

# **IT314 SOFTWARE ENGINEERING**

**Project: Naive Baker** 

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Group: 13

**Testing: Non Functional Requirements TESTING** 

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# **Maintainability:**

- Naivebaker, which uses django ,vercel, railway for the backend and JS and CSS for the front, undergoes maintainability testing to make sure the system is simple to update and enhance in the future.
- The code has been reviewed to ensure that it complies with coding standards and is simple to read and understand. We have thorough documentation outlining every step of the process, and the system has undergone testing to ensure it can withstand modifications without malfunctioning. Furthermore, the code may be modified without causing issues in other areas of the system, and the system is designed to introduce new features with ease. All in all, we've made sure that Common Ground is robust and easily extensible without generating problems.

# Ease of Use:

Tested with: <a href="https://www.webpagetest.org/">https://www.webpagetest.org/</a>

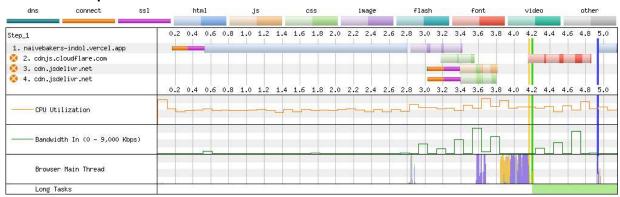
# **Lighthouse Report:**



# **Performance Report:**



# **Web Vitals Report:**



# **Request Details**

10

https://cdn.jsdelivr...ss/bootstrap.min.css text/css

https://cdn.jsdelivr...st/umd/popper.min.js application/javascript

https://cdn.jsdelivr...tstrap.bundle.min.js application/javascript High

https://cdn.jsdelivr...t/jquery.slim.min.js application/javascript High



183 ms

179 ms

229 ms

251 ms

375 ms

49 ms

129 ms

42 ms

25.8 KB

7.6 KB

23.1 KB

25.6 KB

200

200

200

200

11 ms

40 ms

90 ms

3.39 s

3.39 s

3.39 s

3.392 s

Before Start Render Before On Load After On Load 3xx Response



# Website Vulnerability Scanner Report

# √ https://naivebakers-indol.vercel.app/

# Summary





### Scan information:

 Start time:
 Dec 02, 2023 / 12:54:11

 Finish time:
 Dec 02, 2023 / 12:54:28

 Scan duration:
 17 sec

Tests performed: 19/19
Scan status: Finished

# **Findings**

# Missing security header: Content-Security-Policy

CONFIRMED

URL	Evidence
https://naivebakers-indol.vercel.app/	Response headers do not include the HTTP Content-Security-Policy security header

#### **∨** Details

### Risk description:

The Content-Security-Policy (CSP) header activates a protection mechanism implemented in web browsers which prevents exploitation of Cross-Site Scripting vulnerabilities (XSS). If the target application is vulnerable to XSS, lack of this header makes it easily exploitable by attackers.

### Recommendation:

Configure the Content-Security-Header to be sent with each HTTP response in order to apply the specific policies needed by the application.

### References:

 $https://cheatsheetseries.owasp.org/cheatsheets/Content\_Security\_Policy\_Cheat\_Sheet.html. \\ https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Content\_Security\_Policy. \\$ 

### Classification:

CWE: CWE-693

OWASP Top 10 - 2013 : A5 - Security Misconfiguration OWASP Top 10 - 2017 : A6 - Security Misconfiguration

# Server software and technology found

UNCONFIRMED (1)

Software / Version	Category
Cloudflare	CDN
jsDelivr	CDN
cdnjs	CDN
© Popper	Miscellaneous
Bootstrap 4.6.2	UI frameworks

▲ Vercel	PaaS
© jQuery	JavaScript libraries
Font Awesome 5.10.0	Font scripts
♠ HSTS	Security

#### **∨** Details

#### Risk description:

An attacker could use this information to mount specific attacks against the identified software type and version.

#### Recommendation:

We recommend you to eliminate the information which permits the identification of software platform, technology, server and operating system: HTTP server headers, HTML meta information, etc.

### References:

 $https://owasp.org/www-project-web-security-testing-guide/stable/4-Web\_Application\_Security\_Testing/01-Information\_Gathering/02-Fingerprint\_Web\_Server.html$ 

#### Classification:

OWASP Top 10 - 2013 : A5 - Security Misconfiguration OWASP Top 10 - 2017 : A6 - Security Misconfiguration

# Security.txt file is missing

CONFIRMED

#### URL

Missing: https://naivebakers-indol.vercel.app/.well-known/security.txt

### **→** Details

### Risk description:

We have detected that the server is missing the security.txt file. There is no particular risk in not creating a valid Security.txt file for your server. However, this file is important because it offers a designated channel for reporting vulnerabilities and security issues.

### Recommendation:

We recommend you to implement the security.txt file according to the standard, in order to allow researchers or users report any security issues they find, improving the defensive mechanisms of your server.

### References:

https://securitytxt.org/

# Classification:

OWASP Top 10 - 2013 : A5 - Security Misconfiguration OWASP Top 10 - 2017 : A6 - Security Misconfiguration

# Website is accessible.

- Nothing was found for vulnerabilities of server-side software.
- Nothing was found for client access policies.
- Nothing was found for robots.txt file.

Nothing was found for use of untrusted certificates. Nothing was found for enabled HTTP debug methods. Nothing was found for secure communication. Nothing was found for directory listing. Nothing was found for missing HTTP header – Strict-Transport-Security. Nothing was found for missing HTTP header – X-Frame-Options. Nothing was found for missing HTTP header – X-Content-Type-Options. Nothing was found for missing HTTP header - Referrer. Nothing was found for domain too loose set for cookies. Nothing was found for HttpOnly flag of cookie. Nothing was found for Secure flag of cookie.

# Scan coverage information

### List of tests performed (19/19)

- Checking for website accessibility...
- Checking for missing HTTP header Content Security Policy...

Nothing was found for unsafe HTTP header Content Security Policy.

- Checking for website technologies...
- Checking for vulnerabilities of server-side software...
- Checking for client access policies...
- Checking for robots.txt file...
- Checking for absence of the security.txt file...
- Checking for use of untrusted certificates...
- Checking for enabled HTTP debug methods...
- ✓ Checking for secure communication...
- Checking for directory listing...
- ✓ Checking for missing HTTP header Strict-Transport-Security...
- Checking for missing HTTP header X-Frame-Options...
- ✓ Checking for missing HTTP header X-Content-Type-Options...
- Checking for missing HTTP header Referrer...
- Checking for domain too loose set for cookies...

- Checking for HttpOnly flag of cookie...
- Checking for Secure flag of cookie...
- ✓ Checking for unsafe HTTP header Content Security Policy...

# Scan parameters

Target: https://naivebakers-indol.vercel.app/

Scan type: Light Authentication: False

### Scan stats

Unique Injection Points Detected: 5
URLs spidered: 5
Total number of HTTP requests: 13

Average time until a response was 82ms

received: