

Security Assessment

AI-Powered Code Security Report

3d_Animation-Website

Scan Date

Nov 3, 2025, 12:36 PM

Total Findings

0

Files Scanned

0

Security Grade

A

Scan Duration

N/A

Risk Score

0/100

Critical: 0 | High: 0 | Medium: 0 | Low: 0

Ø=ÜÈ Executive Summary

This security assessment found zero vulnerabilities. The application demonstrates excellent security practices and adherence to modern coding standards.

Total Findings

0

Risk Score

0/100

Security Grade

A

Ø=ÜÈ Vulnerability Distribution

Findings breakdown by severity level:

CRITICAL

0

HIGH

0

MEDIUM

0

LOW

0

- CRITICAL: Immediate risk — potential data breach or system compromise
- HIGH: Significant risk — could enable unauthorized access
- MEDIUM: Moderate risk — should be addressed in next sprint
- LOW: Code quality improvement recommendations

Ø=Y Top 5 Critical & High Priority Findings

- ' Excellent! No critical or high-severity vulnerabilities detected.

Your application demonstrates strong security practices.

Ø=Y Secrets & Credentials

- ' No exposed secrets or hardcoded credentials detected.

Excellent! Continue using environment variables for sensitive data.

Ø>Y AI-Powered Security Best Practices

Key security improvements based on AI analysis:

1. API Security

- Request timeouts (30s)
- Rate limiting (100 req/min)
- Input validation
- Authentication on all endpoints

2. Authentication & Sessions

- Secure JWT tokens (RS256)
- Session expiration (15 min idle)
- Strong passwords (12+ chars)
- Multi-factor authentication

3. Data Validation

- Server-side validation
- Parameterized SQL queries
- XSS prevention
- CSP headers

4. Error Handling

- No stack traces in production
- Security event logging
- Centralized error handling
- Structured logging

Ø=Üj AI Recommendations

Short-Term Fixes (1-2 Weeks)

- ' Fix 0 critical/high vulnerabilities
- ' Rotate exposed credentials
- ' Add input validation
- ' Enable security headers (CSP, HSTS)
- ' Update vulnerable dependencies

Long-Term Improvements (1-3 Months)

- #ð Implement logging and monitoring
- #ð Automated security in CI/CD
- #ð Security training for team
- #ð Code review process
- #ð Deploy WAF
- #ð Secrets management solution

Ø=Üh Ø=Ü» Developer Remediation Guide

Practical code examples for common vulnerabilities:

1. SQL Injection Prevention

Attackers can manipulate queries to access/delete data.

'L Vulnerable:

```
db.query("SELECT * FROM users WHERE id=" + userId);
```

' Secure:

```
db.query("SELECT * FROM users WHERE id = ?" , [userId]);
```

2. XSS Prevention

Malicious scripts can steal sessions or redirect users.

'L Vulnerable:

```
res.send("<h1>" + req.query.name + "</h1>");
```

' Secure:

```
res.send("<h1>" + escapeHtml(req.query.name) + "</h1>");
```

3. Secure Password Storage

Plain text passwords expose all accounts in a breach.

'L Vulnerable:

```
db.insert({ password: req.body.password });
```

' Secure:

```
const hash = await bcrypt.hash(req.body.password, 10);
db.insert({ password: hash });
```

Ø=ÜË These fixes address OWASP Top 10 2021 and PCI-DSS requirements.

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