

Tkinter GUI Development

SCIENTIFLOW

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Overview

This project is a desktop GUI application that provides login and logout functionalities for the scientiflow-cli tool. The application is built using Python and Tkinter, following the assignment requirements to focus only on these two features. The GUI offers a user-friendly interface to interact with the scientiflow-cli without using the terminal.

Features

- **Login:**
Users can enter their username and password to log in via the GUI. The application calls scientiflow-cli login in the background and displays success or error messages.
- **Logout:**
After login, users can log out with a single click. The application calls scientiflow-cli logout and updates the interface accordingly.
- **Modern Design:**
The interface uses modern fonts, colors, and layout for a professional look and feel.

Technology Used

- **Programming Language:** Python 3
- **GUI Framework:** Tkinter
- **External Tool:** scientiflow-cli (installed via pip)

Commands

1. **Install Prerequisites:**
`python --version`
2. **Install the Python Extension in VS Code**
3. **Create Your Project Folder:**
`mkdir scientiflow_gui`
`cd scientiflow_gui`
4. **Create a Virtual Environment:**
`python -m venv venv`
`.\venv\Scripts\activate`
5. **Select the Python Interpreter**

6. Install Required Packages:

```
pip install scientiflow-cli
```

```
pip install tk
```

7. Run Your Python Code:

```
python main.py
```

GITHUB LINK: <https://github.com/guru0284/task1scientiflow.git>