**Analyst/Specialist, Technical - Home Task\_2**

Imagine that we launch a new country, Bolt Country, and we have 1,200 new restaurants to put into operation. For this, local teams need to manually create new accounts in our partner portal, a process that is the same for each new provider and is currently done manually by hand.

It takes 20 steps/fields, and 30 minutes of manual work to set up each provider, in a process that involves getting data from a single source and input it to our online partner portal.

1. What kind of automation, script, or strategy would you put in place to ensure that local teams can automate this manual process and be ready to launch Bolt Country?
2. What tools, software, languages would you use to set it up?
3. How long would it take you to develop and launch the proposed solution? And what would be the process you follow?

**Solution**

1. For this task, I decided to generate a strategy that involves two steps. The first step is using a script in Python to automatically register each provider, it will be an input type script where all the fields will be placed, after this the script will generate a CSV file which will have all the information of the records made by the local Team

I have created a first version of what this script would look like with the first fields that are registered for each provider:

Texto

Descripción generada automáticamente

The entire code will be uploaded in the folder with all this work and it will be called “Accounts.py”;

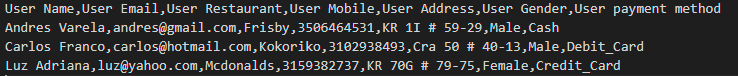
In this preliminary code there are the following fields (name, email, restaurant name, cell phone, address, gender, payment method), the idea is that the 30 fields can be added and the creation of the record can be completed automatically.

The program uses a graphical interface in tkinter (python library) and it will look like the following:

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

After completing the fields, the "Submit" button will generate a CSV File that for this example will have the name "file.csv", this will contain all the records and will look like the following:



In the previous image we can see 3 records with the fields mentioned above, this example will remain in the folder with all the files of this test ready to receive new records.

For the second step of this work, it will be to use the CSV file to register it in a relational SQL database, in this way we will not only have the information safe but later we can use it to carry out any type of analysis. For this to happen, we must first decide what type of database to use, since the information is not much and it is simple, we can use MySQL which is free and is used for this type of records, then to include the data from the CSV file that generates the Script from step one we can use another python script using the MySQL python library,

This script is an example of how a CSV file would be loaded into a MySQL database, since I do not have the database installed on my personal computer, the script would not work and we could not see its operation for the purposes of this test.

I include a screenshot of how the Script looks and I also include it inside the folder with all the files with the name "to\_SQL.py"

Texto

Descripción generada automáticamente

After loading the file in the database, we will have finished the automation strategy for the task set, we can draw the following conclusions about how this implementation would benefit the company:

* It would considerably reduce the time it would take to complete a registration, going from 30 min per registration to a maximum of 5 min it takes to do it with the Script
* Implementing the process is relatively simple and most of the work is already complete, it only remains to complete all the fields in the script and implement the suggested database.
* The Python programming language was used mainly and knowledge in SQL is also needed to implement the registry in the database

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