Developer Report

Acunetix Security Audit

2026-02-12

Scan of 172.17.0.123:8081

Scan details

Scan information	
Start time	2025-03-31T16:26:11.333004-05:00
Start url	http://172.17.0.123:8081/openmrs-standalone/login.htm
Host	172.17.0.123:8081
Scan time	18 minutes, 33 seconds
Profile	Full Scan
Server information	Apache Tomcat/7.0.50
Responsive	True
Server OS	Unknown
Server technologies	Java/J2EE,Java/J2EE
Application build	23.7.230728157

Threat level

Acunetix Threat Level 2

One or more medium-severity type vulnerabilities have been discovered by the scanner. You should investigate each of these vulnerabilities to ensure they will not escalate to more severe problems.

Alerts distribution

Total alerts found	22
❗ High	0
⚠ Medium	10
ⓘ Low	4
ⓘ Informational	8

Alerts summary

⚠ Application error messages

Classification	
CVSS3	CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N Base Score: 5.3 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: None Scope: Unchanged Confidentiality Impact: Low Integrity Impact: None Availability Impact: None
CVSS2	Base Score: 5.0 Access Vector: Network_accessible Access Complexity: Low Authentication: None Confidentiality Impact: Partial Integrity Impact: None Availability Impact: None Exploitability: Not_defined Remediation Level: Not_defined Report Confidence: Not_defined Availability Requirement: Not_defined Collateral Damage Potential: Not_defined Confidentiality Requirement: Not_defined Integrity Requirement: Not_defined Target Distribution: Not_defined
CWE	CWE-209

Affected items	Variation
Web Server	1

⚠ Unencrypted connection

Classification	
CVSS3	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:L/I:L/A:N Base Score: 5.4 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: Required Scope: Unchanged Confidentiality Impact: Low Integrity Impact: Low Availability Impact: None

CVSS2	Base Score: 5.8 Access Vector: Network_accessible Access Complexity: Medium Authentication: None Confidentiality Impact: Partial Integrity Impact: Partial Availability Impact: None Exploitability: Not_defined Remediation Level: Not_defined Report Confidence: Not_defined Availability Requirement: Not_defined Collateral Damage Potential: Not_defined Confidentiality Requirement: Not_defined Integrity Requirement: Not_defined Target Distribution: Not_defined	
CWE	CWE-319	
Affected items		Variation
[Web Server](#)		1

⚠ User credentials are sent in clear text

Classification		
CVSS3	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:L/I:N/A:N Base Score: 4.3 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: Required Scope: Unchanged Confidentiality Impact: Low Integrity Impact: None Availability Impact: None	
CVSS2	Base Score: 5.0 Access Vector: Network_accessible Access Complexity: Low Authentication: None Confidentiality Impact: Partial Integrity Impact: None Availability Impact: None Exploitability: Not_defined Remediation Level: Not_defined Report Confidence: Not_defined Availability Requirement: Not_defined Collateral Damage Potential: Not_defined Confidentiality Requirement: Not_defined Integrity Requirement: Not_defined Target Distribution: Not_defined	
CWE	CWE-523	
Affected items		Variation
[Web Server](#)		1

⚠ Vulnerable JavaScript libraries

Classification

CVSS3	CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:N Base Score: 6.5 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: None Scope: Unchanged Confidentiality Impact: Low Integrity Impact: Low Availability Impact: None
CVSS2	Base Score: 6.4 Access Vector: Network_accessible Access Complexity: Low Authentication: None Confidentiality Impact: Partial Integrity Impact: Partial Availability Impact: None Exploitability: Not_defined Remediation Level: Not_defined Report Confidence: Not_defined Availability Requirement: Not_defined Collateral Damage Potential: Not_defined Confidentiality Requirement: Not_defined Integrity Requirement: Not_defined Target Distribution: Not_defined
CWE	CWE-937

Affected items	Variation
[Web Server](#)	7

ⓘ Clickjacking: X-Frame-Options header

Classification	
CVSS3	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:L/A:N Base Score: 5.8 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: None Scope: Changed Confidentiality Impact: None Integrity Impact: Low Availability Impact: None
CVSS2	Base Score: 4.3 Access Vector: Network_accessible Access Complexity: Medium Authentication: None Confidentiality Impact: None Integrity Impact: Partial Availability Impact: None Exploitability: Not_defined Remediation Level: Not_defined Report Confidence: Not_defined Availability Requirement: Not_defined Collateral Damage Potential: Not_defined Confidentiality Requirement: Not_defined Integrity Requirement: Not_defined Target Distribution: Not_defined

CWE	CWE-1021	
Affected items		Variation
[Web Server](#)		1

ⓘ Cookies with missing, inconsistent or contradictory properties

Classification	
CVSS3	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:N Base Score: 0.0 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: Required Scope: Unchanged Confidentiality Impact: None Integrity Impact: None Availability Impact: None
CVSS2	Base Score: 0.0 Access Vector: Network_accessible Access Complexity: Low Authentication: None Confidentiality Impact: None Integrity Impact: None Availability Impact: None Exploitability: Not_defined Remediation Level: Not_defined Report Confidence: Not_defined Availability Requirement: Not_defined Collateral Damage Potential: Not_defined Confidentiality Requirement: Not_defined Integrity Requirement: Not_defined Target Distribution: Not_defined

CWE	CWE-284	
Affected items		Variation
[Web Server](#)		1

ⓘ Cookies without HttpOnly flag set

Classification	
CVSS3	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:N Base Score: 0.0 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: Required Scope: Unchanged Confidentiality Impact: None Integrity Impact: None Availability Impact: None

CVSS2	Base Score: 0.0 Access Vector: Network_accessible Access Complexity: Low Authentication: None Confidentiality Impact: None Integrity Impact: None Availability Impact: None Exploitability: Not_defined Remediation Level: Not_defined Report Confidence: Not_defined Availability Requirement: Not_defined Collateral Damage Potential: Not_defined Confidentiality Requirement: Not_defined Integrity Requirement: Not_defined Target Distribution: Not_defined	
CWE	CWE-1004	
Affected items		Variation
[Web Server](#)		1

ⓘ Stack Trace Disclosure (Tomcat)

Classification		
CVSS3	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:N Base Score: 0.0 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: None Scope: Changed Confidentiality Impact: None Integrity Impact: None Availability Impact: None	
CVSS2	Base Score: 0.0 Access Vector: Network_accessible Access Complexity: Low Authentication: None Confidentiality Impact: None Integrity Impact: None Availability Impact: None Exploitability: Not_defined Remediation Level: Not_defined Report Confidence: Not_defined Availability Requirement: Not_defined Collateral Damage Potential: Not_defined Confidentiality Requirement: Not_defined Integrity Requirement: Not_defined Target Distribution: Not_defined	
CWE	CWE-209	
Affected items		Variation
[Web Server](#)		1

ⓘ Content Security Policy (CSP) not implemented

Classification

CVSS3	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:N/I:N/A:N Base Score: 0.0 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: Required Scope: Changed Confidentiality Impact: None Integrity Impact: None Availability Impact: None
CVSS2	Base Score: 0.0 Access Vector: Network_accessible Access Complexity: Low Authentication: None Confidentiality Impact: None Integrity Impact: None Availability Impact: None Exploitability: Not_defined Remediation Level: Not_defined Report Confidence: Not_defined Availability Requirement: Not_defined Collateral Damage Potential: Not_defined Confidentiality Requirement: Not_defined Integrity Requirement: Not_defined Target Distribution: Not_defined
CWE	CWE-1021

Affected items	Variation
Web Server	1

ⓘ No HTTP Redirection

Classification	
CVSS3	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:N/I:N/A:N Base Score: 0.0 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: Required Scope: Changed Confidentiality Impact: None Integrity Impact: None Availability Impact: None
CVSS2	Base Score: 0.0 Access Vector: Network_accessible Access Complexity: Low Authentication: None Confidentiality Impact: None Integrity Impact: None Availability Impact: None Exploitability: Not_defined Remediation Level: Not_defined Report Confidence: Not_defined Availability Requirement: Not_defined Collateral Damage Potential: Not_defined Confidentiality Requirement: Not_defined Integrity Requirement: Not_defined Target Distribution: Not_defined

CWE	CWE-16	
Affected items		Variation
[Web Server](#)		1

ⓘ **Outdated JavaScript libraries**

Classification	
CVSS3	CVSS:3.1/AV:N/AC:H/PR:N/UI:R/S:C/C:N/I:N/A:N Base Score: 0.0 Attack Vector: Network Attack Complexity: High Privileges Required: None User Interaction: Required Scope: Changed Confidentiality Impact: None Integrity Impact: None Availability Impact: None
CVSS2	Base Score: 0.0 Access Vector: Network_accessible Access Complexity: High Authentication: None Confidentiality Impact: None Integrity Impact: None Availability Impact: None Exploitability: Not_defined Remediation Level: Not_defined Report Confidence: Not_defined Availability Requirement: Not_defined Collateral Damage Potential: Not_defined Confidentiality Requirement: Not_defined Integrity Requirement: Not_defined Target Distribution: Not_defined

CWE	CWE-937	
Affected items		Variation
[Web Server](#)		5

ⓘ **Permissions-Policy header not implemented**

Classification	
CVSS3	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:C/C:N/I:N/A:N Base Score: 0.0 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: Required Scope: Changed Confidentiality Impact: None Integrity Impact: None Availability Impact: None

CVSS2	Base Score: 0.0 Access Vector: Network_accessible Access Complexity: Low Authentication: None Confidentiality Impact: None Integrity Impact: None Availability Impact: None Exploitability: Not_defined Remediation Level: Not_defined Report Confidence: Not_defined Availability Requirement: Not_defined Collateral Damage Potential: Not_defined Confidentiality Requirement: Not_defined Integrity Requirement: Not_defined Target Distribution: Not_defined	
CWE	CWE-1021	
Affected items		Variation
[Web Server](#)		1

Alerts details

⚠ Application error messages

Severity	**Medium**
Reported by module	/httpdata/text_search.js

Description

This alert requires manual confirmation

Acunetix found one or more error/warning messages. Application error or warning messages may expose sensitive information about an application's internal workings to an attacker.
These messages may also contain the location of the file that produced an unhandled exception.
Consult the 'Attack details' section for more information about the affected page(s).

Impact

Error messages may disclose sensitive information which can be used to escalate attacks.

Recommendation

Verify that these page(s) are disclosing error or warning messages and properly configure the application to log errors to a file instead of displaying the error to the user.

References

PHP Runtime Configuration (https://www.php.net/manual/en/errorfunc.configuration.php#ini.display-errors)
Improper Error Handling (https://www.owasp.org/index.php/Improper_Error_Handling)

Affected items

Web Server
Details

Application error messages:

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/*/
  java.io.FileNotFoundException:

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/*/
  org.openmrs.module.uiframework.ResourceServlet.doGet(ResourceServlet.java:78)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:635)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:728)
  org.openmrs.module.web.ModuleServlet.service(ModuleServlet.java:71)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:728)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:73)
  org.openmrs.module.owa.filter.OwaFilter.doFilter(OwaFilter.java:93)
  org.openmrs.module.owa.filter.OwaFilter.doFilter(OwaFilter.java:61)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:71)
  org.openmrs.module.spa.filter.SpaFilter.doFilter(SpaFilter.java:53)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:71)
  org.openmrs.module.web.filter.ModuleFilter.doFilter(ModuleFilter.java:57)
  org.openmrs.web.filter.OpenmrsFilter.doFilterInternal(OpenmrsFilter.java:105)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)
  org.springframework.orm.hibernate5.support.OpenSessionInViewFilter.doFilterInternal(OpenSessionInView Filter.java:156)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:201)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/*/
  Exception report</p><p>message <u>C:\Users\Carlos\Downloads\referenceapplication-standalone-2.12.2\appdata\configuration (Access is denied)</u></p><p>description <u>The server encountered an internal error that prevented it from fulfilling this request.</u></p><p>exception <pre>java.io.FileNotFoundException: C:\Users\Carlos\Downloads\referenceapplication-standalone-2.12.2\appdata\configuration (Access is denied) java.io.FileInputStream.open0(Native Method) java.io.FileInputStream.open(FileInputStream.java:195) java.io.FileInputStream.<init> (FileInputStream.java:138)
  org.openmrs.module.uiframework.ResourceServlet.doGet(ResourceServlet.java:78)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:635)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:728)
  org.openmrs.module.web.ModuleServlet.service(ModuleServlet.java:71)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:728)
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  org.openmrs.module.owa.filter.OwaFilter.doFilter(OwaFilter.java:93)
  org.openmrs.module.owa.filter.OwaFilter.doFilter(OwaFilter.java:61)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:71)
  org.openmrs.module.spa.filter.SpaFilter.doFilter(SpaFilter.java:53)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:71)
  org.openmrs.module.web.filter.ModuleFilter.doFilter(ModuleFilter.java:57)
  org.openmrs.web.filter.OpenmrsFilter.doFilterInternal(OpenmrsFilter.java:105)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)
  org.springframework.orm.hibernate5.support.OpenSessionInViewFilter.doFilterInternal(OpenSessionInView Filter.java:156)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:201)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119) </pre></p>
  <p>note <u>The full stack trace of the root cause is available in the Apache Tomcat/7.0.50 logs.</u></p><HR size="1" noshade="noshade"><h3>Apache Tomcat/7.0.50</h3></body></html>

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/styles/
  java.io.FileNotFoundException:

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/styles/
  org.openmrs.module.uiframework.ResourceServlet.doGet(ResourceServlet.java:78)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:635)
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  org.openmrs.module.web.ModuleServlet.service(ModuleServlet.java:71)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:728)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:73)
  org.openmrs.module.owa.filter.OwaFilter.doFilter(OwaFilter.java:93)
  org.openmrs.module.owa.filter.OwaFilter.doFilter(OwaFilter.java:61)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:71)
  org.openmrs.module.spa.filter.SpaFilter.doFilter(SpaFilter.java:53)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:71)
  org.openmrs.module.web.filter.ModuleFilter.doFilter(ModuleFilter.java:57)
  org.openmrs.web.filter.OpenmrsFilter.doFilterInternal(OpenmrsFilter.java:105)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)
  org.springframework.orm.hibernate5.support.OpenSessionInViewFilter.doFilterInternal(OpenSessionInView
  Filter.java:156)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:201)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/styles/
  Exception report</p><p>message <u>appdata\.openmrs-lib-
  cache\appui\web\module\resources\styles (Access is denied)</u></p><p>description <u>The
  server encountered an internal error that prevented it from fulfilling this request.</u></p><p>
  exception <pre>java.io.FileNotFoundException: appdata\.openmrs-lib-
  cache\appui\web\module\resources\styles (Access is denied) java.io.FileInputStream.open0(Native Method)
  java.io.FileInputStream.open(FileInputStream.java:195) java.io.FileInputStream.<init>
  (FileInputStream.java:138)
  org.openmrs.module.uiframework.ResourceServlet.doGet(ResourceServlet.java:78)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:635)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:728)
  org.openmrs.module.web.ModuleServlet.service(ModuleServlet.java:71)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:728)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:73)
  org.openmrs.module.owa.filter.OwaFilter.doFilter(OwaFilter.java:93)
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  org.openmrs.web.filter.OpenmrsFilter.doFilterInternal(OpenmrsFilter.java:105)
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  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119) </pre></p>
  <p>note <u>The full stack trace of the root cause is available in the Apache Tomcat/7.0.50 logs.</u>
  </p><HR size="1" noshade="noshade"><h3>Apache Tomcat/7.0.50</h3></body></html>

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/
  java.io.FileNotFoundException:

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/
  org.openmrs.module.uiframework.ResourceServlet.doGet(ResourceServlet.java:78)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:635)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:728)
  org.openmrs.module.web.ModuleServlet.service(ModuleServlet.java:71)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:728)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:73)
  org.openmrs.module.owa.filter.OwaFilter.doFilter(OwaFilter.java:93)
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  org.openmrs.module.web.filter.ModuleFilter.doFilter(ModuleFilter.java:57)
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  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)
  **org.springframework.orm.hibernate5.support.OpenSessionInViewFilter.doFilterInternal(OpenSessionInView
  Filter.java:156)**
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)
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  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:201)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/
  **Exception report</p><p>message <u>appdata\.openmrs-lib-cache\appui\web\module\resources
  (Access is denied)</u></p><p>description <u>The server encountered an internal error that
  prevented it from fulfilling this request.</u></p><p>exception <pre>java.io.FileNotFoundException:
  appdata\.openmrs-lib-cache\appui\web\module\resources (Access is denied)
  java.io.FileInputStream.open0(Native Method) java.io.FileInputStream.open(FileInputStream.java:195)
  java.io.FileInputStream.<init>(FileInputStream.java:138)**
  org.openmrs.module.uiframework.ResourceServlet.doGet(ResourceServlet.java:78)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:635)
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  org.openmrs.web.filter.OpenmrsFilter.doFilterInternal(OpenmrsFilter.java:105)
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  **org.springframework.orm.hibernate5.support.OpenSessionInViewFilter.doFilterInternal(OpenSessionInView
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  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
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  org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:201)
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  <p>note <u>The full stack trace of the root cause is available in the Apache Tomcat/7.0.50 logs.</u>
  </p><HR size="1" noshade="noshade"><h3>Apache Tomcat/7.0.50</h3></body></html>**

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/
  java.io.FileNotFoundException:

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/
  org.openmrs.module.uiframework.ResourceServlet.doGet(ResourceServlet.java:78)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:635)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:728)
  org.openmrs.module.web.ModuleServlet.service(ModuleServlet.java:71)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:728)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:73)
  org.openmrs.module.owa.filter.OwaFilter.doFilter(OwaFilter.java:93)
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  org.openmrs.module.spa.filter.SpaFilter.doFilter(SpaFilter.java:53)
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  org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:201)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/
  Exception report</p><p>message <u>appdata\.openmrs-lib-cache\uicommons\web\module\resources (Access is denied)</u></p><p>description <u>The server encountered an internal error that prevented it from fulfilling this request.</u></p><p>exception <pre>java.io.FileNotFoundException: appdata\.openmrs-lib-cache\uicommons\web\module\resources (Access is denied) java.io.FileInputStream.open0(Native Method) java.io.FileInputStream.open(FileInputStream.java:195) java.io.FileInputStream.<init> (FileInputStream.java:138)
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- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/scripts/
  java.io.FileNotFoundException:

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/scripts/
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- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/scripts/
  Exception report</p><p>message <u>appdata\.openmrs-lib-cache\appui\web\module\resources\scripts (Access is denied)</u></p><p>description <u>The server encountered an internal error that prevented it from fulfilling this request.</u></p><p>exception <pre>java.io.FileNotFoundException: appdata\.openmrs-lib-cache\appui\web\module\resources\scripts (Access is denied) java.io.FileInputStream.open0(Native Method) java.io.FileInputStream.open(FileInputStream.java:195) java.io.FileInputStream.<init>(FileInputStream.java:138)
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- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/
  java.io.FileNotFoundException:

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/
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- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/referenceapplication/styles/
  java.io.FileNotFoundException:

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/referenceapplication/styles/
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  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/referenceapplication/styles/
  **Exception report</p><p>message <u>appdata\.openmrs-lib-
  cache\referenceapplication\web\module\resources\styles (Access is denied)</u></p><p>
  description <u>The server encountered an internal error that prevented it from fulfilling this
  request.</u></p><p>exception <pre>java.io.FileNotFoundException: appdata\.openmrs-lib-
  cache\referenceapplication\web\module\resources\styles (Access is denied)
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  <p>note <u>The full stack trace of the root cause is available in the Apache Tomcat/7.0.50 logs.</u>
  </p><HR size="1" noshade="noshade"><h3>Apache Tomcat/7.0.50</h3></body></html>**

Request headers

```
GET /openmrs-standalone/ms/uiframework/resource/*/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/*/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

⬤ Unencrypted connection

Severity	**Medium**
Reported by module	/RPA/no_https.js

Description

This scan target was connected to over an unencrypted connection. A potential attacker can intercept and modify data sent and received from this site.

Impact

Possible information disclosure.

Recommendation

The site should send and receive data over a secure (HTTPS) connection.

Affected items

Web Server
Verified vulnerability
Details
Request headers

```
GET /openmrs-standalone/appui/session/getLoginLocations.action? HTTP/1.1

Host: 172.17.0.123:8081

Pragma: no-cache

Cache-Control: no-cache

accept: application/json, text/javascript, */*; q=0.01

accept-language: en-US

cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; _REFERENCE_APPLICATION_LAST_USER_=63116079

x-requested-with: XMLHttpRequest

Referer: http://172.17.0.123:8081/openmrs-standalone/referenceapplication/home.page

Accept-Encoding: gzip,deflate,br

Connection: keep-alive

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36
```

⚠ User credentials are sent in clear text

Severity	Medium
Reported by module	/Crawler/12-Crawler_User_Credentials_Plain_Text.js

Description

User credentials are transmitted over an unencrypted channel. This information should always be transferred via an encrypted channel (HTTPS) to avoid being intercepted by malicious users.

Impact

A third party may be able to read the user credentials by intercepting an unencrypted HTTP connection.

Recommendation

Because user credentials are considered sensitive information, should always be transferred to the server over an encrypted connection (HTTPS).

Affected items

Web Server
Details

Forms with credentials sent in clear text:

- http://172.17.0.123:8081/openmrs-standalone/login.htm

```
Form name: <empty>
Form action: <empty>
Form method: POST
Password input: password
```

- http://172.17.0.123:8081/openmrs-standalone/referenceapplication/login.page

```
Form name: <empty>
Form action: <empty>
Form method: POST
Password input: password
```

Request headers

```
GET /openmrs-standalone/login.htm HTTP/1.1

Host: 172.17.0.123:8081

Pragma: no-cache

Cache-Control: no-cache

accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/
*;q=0.8,application/signed-exchange;v=b3;q=0.7

accept-language: en-US

upgrade-insecure-requests: 1

Accept-Encoding: gzip,deflate,br

Connection: keep-alive

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36
```

⚠ Vulnerable JavaScript libraries

Severity	**Medium**
Reported by module	/deepscan/javascript_library_audit_deepscan.js

Description

You are using one or more vulnerable JavaScript libraries. One or more vulnerabilities were reported for this version of the library. Consult Attack details and Web References for more information about the affected library and the vulnerabilities that were reported.

Impact

Consult References for more information.

Recommendation

Upgrade to the latest version.

Affected items

Web Server

Details

- **jQuery 1.12.4**
  - URL: http://172.17.0.123:8081/openmrs-standalone/
  - Detection method: The library's name and version were determined based on its dynamic behavior.
  - CVE-ID: CVE-2015-9251, CVE-2020-11022, CVE-2020-11023
  - Description: Possible Cross Site Scripting via third-party text/javascript responses (1.12.0-1.12.2 mitigation reverted) / In jQuery versions greater than or equal to 1.2 and before 3.5.0, passing HTML from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0. / In jQuery versions greater than or equal to 1.0.3 and before 3.5.0, passing HTML containing option elements from untrusted sources - even after sanitizing it - to one of jQuery's DOM manipulation methods (i.e. .html(), .append(), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0.
  - References:
    - https://github.com/jquery/jquery/issues/2432
    - https://blog.jquery.com/2020/04/10/jquery-3-5-0-released/
    - https://mksben.l0.cm/2020/05/jquery3.5.0-xss.html
    - https://jquery.com/upgrade-guide/3.5/
    - https://api.jquery.com/jQuery.htmlPrefilter/
    - https://www.cvedetails.com/cve/CVE-2020-11022/
    - https://github.com/advisories/GHSA-gxr4-xjj5-5px2
    - https://www.cvedetails.com/cve/CVE-2020-11023/
    - https://github.com/advisories/GHSA-jpcq-cgw6-v4j6

Request headers

```
GET /openmrs-standalone/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

Web Server

Details

- **jQuery UI Dialog 1.9.2**
    - URL: http://172.17.0.123:8081/openmrs-standalone/
    - Detection method: The library's name and version were determined based on its dynamic behavior.
    - CVE-ID: CVE-2010-5312, CVE-2016-7103
    - Description: Title cross-site scripting vulnerability / XSS in dialog closeText
    - References:
        - http://bugs.jqueryui.com/ticket/6016
        - https://nodesecurity.io/advisories/127
        - http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-7103
        - https://www.cvedetails.com/cve/CVE-2016-7103/

Request headers

```
GET /openmrs-standalone/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

Web Server

Details

- **jQuery UI Tooltip 1.9.2**
    - URL: http://172.17.0.123:8081/openmrs-standalone/
    - Detection method: The library's name and version were determined based on its dynamic behavior.
    - CVE-ID: CVE-2012-6662
    - Description: Autocomplete cross-site scripting vulnerability
    - References:
        - http://bugs.jqueryui.com/ticket/8859

Request headers

```
GET /openmrs-standalone/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

Web Server

Details

- **jQuery UI Datepicker 1.9.2**
    - URL: http://172.17.0.123:8081/openmrs-standalone/
    - Detection method: The library's name and version were determined based on its dynamic behavior.
    - CVE-ID: CVE-2021-41182, CVE-2021-41183
    - Description: XSS in the 'altField' option of the Datepicker widget / XSS in '*Text' options of the Datepicker widget
    - References:
        - https://blog.jqueryui.com/2021/10/jquery-ui-1-13-0-released/
        - https://github.com/jquery/jquery-ui/security/advisories/GHSA-9gj3-hwp5-pmwc
        - https://github.com/jquery/jquery-ui/security/advisories/GHSA-j7qv-pgf6-hvh4

Request headers

```
GET /openmrs-standalone/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

Web Server

Details

- **jQuery UI 1.9.2.custom**
  - URL: http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/jquery-ui-1.9.2.custom.min.js
  - Detection method: The library's name and version were determined based on the file's name. Acunetix performed a syntax analysis of the file and detected functional differences between the file and the original library version. As the file was likely modified on purpose, the confidence level of the vulnerability alert has been lowered.
  - CVE-ID: CVE-2021-41184
  - Description: XSS in the 'of' option of the '.position()' util
  - References:
    - https://blog.jqueryui.com/2021/10/jquery-ui-1-13-0-released/
    - https://github.com/jquery/jquery-ui/security/advisories/GHSA-gpqq-952q-5327

Request headers

```
GET /openmrs-standalone/ms/uiframework/resource/uicommons/scripts/jquery-ui-
1.9.2.custom.min.js?cache=1743451251454 HTTP/1.1

Host: 172.17.0.123:8081

Pragma: no-cache

Cache-Control: no-cache

accept: */*

accept-language: en-US

cookie: JSESSIONID=AED165B312220993360402B716FBD359

Referer: http://172.17.0.123:8081/openmrs-standalone/login.htm

Accept-Encoding: gzip,deflate,br

Connection: keep-alive

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36
```

Web Server

Details

- **AngularJS 1.5.8**
  - URL: http://172.17.0.123:8081/openmrs-standalone/registrationapp/registerPatient.page
  - Detection method: The library's name and version were determined based on its dynamic behavior.
  - CVE-ID: CVE-2020-7676
  - Description: Prototype pollution / Cross-Site Scripting.
  - References:
    - https://github.com/angular/angular.js/commit/726f49dcf6c23106ddaf5cfd5e2e592841db743a
    - https://github.com/angular/angular.js/blob/master/CHANGELOG.md#179-pollution-eradication-2019-11-19
    - https://nvd.nist.gov/vuln/detail/CVE-2020-7676

Request headers

```
GET /openmrs-standalone/registrationapp/registerPatient.page?
appId=referenceapplication.registrationapp.registerPatient HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079;
org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

Web Server

Details

- **handlebars.js 2.0.0**
    - URL: http://172.17.0.123:8081/openmrs-standalone/registrationapp/registerPatient.page
    - Detection method: The library's name and version were determined based on its dynamic behavior.
    - CVE-ID: N/A
    - Description: Unsafe direct call of helperMissing and blockHelperMissing / Prototype pollution
    - References:
        - https://github.com/wycats/handlebars.js/blob/master/release-notes.md#v430---september-24th-2019
        - https://github.com/wycats/handlebars.js/blob/master/release-notes.md#v453---november-18th-2019

Request headers

```
GET /openmrs-standalone/registrationapp/registerPatient.page?
appId=referenceapplication.registrationapp.registerPatient HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079;
org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

ⓘ Clickjacking: X-Frame-Options header

Severity	**Low**
Reported by module	/httpdata/X_Frame_Options_not_implemented.js

Description

Clickjacking (User Interface redress attack, UI redress attack, UI redressing) is a malicious technique of tricking a Web user into clicking on something different from what the user perceives they are clicking on, thus potentially revealing confidential information or taking control of their computer while clicking on seemingly innocuous web pages.

The server did not return an **X-Frame-Options** header with the value DENY or SAMEORIGIN, which means that this website could be at risk of a clickjacking attack. The X-Frame-Options HTTP response header can be used to indicate whether or not a browser should be allowed to render a page inside a frame or iframe. Sites can use this to avoid clickjacking attacks, by ensuring that their content is not embedded into untrusted sites.

Impact

The impact depends on the affected web application.

Recommendation

Configure your web server to include an X-Frame-Options header and a CSP header with frame-ancestors directive. Consult Web references for more information about the possible values for this header.

References

The X-Frame-Options response header (https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options)
Clickjacking (https://en.wikipedia.org/wiki/Clickjacking)
OWASP Clickjacking (https://cheatsheetseries.owasp.org/cheatsheets/Clickjacking_Defense_Cheat_Sheet.html)
Frame Buster Buster (https://stackoverflow.com/questions/958997/frame-buster-buster-buster-code-needed)

Affected items

Web Server
Details
Paths without secure XFO header: • http://172.17.0.123:8081/openmrs-standalone/ • http://172.17.0.123:8081/openmrs-standalone/appui/ • http://172.17.0.123:8081/openmrs-standalone/appui/session/ • http://172.17.0.123:8081/openmrs-standalone/referenceapplication/ • http://172.17.0.123:8081/openmrs-standalone/login.htm • http://172.17.0.123:8081/openmrs-standalone/referenceapplication/home.page • http://172.17.0.123:8081/openmrs-standalone/coreapps/findpatient/findPatient.page • http://172.17.0.123:8081/openmrs-standalone/coreapps/ • http://172.17.0.123:8081/openmrs-standalone/registrationapp/registerPatient.page • http://172.17.0.123:8081/openmrs-standalone/registrationapp/ • http://172.17.0.123:8081/openmrs-standalone/images/ • http://172.17.0.123:8081/openmrs-standalone/adminui/ • http://172.17.0.123:8081/openmrs-standalone/reportingui/ • http://172.17.0.123:8081/openmrs-standalone/reportingui/reportsapp/ • http://172.17.0.123:8081/openmrs-standalone/coreapps/findpatient/ • http://172.17.0.123:8081/openmrs-standalone/adminui/metadata/ • http://172.17.0.123:8081/openmrs-standalone/atlas/ • http://172.17.0.123:8081/openmrs-standalone/appui/header/ • http://172.17.0.123:8081/openmrs-standalone/adminui/myaccount/ • http://172.17.0.123:8081/openmrs-standalone/coreapps/datamanagement/ • http://172.17.0.123:8081/openmrs-standalone/coreapps/systemadministration/
Request headers

```
GET /openmrs-standalone/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

ⓘ Cookies with missing, inconsistent or contradictory properties

Severity	**Low**
Reported by module	/RPA/Cookie_Validator.js

Description

At least one of the following cookies properties causes the cookie to be invalid or incompatible with either a different property of the same cookie, of with the environment the cookie is being used in. Although this is not a vulnerability in itself, it will likely lead to unexpected behavior by the application, which in turn may cause secondary security issues.

Impact

Cookies will not be stored, or submitted, by web browsers.

Recommendation

Ensure that the cookies configuration complies with the applicable standards.

References

MDN | Set-Cookie (https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Set-Cookie)
Securing cookies with cookie prefixes (https://www.sjoerdlangkemper.nl/2017/02/09/cookie-prefixes/)
Cookies: HTTP State Management Mechanism (https://tools.ietf.org/html/draft-ietf-httpbis-rfc6265bis-05)
SameSite Updates - The Chromium Projects (https://www.chromium.org/updates/same-site)
draft-west-first-party-cookies-07: Same-site Cookies (https://tools.ietf.org/html/draft-west-first-party-cookies-07)

Affected items

Web Server
Verified vulnerability
Details

List of cookies with missing, inconsistent or contradictory properties:

- http://172.17.0.123:8081/openmrs-standalone/login.htm

  Cookie was set with:

  ```
  Set-Cookie: referenceapplication.lastSessionLocation=6; HttpOnly
  ```

  This cookie has the following issues:

  ```
   - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

- http://172.17.0.123:8081/openmrs-standalone/login.htm

  Cookie was set with:

  ```
  Set-Cookie: _REFERENCE_APPLICATION_LAST_USER_=63116079; HttpOnly
  ```

  This cookie has the following issues:

  ```
   - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

- http://172.17.0.123:8081/openmrs-standalone/login.htm

  Cookie was set with:

  ```
  Set-Cookie: JSESSIONID=AED165B312220993360402B716FBD359; Path=/openmrs-standalone/; H
  ```

  This cookie has the following issues:

  ```
   - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

- http://172.17.0.123:8081/openmrs-standalone/

  Cookie was set with:

  ```
  Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
  ```

  This cookie has the following issues:

  ```
   - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

- http://172.17.0.123:8081/openmrs-standalone/coreapps/

  Cookie was set with:

  ```
  Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
  ```

  This cookie has the following issues:

```
 - Cookie without SameSite attribute.
When cookies lack the SameSite attribute, Web browsers may apply different and someti
```

- http://172.17.0.123:8081/openmrs-standalone/registrationapp/

  Cookie was set with:

  ```
  Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
  ```

  This cookie has the following issues:

  ```
   - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

- http://172.17.0.123:8081/openmrs-standalone/appui/header/logout.action

  Cookie was set with:

  ```
  Set-Cookie: JSESSIONID=FDBBBE5AF4888A83E3084E337F58BAE8; Path=/openmrs-standalone/; H
  ```

  This cookie has the following issues:

  ```
   - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

- http://172.17.0.123:8081/openmrs-standalone/registrationapp/registerPatient.page

  Cookie was set with:

  ```
  Set-Cookie: JSESSIONID=64E2E01EE8305FCA18D113347E6377B9; Path=/openmrs-standalone/; H
  ```

  This cookie has the following issues:

  ```
   - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

- http://172.17.0.123:8081/openmrs-standalone/registrationapp/registerPatient.page

  Cookie was set with:

  ```
  Set-Cookie: JSESSIONID=C639D8E5FDA8E7DE20AD322049E27CDE; Path=/openmrs-standalone/; H
  ```

  This cookie has the following issues:

  ```
   - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

- http://172.17.0.123:8081/openmrs-standalone/adminui/metadata/configureMetadata.page

  Cookie was set with:

  ```
  Set-Cookie: JSESSIONID=A38B99195885D44B9BE83A827254FE50; Path=/openmrs-standalone/; H
  ```

  This cookie has the following issues:

```
 - Cookie without SameSite attribute.
When cookies lack the SameSite attribute, Web browsers may apply different and someti
```

- http://172.17.0.123:8081/openmrs-standalone/registrationapp/registerPatient.page

Cookie was set with:

```
Set-Cookie: JSESSIONID=70517704F6143129AD1DA8382715B903; Path=/openmrs-standalone/; H
```

This cookie has the following issues:

```
 - Cookie without SameSite attribute.
When cookies lack the SameSite attribute, Web browsers may apply different and someti
```

- http://172.17.0.123:8081/openmrs-standalone/registrationapp/registerPatient.page

Cookie was set with:

```
Set-Cookie: JSESSIONID=BC97BC293E5DBC95DBC1CFDDD4F00DBF; Path=/openmrs-standalone/; H
```

This cookie has the following issues:

```
 - Cookie without SameSite attribute.
When cookies lack the SameSite attribute, Web browsers may apply different and someti
```

- http://172.17.0.123:8081/openmrs-standalone/registrationapp/registerPatient.page

Cookie was set with:

```
Set-Cookie: JSESSIONID=5C495B40381E395B06AAA87D5FD052EC; Path=/openmrs-standalone/; H
```

This cookie has the following issues:

```
 - Cookie without SameSite attribute.
When cookies lack the SameSite attribute, Web browsers may apply different and someti
```

- http://172.17.0.123:8081/openmrs-standalone/images/

Cookie was set with:

```
Set-Cookie: JSESSIONID=A2A66C8AE6FF8D6AF1A0E476416D14A3; Path=/openmrs-standalone/; H
```

This cookie has the following issues:

```
 - Cookie without SameSite attribute.
When cookies lack the SameSite attribute, Web browsers may apply different and someti
```

- http://172.17.0.123:8081/openmrs-standalone/images/

Cookie was set with:

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

This cookie has the following issues:

```
  - Cookie without SameSite attribute.
When cookies lack the SameSite attribute, Web browsers may apply different and someti
```

- http://172.17.0.123:8081/openmrs-standalone/adminui/

  Cookie was set with:

  ```
  Set-Cookie: JSESSIONID=1030CBD1D6F3A3B3FE5174295B452720; Path=/openmrs-standalone/; H
  ```

  This cookie has the following issues:

  ```
   - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

- http://172.17.0.123:8081/openmrs-standalone/referenceapplication/

  Cookie was set with:

  ```
  Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
  ```

  This cookie has the following issues:

  ```
   - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

- http://172.17.0.123:8081/openmrs-standalone/adminui/

  Cookie was set with:

  ```
  Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
  ```

  This cookie has the following issues:

  ```
   - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

- http://172.17.0.123:8081/openmrs-standalone/reportingui/

  Cookie was set with:

  ```
  Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
  ```

  This cookie has the following issues:

  ```
   - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

- http://172.17.0.123:8081/openmrs-standalone/atlas/

  Cookie was set with:

  ```
  Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
  ```

  This cookie has the following issues:

```
  - Cookie without SameSite attribute.
When cookies lack the SameSite attribute, Web browsers may apply different and someti
```

- http://172.17.0.123:8081/openmrs-standalone/coreapps/systemadministration/systemAdministration.page

  Cookie was set with:

  ```
  Set-Cookie: JSESSIONID=5031E203B317E0CCA53D759706B0A2D2; Path=/openmrs-standalone/; H
  ```

  This cookie has the following issues:

  ```
    - Cookie without SameSite attribute.
  When cookies lack the SameSite attribute, Web browsers may apply different and someti
  ```

Request headers

```
POST /openmrs-standalone/login.htm HTTP/1.1

Host: 172.17.0.123:8081

Content-Length: 63

Pragma: no-cache

Cache-Control: no-cache

Upgrade-Insecure-Requests: 1

Origin: http://172.17.0.123:8081

Content-Type: application/x-www-form-urlencoded

Accept-Language: en-US

Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/
*;q=0.8,application/signed-exchange;v=b3;q=0.7

Referer: http://172.17.0.123:8081/openmrs-standalone/login.htm

Accept-Encoding: gzip,deflate,br

Cookie: JSESSIONID=AED165B312220993360402B716FBD359

Connection: keep-alive

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36



username=Admin&password=Admin123&sessionLocation=6&redirectUrl=
```

ⓘ Cookies without HttpOnly flag set

Severity	Low

Reported by module	/RPA/Cookie_Without_HttpOnly.js

Description

One or more cookies don't have the HttpOnly flag set. When a cookie is set with the HttpOnly flag, it instructs the browser that the cookie can only be accessed by the server and not by client-side scripts. This is an important security protection for session cookies.

Impact

Cookies can be accessed by client-side scripts.

Recommendation

If possible, you should set the HttpOnly flag for these cookies.

Affected items

Web Server
Verified vulnerability
Details

Cookies without HttpOnly flag set:

- http://172.17.0.123:8081/openmrs-standalone/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/coreapps/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/registrationapp/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/images/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/referenceapplication/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/adminui/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/reportingui/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/atlas/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/login.htm

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/

Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/reportingui/reportsapp/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/

Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/appointmentschedulingui/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/

Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/appui/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/

Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/index.htm

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/

Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/adminui/metadata/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/

Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/adminui/myaccount/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/

Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/appui/session/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/

Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/atlas/map.page

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/appui/header/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/

Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/reportingui/reportsapp/home.page

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/adminui/metadata/configureMetadata.page

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

- http://172.17.0.123:8081/openmrs-standalone/coreapps/datamanagement/

```
Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/

Set-Cookie: org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1; Path=/
```

Request headers

```
GET /openmrs-standalone/?theme=1 HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

ⓘ Stack Trace Disclosure (Tomcat)

Severity	**Low**
Reported by module	/httpdata/text_search.js

Description

One or more stack traces were identified. The web application has generated an error message that includes sensitive information about its environment, users, or associated data.

The stack trace can disclose potentially sensitive information such as: physical file paths of relevant files, source code fragments, version information of various packages, database information, error messages, ...

Impact

The stack traces may disclose sensitive information. This information can be used to launch further attacks.

Recommendation

It's recommended to handle exceptions internally and do not display errors containing potentially sensitive information to a user.

Affected items

Web Server
Details

Pages with stack traces:

- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/*/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/styles/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/scripts/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/referenceapplication/styles/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/*/styles/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/styles/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/styles/styleguide/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/referenceapplication/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/appui/session/getLoginLocations.action
  exception <pre>org.springframework.web.util.NestedServletException: Request processing failed; nested exception is java.lang.RuntimeException: Don't know how to handle fragment action result type: class java.util.ArrayList
  org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:1014)
  org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.java:898)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:621)
  org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:883)
  javax.servlet.http.HttpServlet.service(HttpServlet.java:728)
  org.openmrs.web.filter.GZIPFilter.doFilterInternal(GZIPFilter.java:65)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:73)
  org.openmrs.module.owa.filter.OwaFilter.doFilter(OwaFilter.java:93)
  org.openmrs.module.owa.filter.OwaFilter.doFilter(OwaFilter.java:61)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:71)
  org.openmrs.module.spa.filter.SpaFilter.doFilter(SpaFilter.java:53)
  org.openmrs.module.web.filter.ModuleFilterChain.doFilter(ModuleFilterChain.java:71)
  org.openmrs.module.web.filter.ModuleFilter.doFilter(ModuleFilter.java:57)
  org.openmrs.web.filter.OpenmrsFilter.doFilterInternal(OpenmrsFilter.java:105)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)
  org.springframework.orm.hibernate5.support.OpenSessionInViewFilter.doFilterInternal(OpenSessionInViewFilter.java:156)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.openmrs.web.filter.StartupFilter.doFilter(StartupFilter.java:108)
  org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:201)
  org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:119) </pre></p>
  <p>**root cause** <pre>java.lang.RuntimeException: Don't know how to handle fragment action result type: class java.util.ArrayList
  org.openmrs.module.uiframework.FragmentActionController.handlePath(FragmentActionController.java:265)
  org.openmrs.module.uiframework.FragmentActionController.handleUrlWithDotAction(FragmentActionController.java:103) sun.reflect.GeneratedMethodAccessor1198.invoke(Unknown Source)
  sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
  java.lang.reflect.Method.invoke(Method.java:498)
  org.springframework.web.method.support.InvocableHandlerMethod.doInvoke(InvocableHandlerMethod.jav

a:190)
org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequest(InvocableHandlerMethod.java:138)
org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod.invokeAndHandle(ServletInvocableHandlerMethod.java:105)
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:878)
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:792)
org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.handle(AbstractHandlerMethodAdapter.java:87)
org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:1040)
org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:943)
org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:1006)
org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.java:898)
javax.servlet.http.HttpServlet.service(HttpServlet.java:621)
org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:883) javax.servlet.http

- http://172.17.0.123:8081/openmrs-standalone/appui/session/getLoginLocations.action
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/registrationapp/matchingPatients/getSimilarPatients.action
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/coreapps/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/registrationapp/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/referenceapplication/images/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/referenceapplication/fonts/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/images/logo/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/registrationapp/scripts/field/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/
- http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/coreapps/styles/patientsearch/
  note <u>The full stack trace of the root cause is available in the Apache Tomcat/

Request headers

```
GET /openmrs-standalone/ms/uiframework/resource/*/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/*/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

ⓘ Content Security Policy (CSP) not implemented

Severity	Informational
Reported by module	/httpdata/CSP_not_implemented.js

Description

Content Security Policy (CSP) is an added layer of security that helps to detect and mitigate certain types of attacks, including Cross Site Scripting (XSS) and data injection attacks.

Content Security Policy (CSP) can be implemented by adding a **Content-Security-Policy** header. The value of this header is a string containing the policy directives describing your Content Security Policy. To implement CSP, you should define lists of allowed origins for the all of the types of resources that your site utilizes. For example, if you have a simple site that needs to load scripts, stylesheets, and images hosted locally, as well as from the jQuery library from their CDN, the CSP header could look like the following:

```
Content-Security-Policy:
    default-src 'self';
    script-src 'self' https://code.jquery.com;
```

It was detected that your web application doesn't implement Content Security Policy (CSP) as the CSP header is missing from the response. It's recommended to implement Content Security Policy (CSP) into your web application.

Impact

CSP can be used to prevent and/or mitigate attacks that involve content/code injection, such as cross-site scripting/XSS attacks, attacks that require embedding a malicious resource, attacks that involve malicious use of iframes, such as clickjacking attacks, and others.

Recommendation

It's recommended to implement Content Security Policy (CSP) into your web application. Configuring Content Security Policy involves adding the **Content-Security-Policy** HTTP header to a web page and giving it values to control resources the user agent is allowed to load for that page.

References

Content Security Policy (CSP) (https://developer.mozilla.org/en-US/docs/Web/HTTP/CSP)
Implementing Content Security Policy (https://hacks.mozilla.org/2016/02/implementing-content-security-policy/)

Affected items

Web Server
Details

Paths without CSP header:

- http://172.17.0.123:8081/openmrs-standalone/

- http://172.17.0.123:8081/openmrs-standalone/appui/

- http://172.17.0.123:8081/openmrs-standalone/appui/session/

- http://172.17.0.123:8081/openmrs-standalone/referenceapplication/

- http://172.17.0.123:8081/openmrs-standalone/login.htm

- http://172.17.0.123:8081/openmrs-standalone/referenceapplication/home.page

- http://172.17.0.123:8081/openmrs-standalone/coreapps/findpatient/findPatient.page

- http://172.17.0.123:8081/openmrs-standalone/coreapps/

- http://172.17.0.123:8081/openmrs-standalone/registrationapp/registerPatient.page

- http://172.17.0.123:8081/openmrs-standalone/registrationapp/

- http://172.17.0.123:8081/openmrs-standalone/images/

- http://172.17.0.123:8081/openmrs-standalone/adminui/

- http://172.17.0.123:8081/openmrs-standalone/reportingui/

- http://172.17.0.123:8081/openmrs-standalone/reportingui/reportsapp/

- http://172.17.0.123:8081/openmrs-standalone/coreapps/findpatient/

- http://172.17.0.123:8081/openmrs-standalone/adminui/metadata/

- http://172.17.0.123:8081/openmrs-standalone/atlas/

- http://172.17.0.123:8081/openmrs-standalone/appui/header/

- http://172.17.0.123:8081/openmrs-standalone/adminui/myaccount/

- http://172.17.0.123:8081/openmrs-standalone/coreapps/datamanagement/

- http://172.17.0.123:8081/openmrs-standalone/coreapps/systemadministration/

Request headers

```
GET /openmrs-standalone/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

ⓘ No HTTP Redirection

Severity	Informational
Reported by module	/target/http_redirections.js

Description

It was detected that your web application uses HTTP protocol, but doesn't automatically redirect users to HTTPS.

Impact

In some circumstances, it could be used for a man-in-the-middle (MitM) attack

Recommendation

It's recommended to implement best practices of HTTP Redirection into your web application. Consult web references for more information

References

HTTP Redirections (https://infosec.mozilla.org/guidelines/web_security#http-redirections)

Affected items

Web Server
Details
Request headers

```
GET / HTTP/1.1

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

ⓘ Outdated JavaScript libraries

Severity	Informational
Reported by module	/deepscan/javascript_library_audit_deepscan.js

Description

You are using an outdated version of one or more JavaScript libraries. A more recent version is available. Although your version was not found to be affected by any security vulnerabilities, it is recommended to keep libraries up to date.

Impact

Consult References for more information.

Recommendation

Upgrade to the latest version.

Affected items

Web Server
Details

- **knockout.js 2.2.1**
  - URL: http://172.17.0.123:8081/openmrs-standalone/
  - Detection method: The library's name and version were determined based on its dynamic behavior.
  - References:
    - https://github.com/knockout/knockout/tags

Request headers

```
GET /openmrs-standalone/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

Web Server

Details

- **bootstrap.js 4.3.1**
    - URL: http://172.17.0.123:8081/openmrs-standalone/
    - Detection method: The library's name and version were determined based on its dynamic behavior.
    - References:
        - https://github.com/twbs/bootstrap/releases

Request headers

```
GET /openmrs-standalone/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

Web Server

Details

- **Underscore.js 1.4.4**
  - URL: http://172.17.0.123:8081/openmrs-standalone/
  - Detection method: The library's name and version were determined based on its dynamic behavior.
  - References:
    - https://github.com/jashkenas/underscore/tags

Request headers

```
GET /openmrs-standalone/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

Web Server

Details

- **Lodash 1.4.4**
  - URL: http://172.17.0.123:8081/openmrs-standalone/
  - Detection method: The library's name and version were determined based on its dynamic behavior.
  - References:
    - https://github.com/lodash/lodash/tags

Request headers

```
GET /openmrs-standalone/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

Web Server

Details

- **DataTables 1.9.4**
    - URL: http://172.17.0.123:8081/openmrs-standalone/coreapps/findpatient/findPatient.page
    - Detection method: The library's name and version were determined based on its dynamic behavior.
    - References:
        - https://github.com/DataTables/DataTables/tags

Request headers

```
GET /openmrs-standalone/coreapps/findpatient/findPatient.page?app=coreapps.findPatient
HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079;
org.springframework.web.servlet.theme.CookieThemeResolver.THEME=1

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

ⓘ Permissions-Policy header not implemented

Severity	Informational
Reported by module	/httpdata/permissions_policy.js

Description

The Permissions-Policy header allows developers to selectively enable and disable use of various browser features and APIs.

Impact

Recommendation

References

Permissions-Policy / Feature-Policy (MDN) (https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Feature-Policy)
Permissions Policy (W3C) (https://www.w3.org/TR/permissions-policy-1/)

Affected items

Web Server
Details
Locations without Permissions-Policy header: • http://172.17.0.123:8081/openmrs-standalone/ • http://172.17.0.123:8081/openmrs-standalone/appui/ • http://172.17.0.123:8081/openmrs-standalone/appui/session/ • http://172.17.0.123:8081/openmrs-standalone/referenceapplication/ • http://172.17.0.123:8081/openmrs-standalone/login.htm • http://172.17.0.123:8081/openmrs-standalone/referenceapplication/home.page • http://172.17.0.123:8081/openmrs-standalone/coreapps/findpatient/findPatient.page • http://172.17.0.123:8081/openmrs-standalone/coreapps/ • http://172.17.0.123:8081/openmrs-standalone/registrationapp/registerPatient.page • http://172.17.0.123:8081/openmrs-standalone/registrationapp/ • http://172.17.0.123:8081/openmrs-standalone/images/ • http://172.17.0.123:8081/openmrs-standalone/adminui/ • http://172.17.0.123:8081/openmrs-standalone/reportingui/ • http://172.17.0.123:8081/openmrs-standalone/reportingui/reportsapp/ • http://172.17.0.123:8081/openmrs-standalone/coreapps/findpatient/ • http://172.17.0.123:8081/openmrs-standalone/adminui/metadata/ • http://172.17.0.123:8081/openmrs-standalone/atlas/ • http://172.17.0.123:8081/openmrs-standalone/appui/header/ • http://172.17.0.123:8081/openmrs-standalone/adminui/myaccount/ • http://172.17.0.123:8081/openmrs-standalone/coreapps/datamanagement/ • http://172.17.0.123:8081/openmrs-standalone/coreapps/systemadministration/
Request headers

```
GET /openmrs-standalone/ HTTP/1.1

Referer: http://172.17.0.123:8081/openmrs-standalone/

Cookie: JSESSIONID=AED165B312220993360402B716FBD359;
referenceapplication.lastSessionLocation=6; referenceapplication.lastSessionLocation=6;
_REFERENCE_APPLICATION_LAST_USER_=63116079; _REFERENCE_APPLICATION_LAST_USER_=63116079

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.0.0 Safari/537.36

Host: 172.17.0.123:8081

Connection: Keep-alive
```

Scanned items (coverage report)

http://172.17.0.123:8081/
http://172.17.0.123:8081/openmrs-standalone/
http://172.17.0.123:8081/openmrs-standalone/adminui/
http://172.17.0.123:8081/openmrs-standalone/adminui/metadata/
http://172.17.0.123:8081/openmrs-standalone/adminui/metadata/configureMetadata.page
http://172.17.0.123:8081/openmrs-standalone/adminui/myaccount/
http://172.17.0.123:8081/openmrs-standalone/adminui/myaccount/myAccount.page
http://172.17.0.123:8081/openmrs-standalone/appointmentschedulingui/
http://172.17.0.123:8081/openmrs-standalone/appointmentschedulingui/home.page
http://172.17.0.123:8081/openmrs-standalone/appui/
http://172.17.0.123:8081/openmrs-standalone/appui/header/
http://172.17.0.123:8081/openmrs-standalone/appui/header/logout.action
http://172.17.0.123:8081/openmrs-standalone/appui/session/
http://172.17.0.123:8081/openmrs-standalone/appui/session/getLoginLocations.action
http://172.17.0.123:8081/openmrs-standalone/atlas/
http://172.17.0.123:8081/openmrs-standalone/atlas/map.page
http://172.17.0.123:8081/openmrs-standalone/coreapps/
http://172.17.0.123:8081/openmrs-standalone/coreapps/activeVisits.page
http://172.17.0.123:8081/openmrs-standalone/coreapps/clinicianfacing/
http://172.17.0.123:8081/openmrs-standalone/coreapps/clinicianfacing/patient.page
http://172.17.0.123:8081/openmrs-standalone/coreapps/datamanagement/
http://172.17.0.123:8081/openmrs-standalone/coreapps/datamanagement/dataManagement.page
http://172.17.0.123:8081/openmrs-standalone/coreapps/findpatient/
http://172.17.0.123:8081/openmrs-standalone/coreapps/findpatient/findPatient.page
http://172.17.0.123:8081/openmrs-standalone/coreapps/systemadministration/
http://172.17.0.123:8081/openmrs-standalone/coreapps/systemadministration/systemAdministration.page
http://172.17.0.123:8081/openmrs-standalone/images/
http://172.17.0.123:8081/openmrs-standalone/index.htm
http://172.17.0.123:8081/openmrs-standalone/login.htm
http://172.17.0.123:8081/openmrs-standalone/ms/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/*/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/*/styles/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/*/styles/login.css
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/scripts/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/scripts/bootstrap.min.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/scripts/jquery.min.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/scripts/popper.min.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/styles/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/styles/bootstrap.min.css
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/appui/styles/header.css
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/coreapps/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/coreapps/scripts/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/coreapps/scripts/patientsearch/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/coreapps/scripts/patientsearch/patientSearchWidget.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/coreapps/styles/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/coreapps/styles/patientsearch/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/coreapps/styles/patientsearch/patientSearchWidget.css
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/referenceapplication/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/referenceapplication/fonts/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/referenceapplication/images/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/referenceapplication/styles/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/referenceapplication/styles/home.css
http://172.17.0.123:8081/openmrs-

standalone/ms/uiframework/resource/referenceapplication/styles/referenceapplication.css
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/registrationapp/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/registrationapp/scripts/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/registrationapp/scripts/field/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/registrationapp/scripts/field/personRelationship.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/registrationapp/scripts/registerPatient.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/registrationapp/styles/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/registrationapp/styles/registerPatient.css
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/font-awesome-5/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/images/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/images/logo/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/angular-common.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/angular-resource.min.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/angular-ui/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/angular-ui/ui-bootstrap-tpls-0.6.0.min.js
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http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/datatables/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/datatables/jquery.dataTables.min.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/emr.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/handlebars/
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http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/jquery-ui-1.9.2.custom.min.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/jquery.simplemodal.1.4.4.min.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/jquery.toastmessage.js
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/scripts/knockout-2.2.1.js
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http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/styles/datatables/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/styles/datatables/dataTables_jui.css
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/styles/images/
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http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/styles/styleguide/images/
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/styles/styleguide/jquery-ui-1.9.2.custom.min.css
http://172.17.0.123:8081/openmrs-standalone/ms/uiframework/resource/uicommons/styles/styleguide/jquery.toastmessage.css
http://172.17.0.123:8081/openmrs-standalone/referenceapplication/
http://172.17.0.123:8081/openmrs-standalone/referenceapplication/home.page
http://172.17.0.123:8081/openmrs-standalone/referenceapplication/login.page
http://172.17.0.123:8081/openmrs-standalone/registrationapp/
http://172.17.0.123:8081/openmrs-standalone/registrationapp/matchingPatients/
http://172.17.0.123:8081/openmrs-standalone/registrationapp/matchingPatients/getSimilarPatients.action
http://172.17.0.123:8081/openmrs-standalone/registrationapp/registerPatient.page

http://172.17.0.123:8081/openmrs-standalone/reportingui/
http://172.17.0.123:8081/openmrs-standalone/reportingui/reportsapp/
http://172.17.0.123:8081/openmrs-standalone/reportingui/reportsapp/home.page