Optival’s Projects

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Below you can find explanations of the projects and how to run them.

We have two projects and a PYTHON requirement file:

1. *ExcelTest*
2. *WebTest*
3. *requirements.txt*

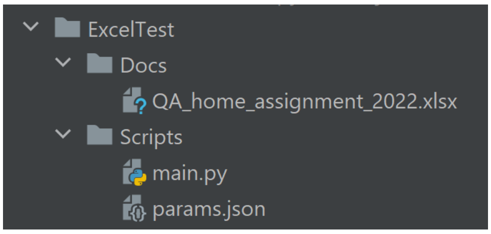
Install requirements:

1. *Download the projects to your environment*
2. *Install the requirement.txt file with the command:*

```
pip install -r requirements.txt
```

ExcelTest project

project hierarchy:



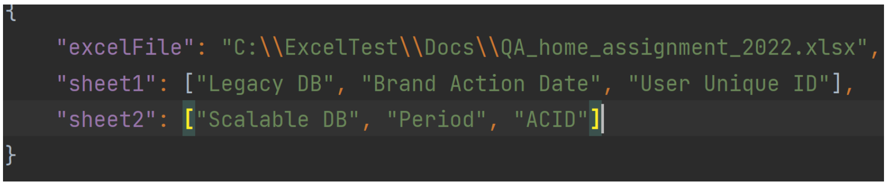
```
ExcelTest
  Docs
    QA_home_assignment_2022.xlsx
  Scripts
    main.py
    params.json
```

Docs contain:

QA_home_assignment_2022.xlsx - Excel with the Tables

Scripts contain:

1. *params.json:*
   contains the excel path and the 2 sheets to compare with the unique IDs.



```
{
    "excelFile": "C:\\ExcelTest\\Docs\\QA_home_assignment_2022.xlsx",
    "sheet1": ["Legacy DB", "Brand Action Date", "User Unique ID"],
    "sheet2": ["Scalable DB", "Period", "ACID"]
}
```

2. *main.py :*
   This script will get the params.json as a parameter.
   The script will compare 2 Excels by the unique id's, answers the questions, and will generate a new Excel with 3 sheets:

   1. *First sheet name results - All the rows that exist in the first sheet and not in the second sheet.*

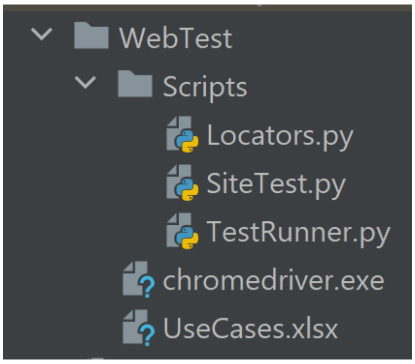
   2. *Second sheet name results - All the rows that exist in the second sheet and not in the first sheet.*

   3. *Answers - Of all the questions.*

To run execute the command below in the command line:
python main.py params.json

WebTest Project

project hierarchy:



```
WebTest
    Scripts
        Locators.py
        SiteTest.py
        TestRunner.py
    chromedriver.exe
    UseCases.xlsx
```

1. *chromedriver.exe - This is the driver to use for the UI tests.*

2. *UseCases.xlsx - 3 use cases for the automation tests.*

3. *Scripts contain:*

    1. *Locators.py - contains all the site elements XPATHS for the tests.*

    2. *SiteTest.py - contains the 3 test cases*

    3. *TestRunner.py - This is the main script, that will run the tests and generate an HTML file report.*

To run execute the command below in the command line:
TestRunner.py params.json