# **Project 1 NGINX Deployment Slides**

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Prepared for: Prof. Samuel Cho, ASE 230, Fall 2025

#### Overview:

The goal of this part of the project was to deploy the REST APIs with **NGINX** in accordance to the following constraints:

- Deployment steps/tutorial documented in Marp slide (and converted into PDFs)
- full points if marp file is made with screen captures, no partial points
- A screen capture of your NGINX server working should be included
- Saved in presentation/ directory

# **Steps**

1. Locate the nginx.conf file, this can be done by executing brew info nginx. Example location:

```
/opt/homebrew/etc/nginx
```

2. CD to the correct file path. Example command:

```
cd /opt/homebrew/etc/nginx
```

3. Perform nano nginx.conf to edit the file. Example command:

```
nano nginx.conf
```

#### **Screen Captures:**

```
[joshsparks@MacBookAir ~ % brew info nginx
    ==> nginx: stable 1.29.2 (bottled), HEAD
    HTTP(S) server and reverse proxy, and IMAP/POP3 proxy server
    https://nginx.org/
    Installed
    /opt/homebrew/Cellar/nginx/1.29.2 (27 files, 2.5MB) *
      Poured from bottle using the formulae.brew.sh API on 2025-10-17 at 15:38:41
    From: https://github.com/Homebrew/homebrew-core/blob/HEAD/Formula/n/nginx.rb
    License: BSD-2-Clause
    ==> Dependencies
    Required: openss1@3 
    ==> Options
    --HEAD
           Install HEAD version
    ==> Caveats
    Docroot is: /opt/homebrew/var/www
    The default port has been set in /opt/homebrew/etc/nginx/nginx.conf to 8080 so t
    hat
    nginx can run without sudo.
    nginx will load all files in /opt/homebrew/etc/nginx/servers/.
   [joshsparks@MacBookAir ~ % cd /opt/homebrew/etc/nginx
joshsparks@MacBookAir nginx %
```

3 [joshsparks@MacBookAir nginx % nano nginx.conf

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#### 4. Replace the server block with the following:

```
server {
listen 8080;
server_name localhost;
root "/Users/joshsparks/Desktop/Fall 2025 Schoolwork/ASE 230 Server-Side Programming/project1-4/ASE230_Project1/code"; # Adjust path for your system index index.php index.html index.htm;

location / {
    try_files $uri $uri/ =404;
}

location ~ \.php$ {
fastcgi_pars 127.0.0.1:9000; # PHP-FPM address
fastcgi_index index.php;
fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
include fastcgi_params;
}
```

```
UW PICO 5.09
                                File: nginx.conf
                                                                    Modified
 sendfile
                 on;
 keepalive_timeout 65;
 server {
 listen 8080;
 server_name localhost;
 root /Users/joshsparks/Desktop/Fall 2025 Schoolwork/ASE 230 Server-Side Pro$
 index index.php index.html index.htm;
 location / {
     try_files $uri $uri/ =404;
 location ~ \.php$ {
     fastcgi_pass 127.0.0.1:9000; # PHP-FPM address
     fastcgi_index index.php;
     fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
     include fastcgi_params;
```

5. Restart NGINX with the following command:

```
nginx -s reload
```

6. If php is not running, run the following command:

brew services start php

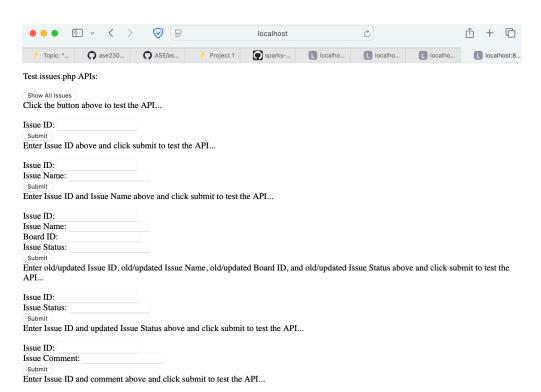
7. To test NGINX is working properly, go to the following address on your web browser:

http://localhost:8080/your\_file\_path/file\_you\_want\_to\_test

```
[joshsparks@MacBookAir nginx % nginx -s reload
joshsparks@MacBookAir nginx % 
[joshsparks@MacBookAir ~ % brew services start php
Service `php` already started, use `brew services restart php` to restart.
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```

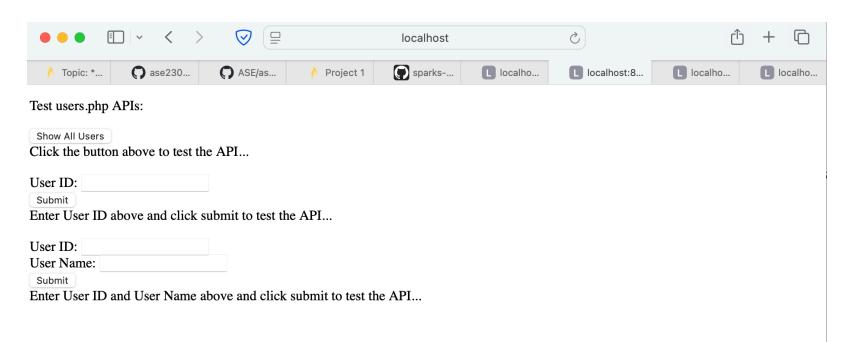
### My first web address test:

http://localhost:8080/HTML\_JavaScript\_Tests/issues\_api\_tests.html



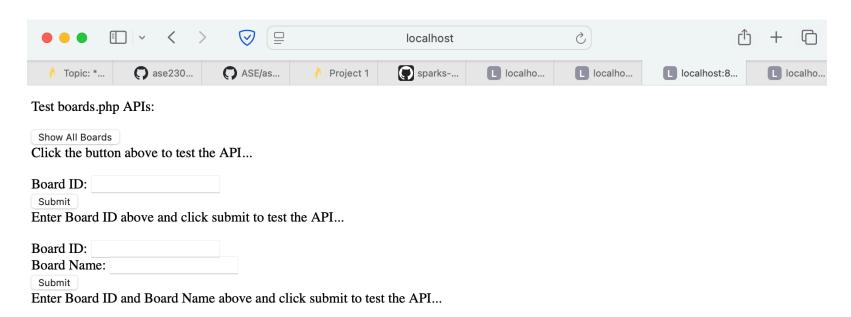
## My second web address test:

http://localhost:8080/HTML\_JavaScript\_Tests/users\_api\_tests.html



# My third web address test:

http://localhost:8080/HTML\_JavaScript\_Tests/boards\_api\_tests.html



### References:

Setting up NGINX For PHP.md, pages 15, 16, 21, 25, 26