ZALORA Case Study

Complete Question 1 or Question 2 or Question 3 and Question 4.

You are only required to complete **two questions in total.*

Question 1

The Business Excellence team would like to build an automated solution to automate a manual scraping process in the Commercial department. The team has given you this task, and they would like to see you demonstrate your abilities by automating the scraping of product media (images and videos) for items on the H&M website.

The task for Question 1 is as follows:

- Write a **script in Python** to scrape all product media (images and video) for the SKUs listed down in Question 1 dataset (*please refer to the file provided by the recruiter*)
- You are required to send us your script and the product media (result)
- The script must allow for all the product media to be easily obtained for all the items without having to manually access or open the website
- All media must be placed into different subfolders of items, i.e. each subfolder must have images and videos for only 1 item.
- For example, for this item (Article Number “1122404001”), based on the item's product display view (PDV), there are 3 product images associated with this item. The script must ensure that the 3 images are automatically scraped (downloaded) into a folder labeled “1122404001” in your PC, before scraping the product media for the next item or (Article Number) in the list.
- Please submit the code on a git repo, try to follow best practices as much as possible from writing good commit messages, clean code, testing, having scalability in mind as well, provide your suggested architecture and why you chose each component.

Question 2

Write a **JavaScript or Google Apps Script** to obtain daily Covid-19 data for Malaysia. Using the data provided here (https://github.com/MoH-Malaysia/covid19-public/tree/main/epidemic), the script must ensure that the data is updated on a daily basis in a Google Sheet. The Covid-19 data must show the following:

- Daily Cases, Recoveries and Deaths
- Active Covid-19 cases
- Hospitalized Admissions and ICU Patients
- Percentage of fully vaccinated individuals out of total population

You must submit the following required items:

- Script to load the required data
- Google Sheet containing the loaded data

Question 3

The Finance Procure-to-Pay (P2P) team would like to automate the creation of Excel data reports. There are 2 main data reports to be automated: Payout file & Summary file. For each report, the team would normally receive a raw data file, and convert them into a working file (output).

The task for Question 3 is to automate the creation of the Payout and Summary working files using **Excel VBA or Macros**. More specifically, you are required to convert the raw data Payout and Summary files (*refer to the "Raw Data" folder provided by the recruiter*) into separate Payout and Summary working files. The resulting output working files to be generated (by you) are included in the "Working File" folder provided by the recruiter.

More details for this task are as follows:

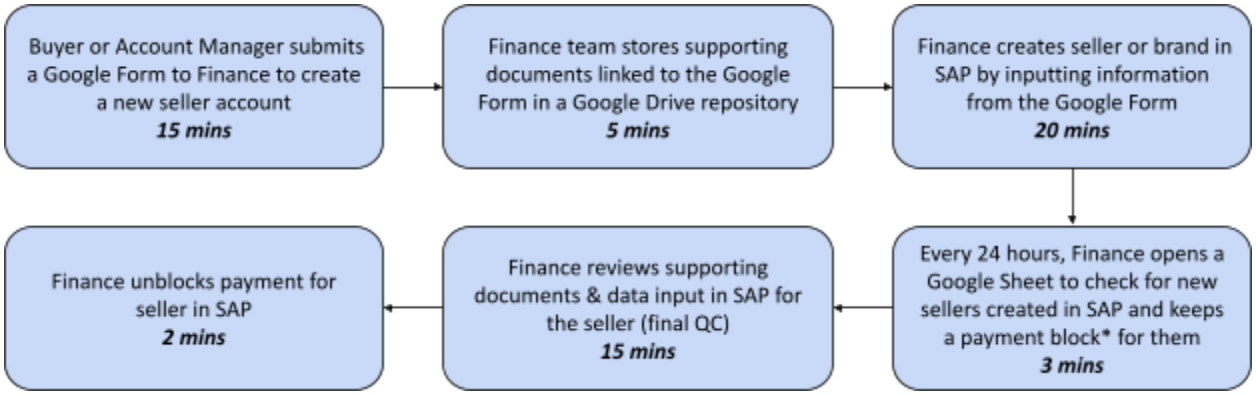
1. Each working file or sheet must have the columns with formulas, as highlighted by the last few colored data columns in the working files.
2. For the Payout working file:
    a. You are required to produce only 1 Payout working file with multiple sheets representing data for each country.
    b. For data rows with "Time Frame" of between the 15th and 31st working day, move these rows to a separate data table at the bottom of the sheet.
    c. For data rows with "Time Frame" of between the 1st and 14th working day, have an option for the tool user to choose if these data rows should be removed.
3. For the Summary working file:
    a. You are required to produce separate Summary working files representing data for each country code.
    b. The "NULL" data cells in the raw file must be converted to "0".
    c. In the working file, the "Check with SC" and "SAP code" columns must be loaded from the Payout working file. Set up a way for the tool user to extract the necessary data from a Payout working file.

Please submit the code in **MS Excel Macro-Enabled Worksheet files** and follow coding best practices as much as possible with clean code and clear comments for ease of understanding. You may make any relevant assumptions to produce the output working files.

Complete Question 4.

Question 4

In ZALORA, it is important that sellers are onboarded in an efficient manner. This will enable sellers to go live quickly on the website and start selling their products. The seller onboarding process is typically as follows:



**A payment block is a block on all payments of commissions and fees from ZALORA to the seller. It is implemented to ensure that the seller provides all required information correctly to ZALORA before receiving any revenue or profits.*

Given that ZALORA is growing and more sellers are coming onboard every year, the Chief Financial Officer would like this process to be automated. It currently requires 3 full-time employees in the Finance team to execute this process for each seller. Hence, as the Automation Specialist, you are tasked with preparing an implementation plan for the Finance team to automate the seller onboarding process. You are required to:

1. Prepare a simple proposal on whether ZALORA should build or buy a solution to automate the process (with the preferred option recommended by you):
    a. Outline what the preferred solution specifically entails, including but not limited to the type of solution, tools to be used and expertise needed.
    b. Include comparison tables of the different options and vendors (if a buy option is preferred).
2. Prepare a brief financial analysis of the proposed solution, outlining the benefits and costs required.
3. Plan and create a roadmap for how the proposed solution will be delivered over time.
4. Prepare a risk assessment plan and communication plan for the proposed solution.

Please outline any assumptions that are made. You may use PowerPoint, Word, Google Slides, Google Docs or any other relevant software for this question.