COVID-19 Charts with Python

Technical Documentation

# Details

* The project is about to create an RPA with Python (using specific libraries) and search on the site <https://www.worldometers.info/> the table with COVID-19 cases. Then, when the data is collected, this RPA is intended to create an excel/directly a chart (using specific libraries) to show the data properly and to see what can we analyze from it
* This project is a pilot project, that means it can have multiple additional features like creating multiple charts and selecting the most appropriate one or to create a prediction, as well.
* The project will be created using Python and specific libraries of RPA for Python, such as Robotframework, Tagui, Apify Js, Automagica, RPA Python, Openrpa, Pybotlib, Unrpa and so on.
* If the project cannot be done (after multiple times of trying) in Python RPA libraries, I will try to finish it in RPA Tools such as UiPath, BluePrism, Automation Anywhere. Then, if the project was implemented earlier than the schedule, I will try to automate also opening a Data Visualization tool such as Tableau or Power BI and create automated charts in the specified tools without using human contribution.
* Firstly, I built a mirror version for this project that was done in UiPath in order to see all my steps and all the technical details for my Python automation.
* Secondly, I saw some little problems that could make my life harder with the automation on this project.
* Thirdly, I decided to use as a Data Visualization tool the Tableau (main option) and Power BI (second option) because on Tableau I see that I can do the stuff much easier. So, If I cannot use the libraries from Python for Data visualization, I will use it to automate this step on Tableau/Power BI.
* The IDLEs used will be Pycharm and UiPath (if needed)
* The project will have the following path:
  + (1) Use Python RPA libraries in order to:
    - Open browser (or access the URL)
    - Search on <https://www.worldometers.info/> site
    - Search for COVID-19 Cases
    - Collect all the data needed
    - Paste the data into an CSV/Excel file (if needed)
  + (2) Use Python Data Visualization libraries for:
    - Select the data needed in order to create some visualizations
    - Create charts (and maybe dashboards)
    - Create predictions/conclusions after the charts were created (optional)
  + (3) If using Python RPA libraries isn’t well enough for me in order to collect the data, I will use the same path, but with UiPath for the first point.