

Stopwatch Application

The project is a small Python application that works as a basic stopwatch.

It was created using Tkinter, which is Python's standard GUI module.

The app can start the timer, stop it, and reset it back to zero.

This project aimed to understand how GUI programs work and how time can be managed inside a Python application.

It updates every second, and the interface is very simple and straightforward to use.

Features

- Shows the running time in hours : minutes : seconds
- Start button initiates the timer
- Stop button pauses it at the current time
- Reset button brings it back to 00:00:00
- Timer updated every second using Tkinter's `after()` method
- Buttons change state according to the running/stopped state

Technologies Used

- Python 3
- Tkinter (no external installation required)
- Datetime module to format the time

How to Run the Project

1. Ensure that Python 3 is installed on your system
2. Download or save the Python file, e.g., `stopwatch.py`
3. Open a terminal or command prompt
4. Change into the directory where your file is saved
5. Run using: `python stopwatch.py`

Testing the Application

- Checked that the timer starts immediately when Start is pressed
- Verified that the timer stops without delay
- Tested Reset while running and stopped
- Confirmed that time updates correctly every second
- Ensured Start button doesn't create multiple running timers