**NETFLASK**

This is a Python Flask web app that provides basic network troubleshooting and information gathering functionality, including ping test, DNS and IP lookup, traceroute, port scanner, and web scraping.

**Modules:**

* Ping Test: Tests the reachability of a host by sending ICMP packets.
* DNS and IP Lookup: Retrieves DNS information and performs a reverse lookup for a given IP address.
* Traceroute: Traces the path that packets take from the server to a specified host.
* Port Scanner: Scans for open ports on a specified host.

**Installation**

1. Clone this repository to your local machine.
2. Create a virtual environment: **python -m venv env**.
3. Activate the virtual environment: **source env/bin/activate** (on Linux/Mac) or **.\env\Scripts\activate** (on Windows).
4. Install the required dependencies: **pip install -r requirements.txt**.
5. Start the Flask development server: **python app.py**.
6. Open your web browser and navigate to **http://localhost:5000**.

**Usage**

The home page of the web app provides links to each of the modules. Simply click on the desired module and follow the on-screen instructions to enter the necessary input.

**Login**

The default login credentials are **nargis:1234**. Please change the password after logging in for the first time.

**Dependencies**

This project requires the following dependencies:

* Flask==2.1.2
* Jinja2==3.0.2
* MarkupSafe==2.0.1
* Werkzeug==2.0.2
* argparse==1.4.0
* dnspython==2.1.0
* itsdangerous==2.0.1
* nmap==0.6.7
* requests==2.26.0
* six==1.16.0
* urllib3==1.26.7

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