NAME : DIVYANSHI AGARWAL

ROLL NO : 21UCS074

Python Dockerfile

Issues:

1. Incorrect `WORKDIR` (`/appp` instead of `/app`).
2. Misspelled file path in `COPY` statement (`appy.py` instead of `app.py`).
3. Package `netifaces` misspelled as `netiface`.
4. Incorrect port format in `EXPOSE` (`"eight thousand"` instead of `8000`).
5. Misspelled `CMD` command (`"pythn"` instead of `python`).

Solution (Updated Dockerfile):

- Set `WORKDIR` to `/app`.
- Corrected `COPY` statement to copy `app.py` to `/app`.
- Fixed `netifaces` spelling.
- Changed `EXPOSE` to `8000`.
- Fixed `CMD` to `["python", "app.py"]`.

Nginx Dockerfile

Issues:

1. Misspelled base image version (`nginx:latests` instead of `nginx:latest`).
2. Typo in configuration path (`nginix.conf` instead of `nginx.conf`).
3. Wrong destination directory (`htmll` instead of `html`).
4. Incorrect port format in `EXPOSE` (`"eighty"` instead of `80`).
5. Syntax error in `CMD` (`daemon of;` instead of `daemon off;`).

Solution (Updated Dockerfile):

- Corrected base image to `nginx:latest`.
- Fixed `COPY` statements for paths.
- Updated `EXPOSE` to `80`.
- Fixed `CMD` to `daemon off;`.

nginx.conf

Issues:

1. Typo in `worker_connections` directive.
2. Incorrect include path for `mime.types` (`mime.typess`).

3. Incorrect default type (`default_typ`).

Solution (Updated `nginx.conf`):

- Corrected syntax issues (`worker_connections` and `default_type`).
- Fixed the `include` path for `mime.types`.
- Added `upstream` directive for better load balancing.

app.py

Issues:

1. Missing CSS styling for consistent presentation.
2. Missing default username (`Divyanshi - 21ucs074`) for testing.

Solution (Updated `app.py`):

- Added CSS styling for HTML output.
- Set default username to `Divyanshi - 21ucs074`.

docker-compose.yaml

Issues:

1. Incorrect port format (`eighty` and `eight thousand` instead of `80` and `8000`).
2. Typo in volume mount path (`nginx.confi`).
3. Typo in network driver (`bridg` instead of `bridge`).
4. Typo in network options (`compelex_option`).

Solution (Updated `docker-compose.yaml`):

- Corrected port mappings to `80:80` and `8000:8000`.
- Fixed volume mount paths.
- Corrected network driver to `bridge`.
- Removed unused network options.

New index.html

A new `index.html` file was created to serve a basic static page for the Nginx server.