Python project

Subject description form

1. Group members – Group Y

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2. References

• openpyxl
- https://app.datacamp.com/learn/courses/intro-to-python-for-data-science
- https://app.datacamp.com/learn/courses/data-types-for-data-science-in-python

• pandas
- https://app.datacamp.com/learn/courses/data-manipulation-with-pandas
- https://app.datacamp.com/learn/courses/importing-and-managing-financial-data-in-python
- https://app.datacamp.com/learn/courses/intermediate-python

• streamlit
- https://streamlit.io/
- https://www.bilibili.com/
- https://www.bilibili.com/video/BV1Cc411H7xA/?spm_id_from=333.337.search-card.all.click

• Financial Analysis
- Cours d'Analyse Financière, Richard Houbron
- Principes de gestion financière des sociétés, Brealey/Myers, Pearson

3. Datasources

• iRobot Financial Reports
- https://investor.irobot.com/financial-information/annual-reports

4. Subject description

• Compute Financial Ratios

- Select an excel data base
- Data Collection/Storage (repository.py)
- Data cleaning: select only useful information to compute ratios (repository.py)
- Compute ratios and interpretation for each year (model.py)
- Streamlit interface to show the results (view.py)
- The user can select the Data Base (Select file)
- The user can see the first lines of the Data Base, to check if it is okay
- The user can see the ratios and interpretation for each year
- The program compute ratios based on a file that contain annual accounts