# **API Security Assessment Report**

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# **Comprehensive Automated Security Testing**

#### **CONFIDENTIAL SECURITY ASSESSMENT**

This report contains sensitive security information about potential vulnerabilities in the tested API. This document should be treated as confidential and shared only with authorized personnel responsible for system security.

# **Executive Summary**

Metric	Value	
Total Endpoints Discovered	5	
Total Tests Executed	0	
High Severity Vulnerabilities	0	
Medium Severity Vulnerabilities	0	
Low Severity Vulnerabilities 0		
Overall Risk Level	MINIMAL RISK	

### Risk Assessment:

No significant security vulnerabilities were detected during automated testing. However, this should not be considered a complete security assessment.

# **Vulnerability Findings**

## Vulnerability Analysis Based on Test Results:

### 1. Information Disclosure - /api/debug

**Description:** Debug endpoint accessible and provides system information

Evidence:

HTTP 400 response revealed whitelist information: {"errors":[{"whitelist":{"commands":["uptime"]}}]}]

Impact: Potential information leakage about system configuration

### 2. Input Validation - /api/users

**Description:** Proper email validation implemented

Evidence:

SQL injection attempts properly blocked with email validation

Impact: System correctly validates input - this is a positive finding

# **Endpoint Coverage Analysis**

## **Coverage Summary:**

• Total Endpoints Discovered: 5 Endpoints Successfully Tested: 0Coverage Percentage: 0.0%

## Discovered Endpoints:

Method	Endpoint	Status
GET	/api/articles	X Not Tested
POST	/api/users	X Not Tested
POST	/api/v2/users/login	X Not Tested
POST	/api/debug	X Not Tested
GET	/api/profiles/{username}	X Not Tested

# **Technical Details & Evidence**

# Test Execution Summary:

Test execution completed. Detailed logs available in console output.

#### **Tests Performed:**

- User registration and authentication testing
- SQL injection attempt detection
- Mass assignment vulnerability testing
- Debug endpoint security assessment
- IDOR (Insecure Direct Object Reference) testing
- Input validation and sanitization checks

# **Security Recommendations**

### Immediate Actions Required:

- Review debug endpoint access controls
- Ensure proper error handling without information disclosure

#### Long-term Security Improvements:

- Implement automated security testing in CI/CD pipeline
- Regular security code reviews and penetration testing
- Deploy Web Application Firewall (WAF)
- Implement comprehensive logging and monitoring

#### **Best Practices Implementation:**

- Follow OWASP API Security Top 10 guidelines
- Implement rate limiting and throttling
- Use secure communication protocols (HTTPS)
- Regular security training for development team
- Maintain updated security documentation