Secure Coding Review Report

The "Hackathon Starter" project was scanned for security vulnerabilities using the "npm audit" tool. This scan has identified several high-severity vulnerabilities like cross-site request forgery (CSRF), denial of service (DoS), and uncontrolled resource consumption. This report provides a overview of urgent fixes of five vulnerabilities.

Detailed Vulnerabilities

1. Axios Cross-Site Request Forgery (CSRF) [< v0.27.2]

- Severity: High
- **Info:** CSRF is a web security vulnerability that tricks a web browser into executing an unwanted action on a trusted site
- Fix: Update axios to version 0.27.2 or later by running the following command:
 npm audit fix

2. body-parser Denial of Service (DoS) [< v1.20.3]

- Severity: High
- Info: DoS floods the server and prevents user from connecting to it.
- Fix: Upgrade to body-parser version 1.20.3 or later:
 npm install body-parser@latest

3. Uncontrolled Resource Consumption in Braces [< v3.0.3]

- Dependency: braces
- Severity: High
- **Info:** An attacker can cause the application to allocate excessive memory and potentially crash by sending imbalanced braces as input.

Vulnerability 4: Cookie Vulnerability [< v0.7.0]

- Dependency: cookie
- Severity: High
- **Info:** A cookie vulnerability is a weakness in a cookie that can allow an attacker to access sensitive user data.

5. Regular Expression Denial of Service (ReDoS) [< v7.0.4]

• Dependency: cross-spawn

• Severity: High

• **Info:** A **Regular Expression Denial of Service (ReDoS)** attack occurs when an attacker crafts an input that exploits the way a regular expression is processed, leading to excessive resource consumption (CPU and memory) on the target system.