

EIGHT25 MEDIA INTERNSHIP ASSIGNMENT - FRONT-END

DEVELOPMENT SUMMARY – Nemitha Wijerathna

Project Overview

Successfully converted the provided Figma design into a fully functional implementation implementing all four main sections: Hero, Automation, Testimonials, and Connect sections.

Live Demo Link: <https://eight25-media-internship.vercel.app/>

HTML STRUCTURE

The implementation follows the semantic standards defined in HTML5, with clear and easy-to-understand structure. Proper ARIA labels and semantic elements have been used to ensure screen-reader compatibility. The structuring of the code is done using the BEM convention-based naming of CSS classes.

STYLING – SCSS

Instead of regular CSS, I implemented SCSS keeping better code organization. The stylesheets are modularly structured with separate folders for abstracts (variables, mixins), base styles, components, and layout sections. In addition, the implementation is fully responsive across all devices

- `npm run dev` - Start SCSS compiler in watch mode
- `npm run build` - Compile SCSS to compressed CSS.

JAVASCRIPT FUNCTIONALITY

I enhanced the user experience by adding interactive elements like floating icons with smooth, staggered animations. Buttons feature ripple effects. For scroll-triggered animations, I used the **Intersection Observer API** for better performance over traditional scroll listeners.

4 TH INSTRUCTION ANSWERS – VIRTUAL HOST CONFIGURATIONS

- **Apache Virtual Host Setup – XAMPP**

Configuration Code:

```
<VirtualHost *:80>
    ServerName eight25-internship-assessment.test
    DocumentRoot "C:/xampp/htdocs/eight25-internship"

    <Directory "C:/xampp/htdocs/eight25-internship">
        Options Indexes FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>
</VirtualHost>
```

Configuration Steps:

- Created configuration file eight25-internship.conf in my C:\xampp\apache\conf\extra directory.
- Added include directive to httpd.conf: Include conf/extra/eight25-internship.conf
- Modified Windows hosts file located in C:\Windows\System32\drivers\etc by adding:
127.0.0.1 eight25-internship-assessment.test
- Restarted Apache service.
- The site is accessible via <http://eight25-internship-assessment.test>

- **Nginx Virtual Host Setup – Docker**

Configuration Code:

```
server {  
    listen 80;  
    server_name eight25-internship-assessment.test;  
    root /usr/share/nginx/html;  
    index index.html;  
  
    location / {  
        try_files $uri $uri/ =404;  
    }  
  
    location ~* \.(css|js|png|jpg|jpeg|gif|ico|svg)$ {  
        expires 1y;  
        add_header Cache-Control "public, immutable";  
    }  
}
```

Configuration Steps:

- Created nginx.conf server block configuration file in my local project directory.
- Created Dockerfile with Nginx Alpine base image and website files.
- Built Docker image using: “`docker build -t eight25-nginx .`” command.
- Modified Windows hosts file located in C:\Windows\System32\drivers\etc by adding:
127.0.0.1 eight25-internship-assessment.test
- Deployed Nginx container using: “`docker run -d -p 80:80 --name eight25-nginx-test eight25-nginx`” command.
- The site is accessible via <http://eight25-internship-assessment.test>

DOCKER IMPLEMENTATION

I containerized the website using Docker with an Nginx Alpine base image. The setup serves site files through a container, mapping port 80 to 3000 on the host as required. I also configured volume mounting for real-time file updates during development without needing to rebuild the container.

- Build Docker image: `docker build -t eight25-website .` command.

- Run container with volume and port mapping: “docker run -d -p 3000:80 -v “\${PWD}:/usr/share/nginx/html” --name eight25-container eight25-website” command.