

# Hacking with a Heads Up Display

Creating Usable Security with ZAP

**accessible, intuitive, flexible**

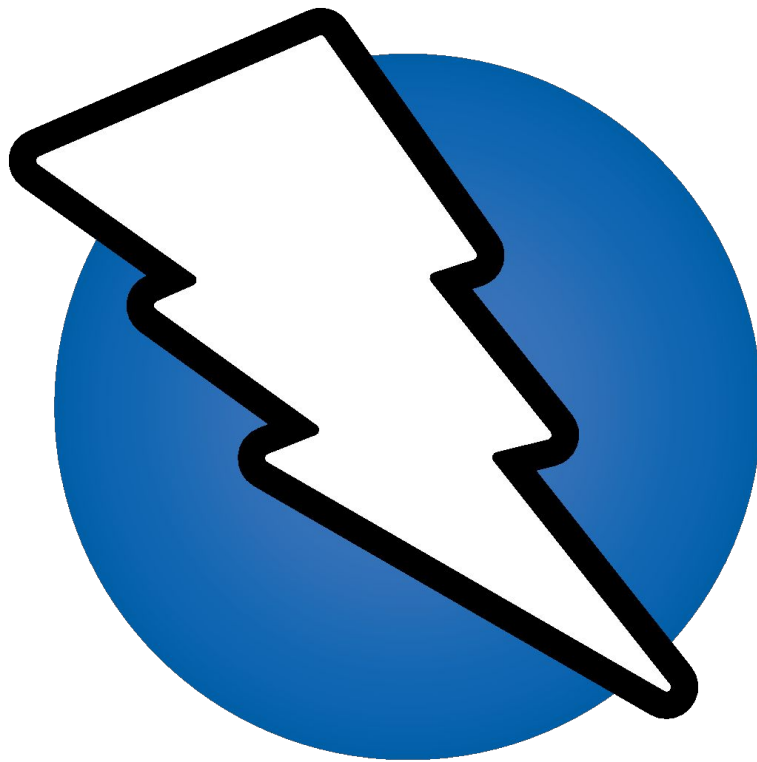
**Usable software leads  
to a more effective organization.**

Usable **security** software leads  
to a more **secure** organization.

**Enabling developers to use security tools will improve the security of your organization.**

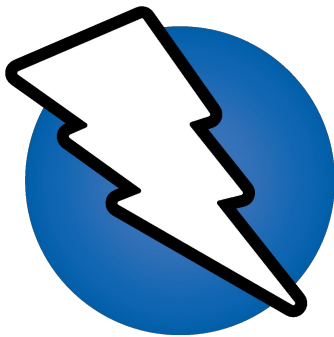
Is your new feature vulnerable to XSS?

# Zed Attack Proxy (ZAP)





GET  
juiceshop.org



GET  
juiceshop.org

A screenshot of the OWASP Juice Shop v7.2.1 web application running in a Mozilla Firefox browser. The browser address bar shows 'localhost:3000/#/search'. The page features a navigation bar with 'Login', 'English', a search bar, and 'Contact Us'. Below the navigation is an 'About Us' link. The main content area is titled 'All Products' and contains a table of items.

Image	Product	Description	Price	
	Apple Juice (1000ml)	The all-time classic.	1.99	
	Apple Pomace	Finest pressings of apples. Allergy disclaimer: Might contain traces of worms. Can be sent back to us for recycling.	0.89	
	Banana Juice (1000ml)	Monkeys love it the most.	1.99	
	Carrot Juice (1000ml)	As the old German saying goes: "Carrots are good for the eyes. Or has anyone ever seen a rabbit with glasses?"	2.99	
	Eggfruit Juice (500ml)	Now with even more exotic flavour.	8.99	
	Fruit Press	Fruits go in. Juice comes out. Pomace you can send back to us for recycling purposes.	89.99	

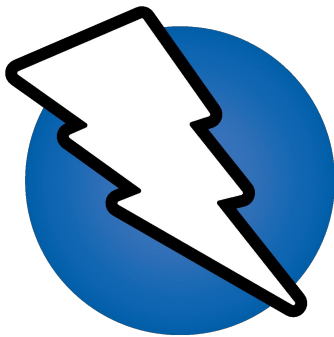




GET  
juiceshop.org



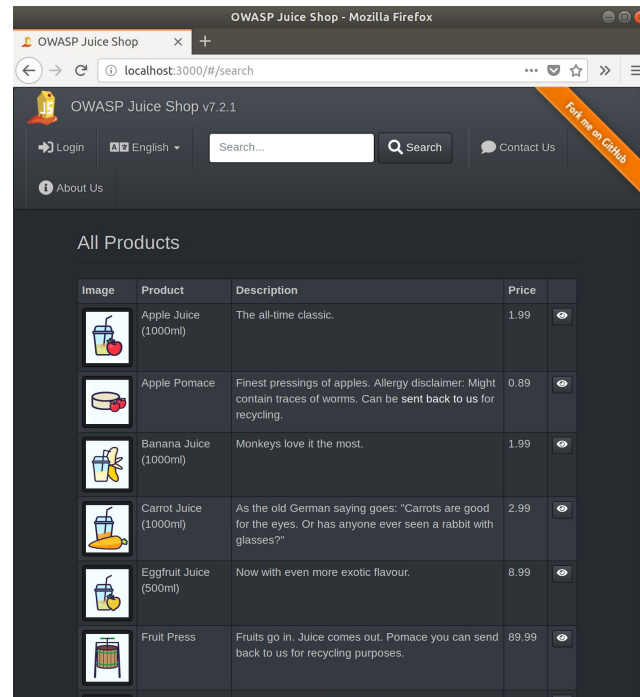
```
<html>
<body>
...
</body>
</html>
```



GET  
juiceshop.org



```
<html>
<body>
...
</body>
</html>
```





# Zed Attack Proxy (ZAP)

- Intercept requests
- Replay requests
- Spider sites
- Fuzz requests
- Passive Scanning
- Active Scanning
  - Command Injection
  - SQLi
  - Remote File Inclusion
  - XSS
  - Redirects
- Encoding/Decoding
- Automation & API
- Scripting
- Robust Add-On Ecosystem
- Automated Authentication & Sessions



The screenshot displays the OWASP ZAP Dev Build interface. The top window shows a request and response for a GET request to `http://localhost:3000/node_modules/angular-tooltips/dist/angular-tooltips.min.js HTTP/1.1`. The response includes headers such as `User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:61.0) Gecko/20100101 Firefox/61.0` and cookies.

The bottom window shows a history table with the following columns: Id, Req. Timestamp, Meth..., URL, Co..., Reason, R..., Size Resp. Bo..., Highest Al..., No..., and Tags.

Id	Req. Timestamp	Meth...	URL	Co...	Reason	R...	Size Resp. Bo...	Highest Al...	No...	Tags
409	7/21/18 12:20:43	GET	http://localhost:3000/node_modules/angu...	200	OK	6	9,552 bytes			Comment
408	7/21/18 12:20:43	GET	http://localhost:3000/node_modules/angu...	200	OK	7	5,613 bytes			Comment
406	7/21/18 12:20:43	GET	http://localhost:3000/node_modules/angu...	200	OK	4	241,187 bytes			Informational
415	7/21/18 12:20:43	GET	http://localhost:3000/node_modules/cooki...	200	OK	9	19,837 bytes			Comment
410	7/21/18 12:20:43	GET	http://localhost:3000/node_modules/angu...	200	OK	7	1,480 bytes			Comment
419	7/21/18 12:20:43	GET	http://localhost:3000/socket.io/?EIO=3&tr...	200	OK	2	103 bytes			Low
421	7/21/18 12:20:43	GET	http://localhost:3000/18n/en_json	200	OK	4	7,406 bytes			JSON
420	7/21/18 12:20:43	GET	http://localhost:3000/rest/admin/applicati...	200	OK	4	19 bytes			JSON
422	7/21/18 12:20:43	GET	http://localhost:3000/rest/admin/applicati...	200	OK	7	9,086 bytes			JSON
423	7/21/18 12:20:43	GET	http://localhost:3000/rest/admin/applicati...	200	OK	7	9,086 bytes			JSON
424	7/21/18 12:20:43	GET	http://localhost:3000/rest/admin/applicati...	200	OK	8	19 bytes			JSON
426	7/21/18 12:20:43	GET	http://localhost:3000/rest/user/whoami	200	OK	8	11 bytes			JSON
425	7/21/18 12:20:43	GET	http://localhost:3000/rest/user/whoami	200	OK	8	11 bytes			JSON
427	7/21/18 12:20:43	GET	http://localhost:3000/rest/admin/applicati...	304	Not Mod...	9	0 bytes			
428	7/21/18 12:20:43	GET	http://localhost:3000/18n/en_US_json	200	OK	2	10,614 bytes			Medium
430	7/21/18 12:20:43	GET	http://localhost:3000/socket.io/?EIO=3&tr...	101	Switch...	1	0 bytes			Medium
431	7/21/18 12:20:43	GET	http://localhost:3000/api/Challenges?na...	200	OK	2	551 bytes			JSON
433	7/21/18 12:20:43	GET	http://localhost:3000/rest/product/search?	200	OK	2	9,139 bytes			JSON
432	7/21/18 12:20:43	GET	http://localhost:3000/api/Challenges?na...	200	OK	2	551 bytes			JSON
438	7/21/18 12:20:43	GET	http://localhost:3000/socket.io/?EIO=3&tr...	200	OK	2	3 bytes			Medium
461	7/21/18 12:37:32	GET	https://safebrowsing.googleapis.com/v4/t...	200	OK	1	3,077 bytes			SetCookie

MCP SPD

VOR/LOC

5



G/S

FD



1480  
REF

GS 150  
HDG 274  
CRS 283

DME 3.7  
ILS1

-10 L -10

-700 US



1.6 NM



6000  
5800

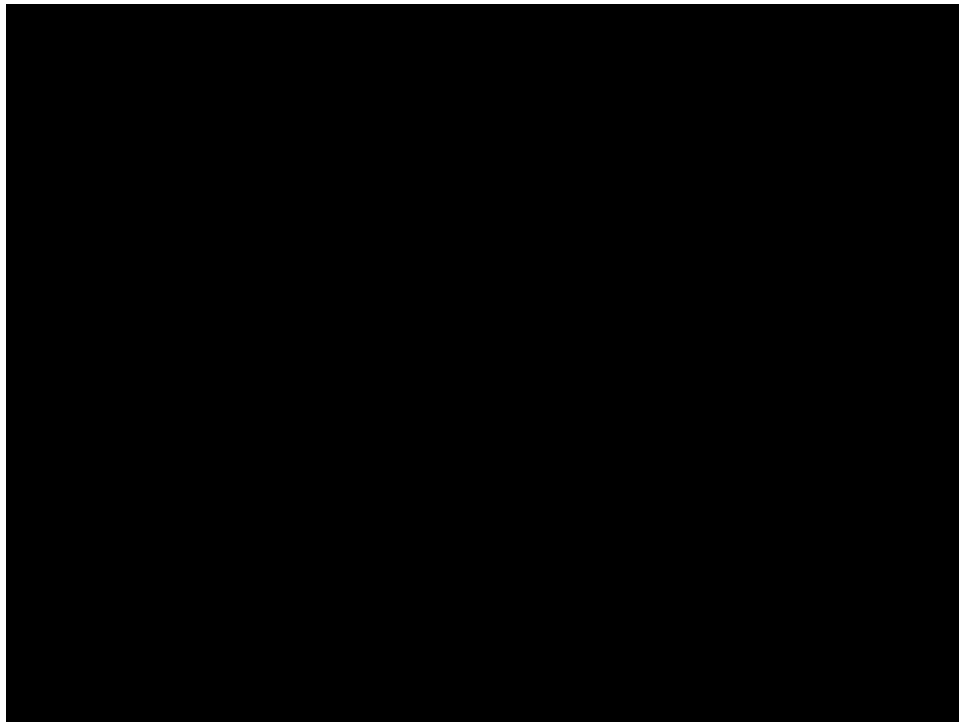




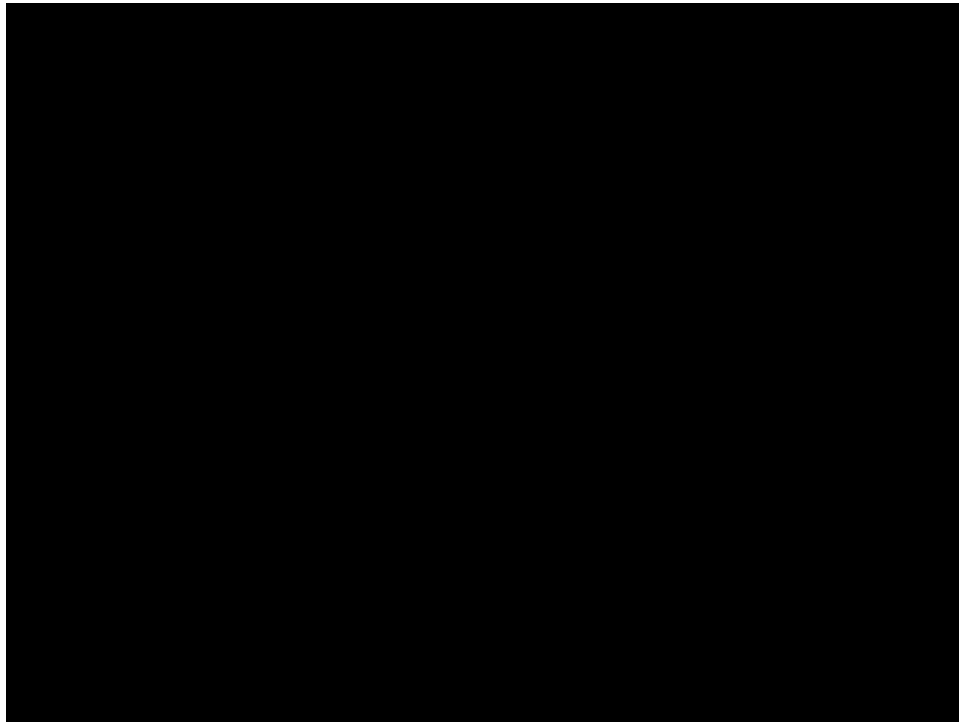
# ZAP Heads Up Display (HUD)



# Demo

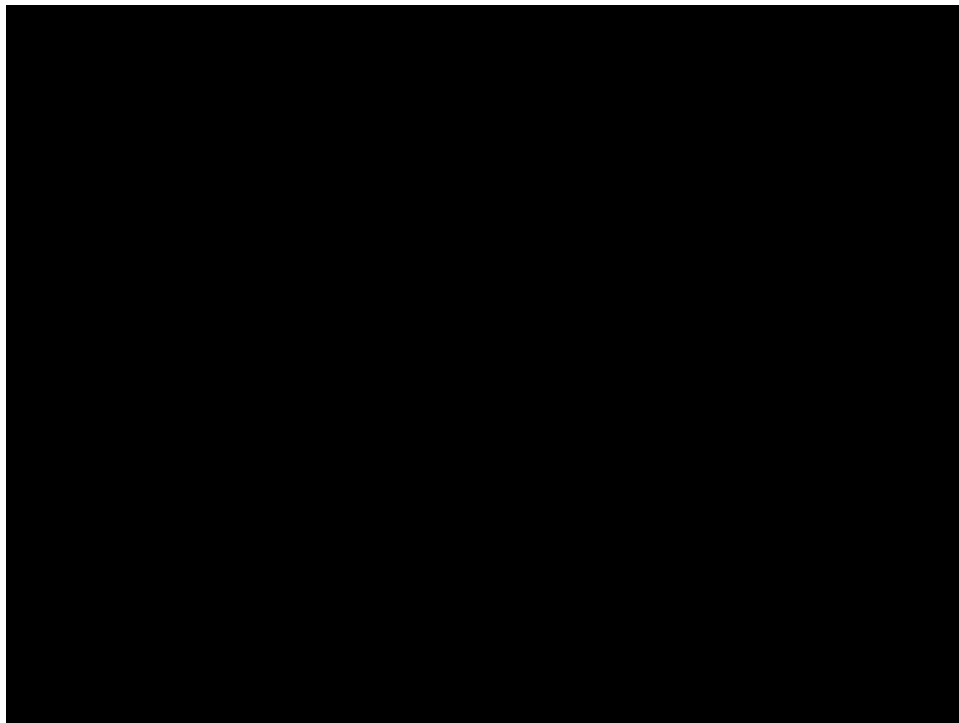


# Demo

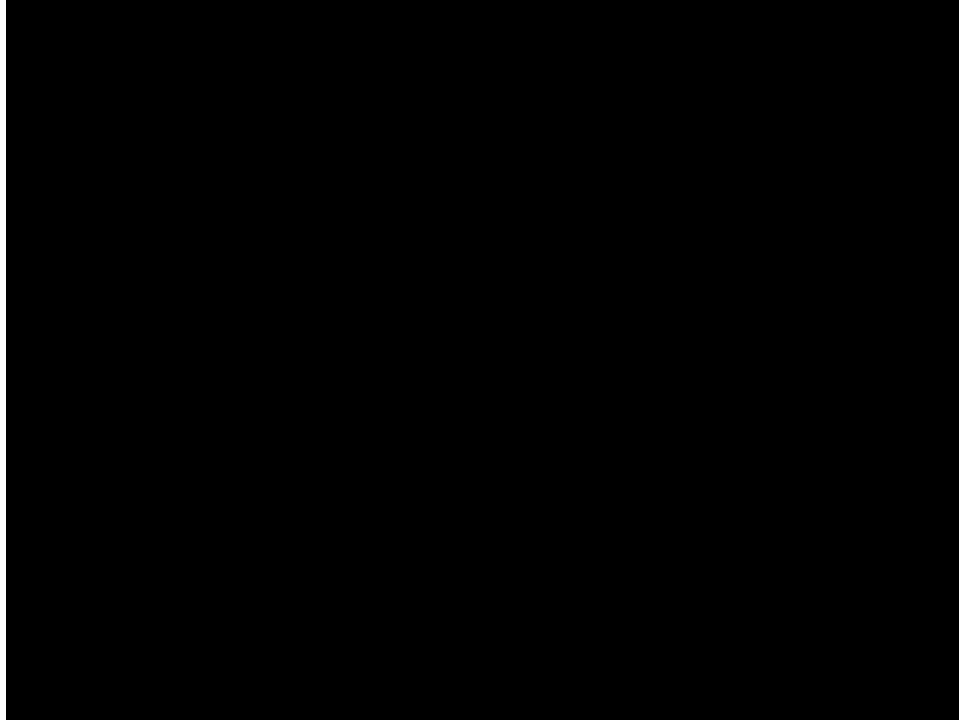




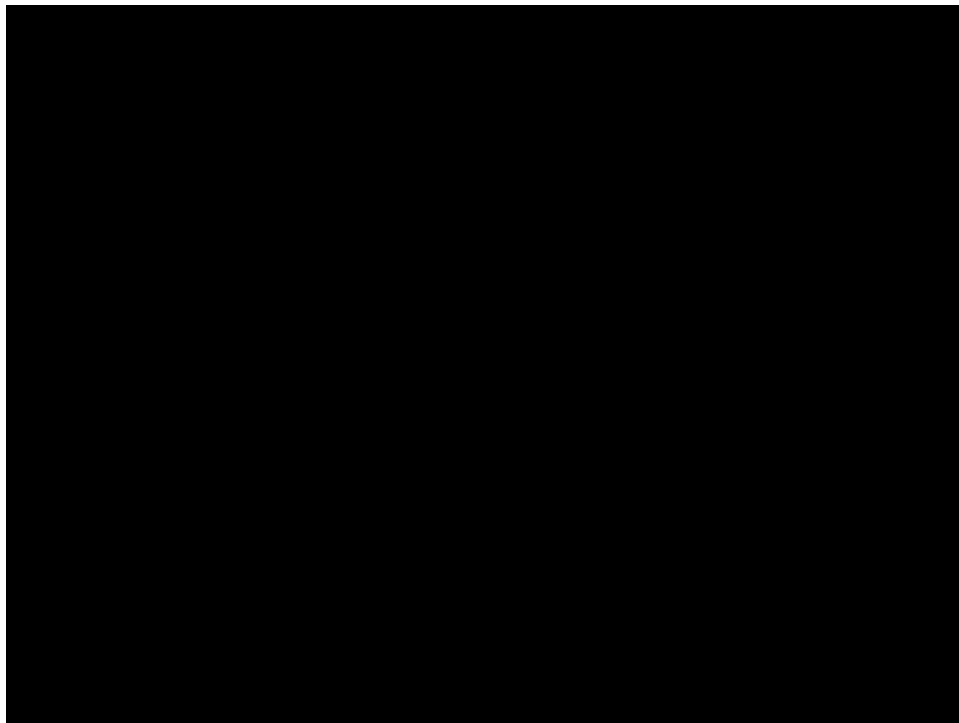
# Demo



# Demo



# Demo

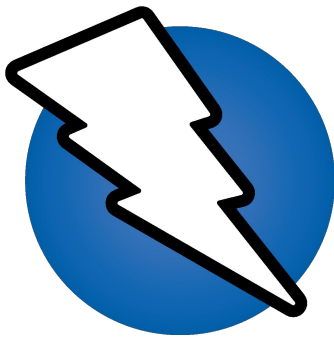


# So how does it work?





GET  
juiceshop.org



GET  
juiceshop.org

A screenshot of a web browser displaying the OWASP Juice Shop v7.2.1 application. The browser address bar shows 'localhost:3000/#/search'. The page features a navigation bar with 'Login', 'English', a search bar, and 'Contact Us'. Below the navigation is a table of products.

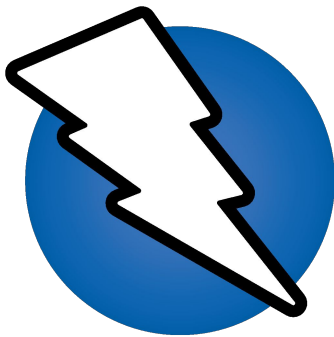
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GET  
juiceshop.org



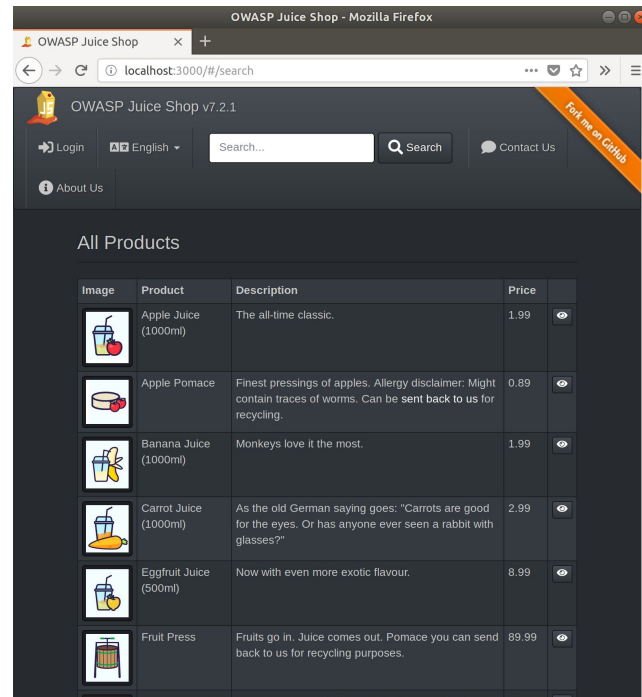
```
<html>
<body>
...
</body>
</html>
```



GET  
juiceshop.org



```
<html>
<body>
...
</body>
</html>
```





GET  
juiceshop.org



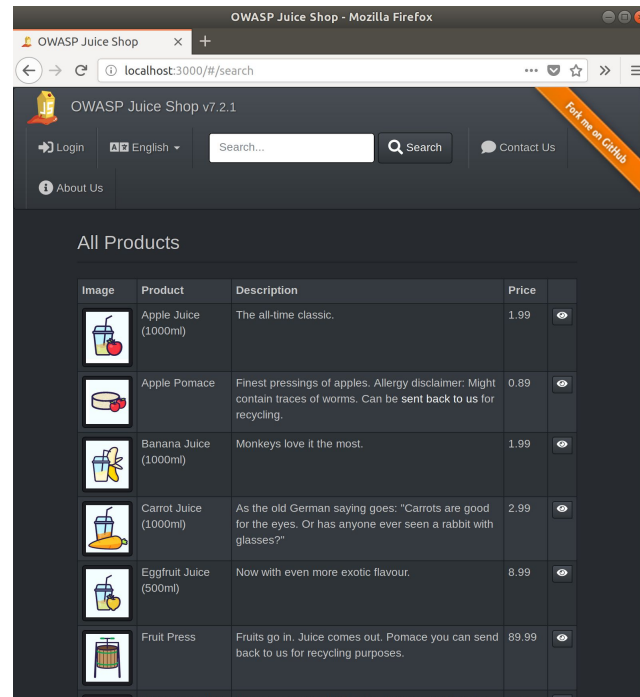
```
<html>
<body>
...
</body>
</html>
```



GET  
juiceshop.org



```
<html>
<body>
...
</body>
</html>
```







GET  
juiceshop.org



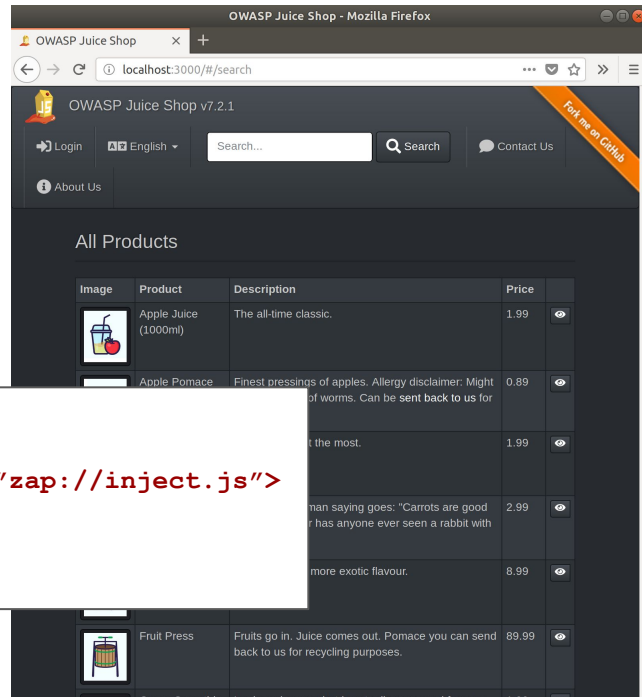
```
<html>
<body>
...
</body>
</html>
```



GET  
juiceshop.org



```
<html>
<body>
<script src="zap://inject.js">
</script>
</body>
</html>
```



# injected script

```
57     "content": { "message": "This website uses fruit cookies to ensure you get the juiciest tracking experience.", "dismiss":  
58     }));  
59 </script>  
60  
61 <script src="dist/juice-shop.min.js"></script>  
62  
63 </head>  
64  
65 <body ng-cloak translate-cloak><script src="https://localhost:3000/zapCallBackUrl/1948308960198560761?zapfile=inject.js"></script>  
66  
67  
68 <nav class="navbar navbar-default" role="navigation">  
69   <div class="container-fluid" ng-controller="NavbarController">  
70     <div class="navbar-header">
```

# javascript closure

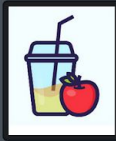



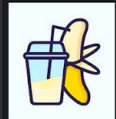





```
(function () {  
    // ... all vars and functions are in this scope only  
    // still maintains access to all globals  
})();
```

# iframes

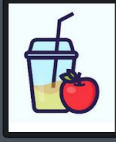



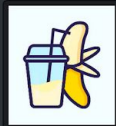





```
<!DOCTYPE html>
<!--[if lt IE 7]> <html lang="en" ng-app="juiceShop" class="no-js lt-ie9 lt-ie8 lt-ie7"> <![endif-->
<!--[if IE 7]> <html lang="en" ng-app="juiceShop" class="no-js lt-ie9 lt-ie8"> <![endif-->
<!--[if IE 8]> <html lang="en" ng-app="juiceShop" class="no-js lt-ie9"> <![endif-->
<!--[if gt IE 8]><!-->
<!--suppress HtmlUnknownAnchorTarget-->
<html class="no-js ng-scope fontawesome-i2svg-active fontawesome-i2svg-complete" ng-app="juiceShop" lang="en">
  <!--<![endif-->
  <head>
  <body class="" translate-cloak="" style="margin-bottom: 50px;">
    <div class="cc-window cc-floating cc-type-info cc-theme-classic cc-bottom cc-right cc-color-override--472785858 cc-invisible" role="dialog" aria-live="polite" aria-label="cookieconsent" aria-describedby="cookieconsent:desc" style="display: none;">
      <script src="https://localhost:3000/zapCallBackUrl/1948308960198560761?zapfile=inject.is"></script>
    <iframe id="management" src="https://zap//zapCallBackUrl/-3885980986985264296?name=management.html" scrolling="no" style="position: fixed; right: 0px; bottom: 50px; width:28px; height: 28px; border: medium none; overflow: hidden; z-index: 2147483647">
    <iframe id="left-panel" src="https://zap//zapCallBackUrl/-3885980986985264296?name=panel.html&url=https://localhost:3000&orientation=left" scrolling="no" style="position: fixed; border: medium none; top: 30%; border: medi...left: 0px; width: 110px; height: 300px; z-index: 2147483646;">
    <iframe id="right-panel" src="https://zap//zapCallBackUrl/-3885980986985264296?name=panel.html&url=https://localhost:3000&orientation=right" scrolling="no" style="position: fixed; border: medium none; top: 30%; overflow: hi...ight: 0px; width: 110px; height: 300px; z-index: 2147483646;">
    <iframe id="bottom-drawer" src="https://zap//zapCallBackUrl/-3885980986985264296?name=drawer.html" scrolling="no" style="position: fixed; border: medium none; overflow: hidden; left...bottom: 0px; width: 100%; height: 50px; z-index: 2147483646;">
    <iframe id="main-display" src="https://zap//zapCallBackUrl/-3885980986985264296?name=display.html" style="position: fixed; right: 0px; top: 0px; width: 100%; height: 100%; border: 0px none; display: none; z-index: 2147483647;">
    <iframe id="growler-alerts" src="https://zap//zapCallBackUrl/-3885980986985264296?name=growlerAlerts.html" style="position: fixed; right: 0px; bottom: 0px; width: 500px; height: 0px; border: 0px none; z-index: 2147483647;">
  <nav class="navbar navbar-default" role="navigation">
  <h1 class="hidden ng-binding" ng-bind="appName">0WASP Juice Shop</h1>
  <!--for SEO-->
  <div class="container ng-scope" ng-controller="ServerStartedNotificationController">
  <div class="container ng-scope" ng-controller="ChallengeSolvedNotificationController">
  <!--ngView-->
  <main class="container-fluid ng-scope" ng-view="">
  <a ng-show="gitHubRibbon" href="/redirect?to=https://github.com/bkminnich/juice-shop">
</body>
</html>
```

Fork me on GitHub

## All Products

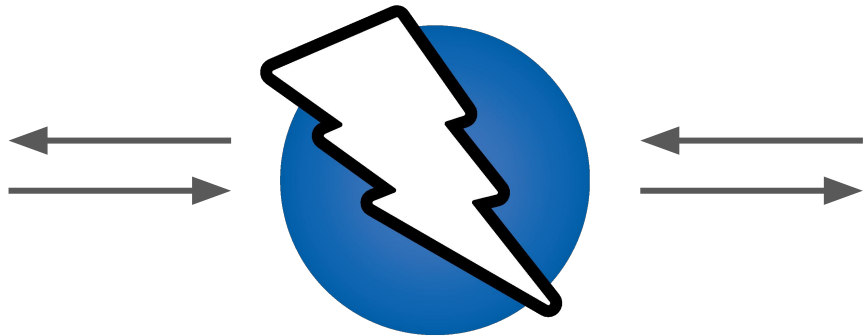
Image	Product	Description	Price	
	Apple Juice (1000ml)	The all-time classic.	1.99	
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- Out
- Off
- 0
- 0
- 1
- 2
- 0
- +

- Sites
- Start
- Start
- Off
- 0
- 2
- 4
- 2
- +



OWASP Juice Shop - Mozilla Firefox

OWASP Juice Shop v7.2.1

Search... Search

Contact Us

About Us

### All Products

Image	Product	Description	Price	
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History <sup>15</sup>

Out, Off, 0, 0, 1, 2, 0, +

Sites, Start, Start, Off, 0, 2, 4, 2, +





The BodgeIt Store

localhost:8085/bodgeit/

File Edit View Analyse Report Tools Online Help

Standard Mode

Quick Start Request Response Break

Method Header: Text Body: Text

GET http://localhost:8085/bodgeit/home.jsp HTTP/1.1
Host: localhost:8085
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86\_64; rv:62.0) Gecko/20100101 Firefox/62.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8
Accept-Language: en-US,en;q=0.5
Referer: http://localhost:8085/bodgeit/
Cookie: b\_id=2; JSESSIONID=A5C9AFE7421A7ED6A619FA714034CAAFc;ajs\_group\_id=null;ajs\_anonymous\_id=%2280ac8fe5-dee6-4789-bb14-1090a315247a%22;\_stripe\_mid=41e14119-f948-46fe-8be6-9007e1ddbc30;ajs\_user\_id=%22yLXD7pLH1G%22;cookieconsent\_status=dismiss;io=KNFDiXQwK8d8NVTBAAAD
Connection: keep-alive

History Search Alerts Output WebSockets Spider Active Scan
Filter: OFF Export

Id Req. Timestamp Meth... URL Co... Reason R... Size Resp. Bo... Highest Al... No... Tags

Table with columns: Id, Req. Timestamp, Meth..., URL, Co..., Reason, R..., Size Resp., Bo..., Highest Al..., No..., Tags. The table is currently empty.

# The BodgeIt Store

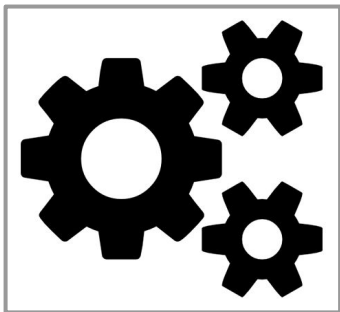
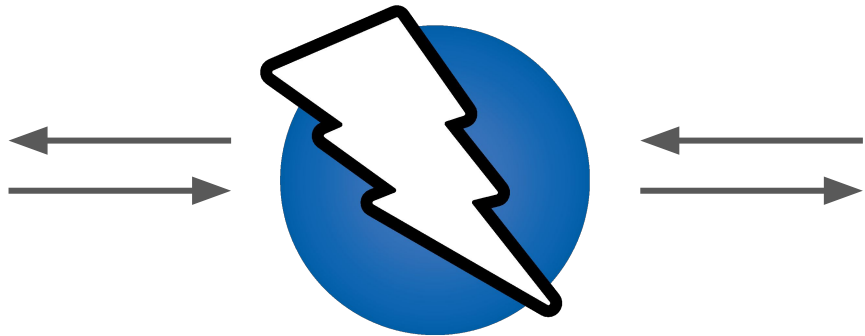
We bodge it, so you dont have to! Guest user

[Home](#) [About Us](#) [Contact Us](#) [Login](#) [Your Basket](#) [Search](#)

## Our Best Deals!

Product	Type	Price
<a href="#">GZ XT4</a>	Gizmos	£4.45
<a href="#">GZ K77</a>	Gizmos	£3.05
<a href="#">Bonzo dog doo dah</a>	Doodahs	£2.45
<a href="#">Thingie 2</a>	Thingies	£3.20
<a href="#">Whatsit called</a>	Whatsits	£4.10
<a href="#">Mindblank</a>	Whatchamacallits	£1.00
<a href="#">GZ FZ8</a>	Gizmos	£1.00
<a href="#">Whatsit weigh</a>	Whatsits	£2.50
<a href="#">Mindblank</a>	Whatchamacallits	£1.00
<a href="#">GZ XT4</a>	Gizmos	£4.45

Waiting for localhost...



Service Worker



OWASP Juice Shop - Mozilla Firefox

OWASP Juice Shop v7.2.1

https://localhost:3000/#/search

Login English Search... Search Contact Us About Us

Fork me on GitHub

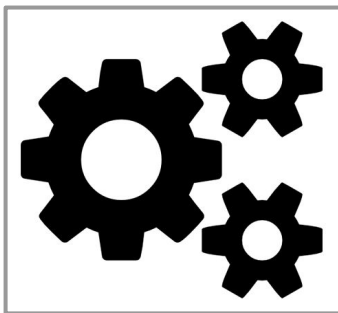
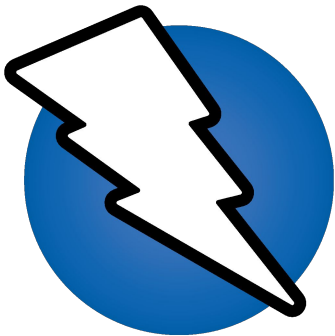
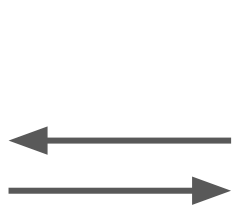
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History <sup>15</sup>

Out Off 0 0 1 2 0 +

Sites Start Start Off 0 2 4 2 +



Service Worker



OWASP Juice Shop - Mozilla Firefox

OWASP Juice Shop v7.2.1

Search... Search

Contact Us

About Us

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	Eggfruit Juice (500ml)	Now with even more exotic flavour.	8.99	
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History <sup>15</sup>

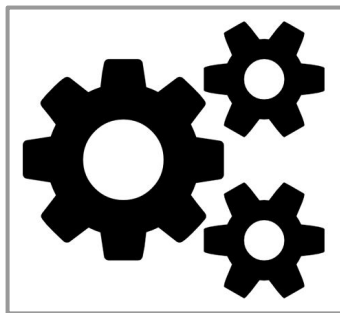
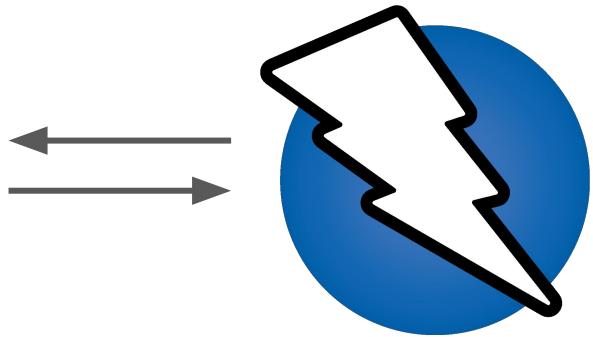
Out

- Off
- 0
- 0
- 1
- 2
- 0
- +

Sites

- Start
- Start
- Off
- 0
- 2
- 4
- 2
- +

postMessage



Service Worker



postMessage

OWASP Juice Shop - Mozilla Firefox

OWASP Juice Shop v7.2.1

inject.js

Search... Search

Contact Us

About Us

All Products

Image	Product	Description	Price	
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	Apple Pomace	Finest pressings of apples. Allergy disclaimer: Might contain traces of worms. Can be sent back to us for recycling.	0.89	
	Banana Juice (1000ml)	Monkeys love it the most.	1.99	
	Carrot Juice (1000ml)	As the old German saying goes: "Carrots are good for the eyes. Or has anyone ever seen a rabbit with glasses?"	2.99	
	Eggfruit Juice (500ml)	Now with even more exotic flavour.	8.99	
	Fruit Press	Fruits go in. Juice comes out. Pomace you can send back to us for recycling purposes.	89.99	

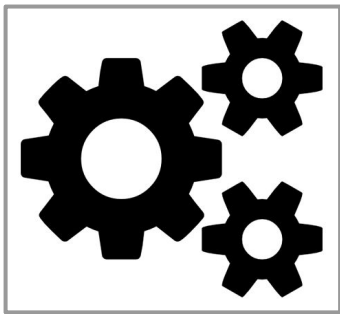
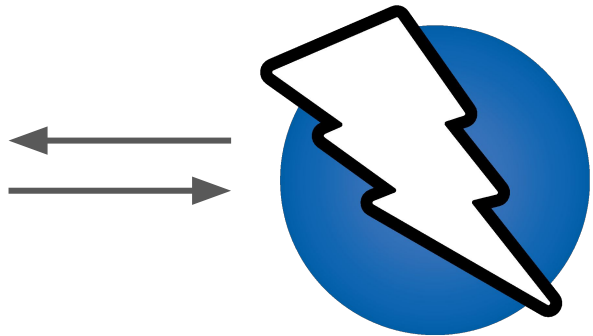
History 15

Out

- Off
- 0
- 0
- 1
- 2
- 0
- +

Sites

- Start
- Start
- Off
- 0
- 2
- 4
- 2
- +



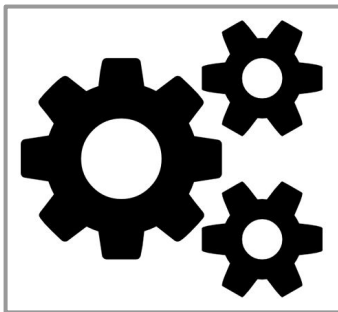
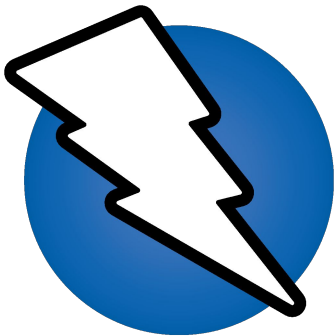
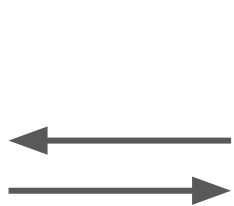
Service Worker



postMessage

A screenshot of the OWASP Juice Shop v7.2.1 application running in a Mozilla Firefox browser. The browser address bar shows 'https://localhost:3000/#/search'. The page title is 'OWASP Juice Shop v7.2.1'. A search bar contains the text 'inject.js'. The main content area is titled 'All Products' and displays a table of products. The table has columns for 'Image', 'Product', 'Description', 'Price', and an eye icon. The products listed are Apple Juice (1000ml), Apple Pomace, Banana Juice (1000ml), Carrot Juice (1000ml), Eggfruit Juice (500ml), and Fruit Press. On the left and right sides of the product table, there are vertical panels with various icons and a '+' button, both highlighted with red boxes. An arrow points from the 'inject.js' search bar to the top-right panel. Another arrow points from the 'postMessage' text to the bottom-right panel. A 'History 15' indicator is visible at the bottom left of the browser window.

Image	Product	Description	Price	
	Apple Juice (1000ml)	The all-time classic.	1.99	
	Apple Pomace	Finest pressings of apples. Allergy disclaimer: Might contain traces of worms. Can be sent back to us for recycling.	0.89	
	Banana Juice (1000ml)	Monkeys love it the most.	1.99	
	Carrot Juice (1000ml)	As the old German saying goes: "Carrots are good for the eyes. Or has anyone ever seen a rabbit with glasses?"	2.99	
	Eggfruit Juice (500ml)	Now with even more exotic flavour.	8.99	
	Fruit Press	Fruits go in. Juice comes out. Pomace you can send back to us for recycling purposes.	89.99	



Service Worker



OWASP Juice Shop - Mozilla Firefox

OWASP Juice Shop v7.2.1

inject.js

Search...

All Products

Image	Product	Description	Price
	Apple Juice (1000ml)	The all-time classic.	1.99
	Apple Pomace	Finest pressings of apples. Allergy disclaimer: Might contain traces of worms. Can be sent back to us for recycling.	0.89
	Banana Juice (1000ml)	Monkeys love it the most.	1.99
	Carrot Juice (1000ml)	As the old German saying goes: "Carrots are good for the eyes. Or has anyone ever seen a rabbit with glasses?"	2.99
	Eggfruit Juice (500ml)	Now with even more exotic flavour.	8.99
	Fruit Press	Fruits go in. Juice comes out. Pomace you can send back to us for recycling purposes.	89.99

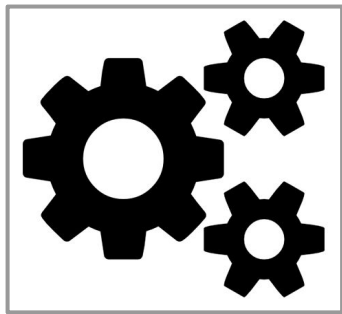
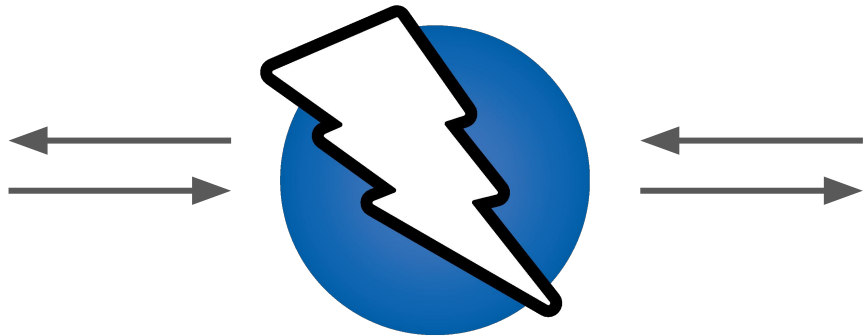
postMessage

History 15

Out, Off, 0, 0, 1, 2, 0, +

Sites, Start, Start, Off, 0, 2, 4, 2, +

Fork me on GitHub



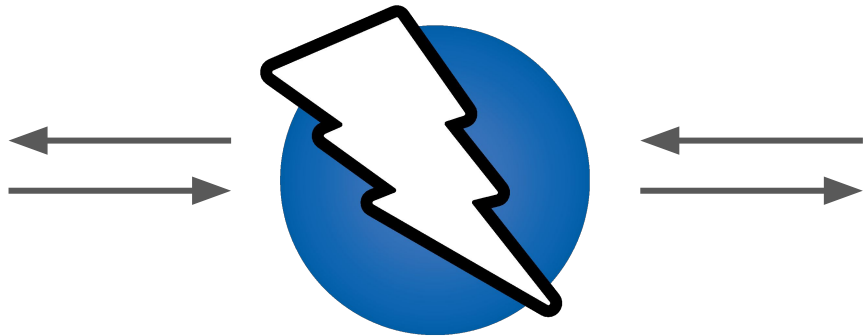
Service Worker

ZAP API

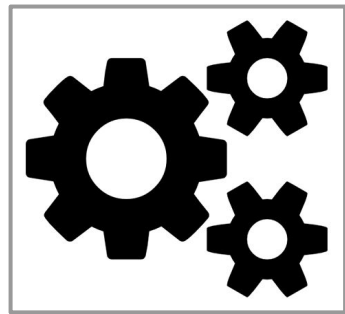
postMessage

The screenshot shows the OWASP Juice Shop v7.2.1 application in a Mozilla Firefox browser window. The URL is `https://localhost:3000/#/search`. The page features a search bar with the text "inject.js" entered, a "Login" button, and a "Search" button. Below the search bar is a "All Products" section with a table of items. A red box highlights the "Out" sidebar on the left and the "Sites" sidebar on the right. A "Service Worker" box with gears is overlaid on the bottom left, with arrows labeled "ZAP API" and "postMessage" pointing to the browser interface.

Image	Product	Description	Price
	Apple Juice (1000ml)	The all-time classic.	1.99
	Apple Pomace	Finest pressings of apples. Allergy disclaimer: Might contain traces of worms. Can be sent back to us for recycling.	0.89
	Banana Juice (1000ml)	Monkeys love it the most.	1.99
	Carrot Juice (1000ml)	As the old German saying goes: "Carrots are good for the eyes. Or has anyone ever seen a rabbit with glasses?"	2.99
	Eggfruit Juice (500ml)	Now with even more exotic flavour.	8.99
	Fruit Press	Fruits go in. Juice comes out. Pomace you can send back to us for recycling purposes.	89.99



Web Sockets  
ZAP API



Service Worker

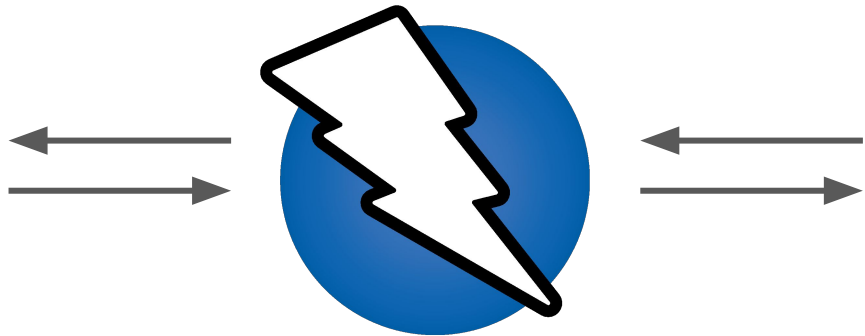
OWASP Juice Shop - Mozilla Firefox  
OWASP Juice Shop v7.2.1  
inject.js  
Login English Search... Search Contact Us About Us  
All Products  
Table with columns: Image, Product, Description, Price, and an eye icon. Products listed include Apple Juice, Apple Pomace, Banana Juice, Carrot Juice, Eggfruit Juice, and Fruit Press.  
History 15

History 15



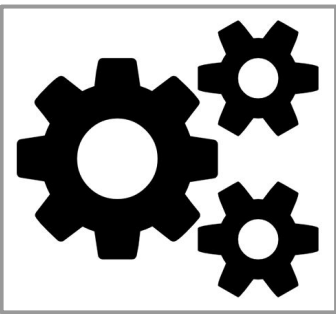
History 15





Web Sockets

ZAP API



Service Worker

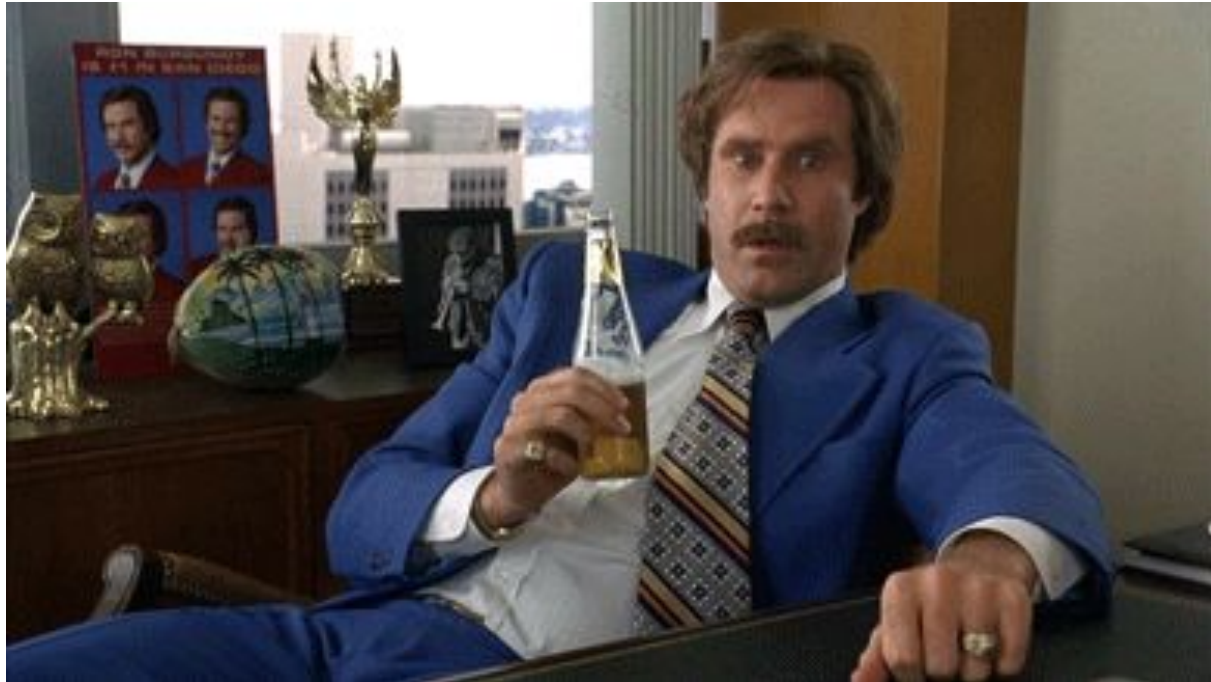
OWASP Juice Shop v7.2.1

inject.js

Image	Product	Description	Price
	Apple Juice (1000ml)	The all-time classic.	1.99
	Apple Pomace	Finest pressings of apples. Allergy disclaimer: Might contain traces of worms. Can be sent back to us for recycling.	0.89
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	Fruit Press	Fruits go in. Juice comes out. Pomace you can send back to us for recycling purposes.	89.99

indexedb

Segment



Is your new feature vulnerable to XSS?

# So now what?

Want to help build the HUD?

Reach out!



Want to support the HUD?

Share!



# Want to play with the HUD?

Alpha release (\*hopefully\*)

**Monday**

Available in Weekly Release

Or

AddOn Marketplace



**Keep up with the HUD**

**@david\_scrobonia**

**@zaproxy**

**Questions?**