

**Taisen**

**Security**

**Whitepaper**

# SECURITY WHITEPAPER

[TAISEN SEARCH ENGINE]

COMPREHENSIVE SECURITY OVERVIEW

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## 1.1 Executive Summary

Taisen Search Engine is developed and maintained by The Taisen Team, a dedicated solo programming effort focused on delivering secure, privacy-preserving search technology. This document outlines our security architecture, controls, and compliance measures.

## 1.2 Security Philosophy

- Security by Design: Security integrated into every development phase
- Defense in Depth: Multiple security layers protecting user data
- Privacy First: User privacy as a core requirement, not an afterthought
- Transparent Operations: Clear documentation of security practices

## 1.3 Infrastructure Security

Hosting & Network Security:

- Cloudflare: Enterprise-grade DDoS protection, WAF, and CDN services
- Netlify: Secure application hosting with automated deployments
- Global CDN: Distributed infrastructure for performance and reliability

Data Protection:

- Encryption at Rest: All user data encrypted using AES-256
- Encryption in Transit: TLS 1.3 for all data transmissions
- Secure Authentication: Firebase Auth with secure session management

## 1.4 Compliance Status

- GDPR Compliant: Adherence to General Data Protection Regulation
- Philippine Data Privacy Act (RA 10173): Fully compliant
- Regular Security Assessments: Ongoing security monitoring and testing

## 1.5 Security Controls

### Access Controls:

- Multi-factor authentication enforcement
- Role-based access control
- API key management and rotation
- Secure password policies

### Monitoring & Logging:

- Comprehensive activity logging
- Security event monitoring
- Regular security reviews
- Incident response procedures

# IMPLEMENTATION CHECKLIST

## SECURITY CONFIGURATION VERIFICATION

### 2.1 Infrastructure Security

- Cloudflare WAF enabled and configured
- DDoS protection active
- TLS 1.3 enforced
- Security headers implemented
- Rate limiting configured
- Bot management enabled

### 2.2 Application Security

- Input validation implemented

- Output encoding applied
- Authentication secured
- Session management protected
- API security configured
- Error handling secured

## 2.3 Data Protection

- Encryption at rest enabled
- Encryption in transit enforced
- Access controls configured
- Data classification implemented
- Backup encryption enabled
- Secure deletion procedures

## 2.4 Monitoring & Response

- Security logging enabled
- Monitoring configured
- Alerting set up
- Incident response plan
- Regular testing scheduled
- Documentation maintained

## CONTACT INFORMATION

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[Subject: SECURITY EMERGENCY - Taisen Search Engine]

## DOCUMENT MANAGEMENT

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Maintainer: The Taisen Team

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- v2.0: Comprehensive Update (October 2025)

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