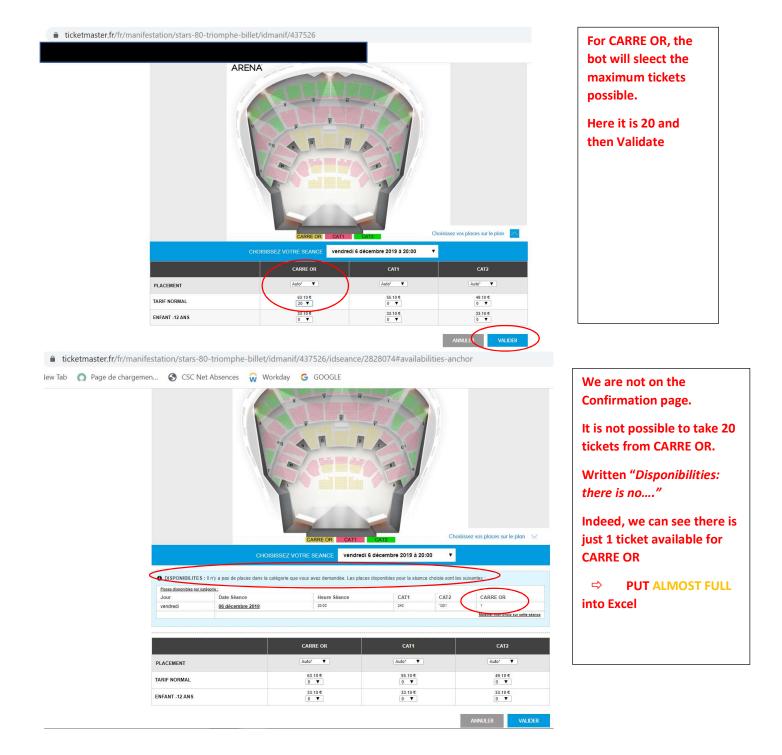
IV. Result of retrieving information

As there is 3 kind of identified process. If it is 3 separates way of doing, maybe in order to ease the dev, perhaps we can do as followed:

- Excel Sheet Tab1: Facility Plan



Example of ALMOST FULL situation (see next page). (CARRE OR for https://www.ticketmaster.fr/fr/manifestation/stars-80-triomphe-billet/idmanif/437526)



For Tab 2 (Without Facilty Plan) and Tab 3 (Captcha) of the Excel Sheet, the same logic will be taken.