**User Documentation for the PLM-Jira Comparison Tool**

**Overview**

This application is designed to allow users to compare data between two databases: PLM and JIRA. The app allows users to upload their databases, compare the data, check for mismatches between columns, overwrite one over the other and optionally export the results into an Excel file.

**For source code :**

**Prerequisites**

To use the PLM-Jira Comparison Tool, you need the following:

* Python 3.x (preferably the latest version)
* Required Python Libraries:
  + Tkinter (for the GUI)
  + Pandas (for data manipulation)
  + Pillow (for image handling)
  + Openpyxl (for exporting data to Excel)

**How to Use the Application**

**1. Launch the Application**

Launch the executable /Livrable/app/Exercice dev\_python.exe, this will open the GUI with a **Login Page** to authenticate and access the main application.

**2. Login Page**

Credentials:

To log in, fill in the following details:

* Jira Link: Jira.com
* PLM Link: plm.com
* User Email: user.ev@test.com
* Password: 123456789

Steps to log in:

1. Open the application and enter the Jira link (Jira.com).
2. Enter the PLM link (plm.com).
3. Enter your user email (user.ev@test.com).
4. Enter your password (123456789).
5. Click the "Login" button to authenticate. If credentials are correct, you will be redirected to the main application page.

Error Handling:

* If any field is empty or invalid, a message box will appear informing the user to fill in all fields.
* If the credentials are incorrect, a message will appear notifying the user to check their input.

**3. Main Application Page**

Once logged in successfully, you will be redirected to the Main Page. This page is where you can interact with the databases, perform comparisons, and export the results.

Features on the Main Page:

1. PLM File Selection:
   * Click the "Select PLM Database" button to load your PLM database (Excel file).
   * Load he file ***/inputs/database\_plm.xlsx***
2. Jira File Selection:
   * Click the "Select Jira Database" button to load your Jira database (Excel file).
   * Load he file ***/inputs/database\_jira.xlsx***
3. Compare 2 Databases:
   * After loading both databases (PLM and Jira), click the "Compare 2 Databases" button.
   * The application will compare the two datasets and display any mismatches in the text area below the comparison section.
4. Overwrite Option:
   * You can select whether to overwrite PLM data or overwrite Jira data using checkboxes. Only one of these options can be selected at a time.
5. Column Selection for Overwrite:
   * After clicking the "Export Results" button, a new dialog will appear where you can select which columns to overwrite based on your previous choice.
   * Choose the columns you want to overwrite from the data based on your selection.
6. Export Results:
   * Once you have compared the databases and selected the columns for overwrite, click the "Export Results" button.
   * This will open a dialog for you to choose a location and save the updated data into an Excel file.
   * The exported Excel file will contain only the modified data based on your overwrite selections.
7. **Created By**

This application was developed by:

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