

TECHNISCHE UNIVERSITÄT MÜNCHEN

Secure Coding - Phase 2

Blackbox Testing Report

Team 12
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Executive Summary

- 1 DogeBank- Team 27
- 2 Goliath National Bank- Team 12
- 3 Comparison

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1 Timetracking

User	Task	Time
Alexander Lill	Example	2h
Lorenzo Donini	Example	2h
Florian Mauracher	Example	2h
Mahmoud Naser	Example	2h

2 Vulnerabilities Overview

- 2.1 DogeBank
- 2.2 Goliath National Bank
- 2.3 Comparison

3 Detailed Report

3.1 Tools description

3.2 Configuration and Deploy Management Testing

3.2.1 Test File Extensions Handling for Sensitive Information (OTG-CONFIG-003)

	DogeBank
Observation	observation text
Discovery	discovery text
Likelihood	likelihood text
Implication	implication text
CVSS	av ac pr ui s c i a

	Goliath National Bank
Observation	observation text
Discovery	discovery text
Likelihood	likelihood text
Implication	implication text
CVSS	av ac pr ui s c i a

- 3.2.2 Test HTTP Methods (OTG-CONFIG-006)
- 3.2.3 Test HTTP Strict Transport Security (OTG-CONFIG-007)
- 3.2.4 Test RIA cross domain policy (OTG-CONFIG-008)

3.3 Identity Management Testing

- 3.3.1 Test Role Definitions (OTG-IDENT-001)
- 3.3.2 Test User Registration Process (OTG-IDENT-002)
- 3.3.3 Test Account Provisioning Process (OTG-IDENT-003)
- 3.3.4 Testing for Account Enumeration and Guessable User Account (OTG-IDENT-004)
- 3.3.5 Testing for Weak or unenforced username policy (OTG-IDENT-005)

3.4 Authentication Testing

- 3.4.1 Testing for Credentials Transported over an Encrypted Channel (OTG-AUTHN-001)
- 3.4.2 Testing for default credentials (OTG-AUTHN-002)
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- 3.4.5 Test remember password functionality (OTG-AUTHN-005)
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- 3.4.9 Testing for weak password change or reset functionalities (OTG-AUTHN-009)
- 3.4.10 Testing for Weaker authentication in alternative channel (OTG-AUTHN-010)

3.5 Authorization Testing

- 3.5.1 Testing Directory traversal/file include (OTG-AUTHZ-001)
- 3.5.2 Testing for bypassing authorization schema (OTG-AUTHZ-002)
- 3.5.3 Testing for Privilege Escalation (OTG-AUTHZ-003)
- 3.5.4 Testing for Insecure Direct Object References (OTG-AUTHZ-004)

3.6 Session Management Testing

- 3.6.1 Testing for Bypassing Session Management Schema (OTG-SESS-001)
- 3.6.2 Testing for Cookies attributes (OTG-SESS-002)
- 3.6.3 Testing for Session Fixation (OTG-SESS-003)
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- 3.6.5 Testing for Cross Site Request Forgery (OTG-SESS-005)
- 3.6.6 Testing for logout functionality (OTG-SESS-006)
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- 3.6.8 Testing for Session puzzling (OTG-SESS-008)

3.7 Data Validation Testing

- 3.7.1 Testing for Reflected Cross Site Scripting (OTG-INPVAL-001)
- 3.7.2 Testing for Stored Cross Site Scripting (OTG-INPVAL-002)
- 3.7.3 Testing for HTTP Verb Tampering (OTG-INPVAL-003)
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- 3.7.6 Testing for LDAP Injection (OTG-INPVAL-006)
- 3.7.7 Testing for ORM Injection (OTG-INPVAL-007)
- 3.7.8 Testing for XML Injection (OTG-INPVAL-008)
- 3.7.9 Testing for SSI Injection (OTG-INPVAL-009)
- 3.7.10 Testing for XPath Injection (OTG-INPVAL-010)
- 3.7.11 IMAP/SMTP Injection (OTG-INPVAL-011)
- 3.7.12 Testing for Code Injection (OTG-INPVAL-012)

Testing for Local File Inclusion Testing for Remote File Inclusion

3.7.13 Testing for Command Injection (OTG-INPVAL-013)

3.7.14 Testing for Buffer overflow (OTG-INPVAL-014)

Testing for Heap overflow Testing for Stack overflow Testing for Format string

- 3.7.15 Testing for incubated vulnerabilities (OTG-INPVAL-015)
- 3.7.16 Testing for HTTP Splitting/Smuggling (OTG-INPVAL-016)

3.8 Error Handling

- 3.8.1 Analysis of Error Codes (OTG-ERR-001)
- 3.8.2 Analysis of Stack Traces (OTG-ERR-002)

3.9 Cryptography

- 3.9.1 Testing for Weak SSL/TSL Ciphers, Insufficient Transport Layer Protection (OTG-CRYPST-001)
- 3.9.2 Testing for Padding Oracle (OTG-CRYPST-002)
- 3.9.3 Testing for Sensitive information sent via unencrypted channels (OTG-CRYPST-003)

3.10 Business Logic Testing

- 3.10.1 Test Business Logic Data Validation (OTG-BUSLOGIC-001)
- 3.10.2 Test Ability to Forge Requests (OTG-BUSLOGIC-002)
- 3.10.3 Test Integrity Checks (OTG-BUSLOGIC-003)
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- 3.10.9 Test Upload of Malicious Files (OTG-BUSLOGIC-009)

3.11 Client Side Testing

- 3.11.1 Testing for DOM based Cross Site Scripting (OTG-CLIENT-001)
- 3.11.2 Testing for JavaScript Execution (OTG-CLIENT-002)
- 3.11.3 Testing for HTML Injection (OTG-CLIENT-003)
- 3.11.4 Testing for Client Side URL Redirect (OTG-CLIENT-004)
- 3.11.5 Testing for CSS Injection (OTG-CLIENT-005)
- 3.11.6 Testing for Client Side Resource Manipulation (OTG-CLIENT-006)
- 3.11.7 Test Cross Origin Resource Sharing (OTG-CLIENT-007)
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