Site Checker with Time Scheduling

This Python application periodically attempts to connect to a specified website or server according to a defined schedule, such as every few minutes or at specific times. It continuously monitors the availability of the site.

Key Features:

- 1. Automated Monitoring: This Python script automates the process of checking the availability of a specified website (URL) at regular intervals (CHECK_INTERVAL minutes).
- 2. Notification Mechanisms:
 - Email Alerts: Utilizes smtplib to send email notifications to NOTIFY_EMAIL when the website is found to be down.
 - o Console Feedback: Provides real-time feedback in the console, indicating whether the site is up or down and its HTTP status code.
- 3. Robust Error Handling: Handles potential connection errors (requests.ConnectionError) gracefully and notifies the user appropriately.
- 4. Configurability: Users can easily configure the script by adjusting URL, CHECK_INTERVAL, EMAIL_ADDRESS, EMAIL_PASSWORD, and NOTIFY_EMAIL to suit their monitoring needs.
- 5. Continuous Operation: Utilizes schedule and time.sleep(1) to ensure continuous execution, running the website check function (check_website) as per the defined interval.

How to Use:

- 1. Setup and Configuration:
 - o Replace URL with the website or server you want to monitor.
 - Adjust CHECK_INTERVAL to specify how often (in minutes) the script should check the website's status.
 - Configure EMAIL_ADDRESS, EMAIL_PASSWORD, and NOTIFY_EMAIL for email notifications.
- 2. Email Configuration:
 - Ensure the SMTP server settings (smtp.gmail.com, port 587 with TLS encryption) are correct for your email provider.
 - Update EMAIL_ADDRESS and EMAIL_PASSWORD with your email credentials.
- 3. Execution:
 - o Run the script (python your_script_name.py) to start monitoring the specified URL.
 - The script will continuously check the website's status at the defined intervals and notify via email if the site is down.
- 4. Deployment Considerations:
 - Deploy the script on a server or a machine that runs continuously (e.g., cloud server, Raspberry Pi) to ensure uninterrupted monitoring.
 - o Monitor console outputs for real-time updates on the website's status.