

# Devops Assignment Challenge (Qoala)

## - Kanishk Sharma(21ucs104)

### *Updates and Corrections for Docker Setup-*

#### docker-compose.yml Updates:

- Changed port mapping from eighty:80 to 80:80 to enable proper HTTP access.
- Corrected indentation and spelling in service definitions.
- Ensured network driver is set to bridge for connectivity.

#### Configuration File Corrections:

##### nginx.conf:

- Set worker\_processes to auto for optimized performance.
- Fixed include directive to correctly reference /etc/nginx/mime.types.
- Corrected default\_typ to default\_type.

##### Dockerfile for Nginx:

- Fixed base image typo: updated FROM nginx:latests to FROM nginx:latest.
- Set CMD to ["nginx", "-g", "daemon off;"] to keep Nginx running in the foreground.

##### Dockerfile for Python Application:

- Corrected COPY command to COPY app.py /app.
- Updated CMD to ["python", "app.py"] to properly start the application.

#### Testing and Debugging:

- Used docker-compose logs -f to monitor logs for both the Python application and Nginx services in real time.
- Verified application accessibility at http://localhost and confirmed it runs as expected.
- Confirmed Nginx is correctly logging incoming requests, indicating that routing is functional.