



Security Policy

Supported Versions

We actively support the following versions with security updates:

| Version | Supported |
|---------|-----------|
| 1.x.x | ✓ Yes |
| < 1.0 | ✗ No |



Security Features

Authentication & Authorization

- **NextAuth.js** integration with secure session management
- **Role-based access control** (Admin/Participant)
- **Configurable authentication** (authenticated vs anonymous modes)
- **Session timeout** and automatic logout
- **CSRF protection** built into NextAuth

Data Protection

- **Input validation** on all user inputs using Zod schemas
- **SQL injection prevention** through Prisma ORM
- **File upload restrictions** with type and size validation
- **Secure file serving** through controlled API endpoints
- **Environment variable protection** for sensitive data

Network Security

- **HTTPS enforcement** in production environments
- **CORS configuration** for cross-origin requests
- **Rate limiting** capabilities (configurable)
- **Secure headers** implementation



Reporting a Vulnerability

We take security vulnerabilities seriously. If you discover a security issue, please follow responsible disclosure:

How to Report

1. **DO NOT** create a public GitHub issue for security vulnerabilities
2. **Email us directly** at: [security@yourdomain.com] (replace with your email)
3. **Include detailed information:**
 - Description of the vulnerability

- Steps to reproduce
- Potential impact
- Suggested fix (if you have one)

What to Expect

- **Acknowledgment:** We'll respond within 48 hours
- **Assessment:** Initial assessment within 5 business days
- **Updates:** Regular updates on investigation progress
- **Resolution:** Fix timeline depends on severity
- **Disclosure:** Coordinated disclosure after fix is deployed

Response Timeline

| Severity | Response Time | Fix Timeline |
|----------|---------------|--------------|
| Critical | 24 hours | 7 days |
| High | 48 hours | 14 days |
| Medium | 5 days | 30 days |
| Low | 7 days | 60 days |



Security Best Practices

For Developers

Input Validation

```
// Always validate user input
import { z } from 'zod'

const sessionSchema = z.object({
  title: z.string().min(1).max(100),
  description: z.string().max(500).optional(),
  isPublic: z.boolean()
})

// Use the schema to validate
const validatedData = sessionSchema.parse(userInput)
```

File Upload Security

```
// Validate file types and sizes
const allowedTypes = ['.jpg', '.jpeg', '.png', '.gif', '.pdf']
const maxSize = 10 * 1024 * 1024 // 10MB

if (!allowedTypes.includes(fileExtension)) {
  throw new Error('Invalid file type')
}

if (fileSize > maxSize) {
  throw new Error('File too large')
}
```

Database Security

```
// Use Prisma parameterized queries (automatic protection)
const user = await prisma.user.findUnique({
  where: { id: userId }, // Safe from SQL injection
  select: { id: true, name: true } // Only select needed fields
})
```

For Administrators

Environment Security

```
# Use strong secrets
NEXTAUTH_SECRET=$(openssl rand -base64 32)

# Use environment-specific URLs
NEXTAUTH_URL="https://yourdomain.com" # Production
# NEXTAUTH_URL="http://localhost:3000" # Development only

# Secure database connections
DATABASE_URL="postgresql://user:password@host:5432/db?sslmode=require"
```

File System Security

```
# Set proper permissions for uploads
chmod 755 uploads/
chown www-data:www-data uploads/

# Regular cleanup of temporary files
find uploads/ -type f -mtime +30 -delete
```

For Deployments

HTTPS Configuration

- **Always use HTTPS** in production
- **Configure secure headers**
- **Use proper SSL certificates**
- **Enable HSTS** (HTTP Strict Transport Security)

Database Security

- **Use SSL connections** for database

- **Regular database backups**
- **Principle of least privilege** for database users
- **Network isolation** for database servers

Server Security

- **Keep systems updated**
- **Use firewalls** to restrict access
- **Monitor logs** for suspicious activity
- **Regular security audits**

Security Checklist

Pre-Deployment

- ☐ All dependencies updated to latest secure versions
- ☐ Environment variables properly configured
- ☐ HTTPS configured and tested
- ☐ Database connections use SSL
- ☐ File upload restrictions in place
- ☐ Authentication flows tested
- ☐ Input validation on all forms
- ☐ Error messages don't leak sensitive information

Post-Deployment

- ☐ Security headers configured
- ☐ Monitoring and logging in place
- ☐ Regular backup schedule established
- ☐ Access controls reviewed
- ☐ Incident response plan documented

Regular Maintenance

- ☐ Monthly dependency updates
- ☐ Quarterly security reviews
- ☐ Regular penetration testing
- ☐ Log review and analysis
- ☐ Backup restoration testing

Known Security Considerations

File Uploads

- **Risk:** Malicious file uploads
- **Mitigation:** File type validation, size limits, virus scanning
- **Monitoring:** Track unusual upload patterns

Session Management

- **Risk:** Session hijacking
- **Mitigation:** Secure session tokens, HTTPS, session timeout

- **Monitoring:** Monitor for unusual session activity

Database Access

- **Risk:** Unauthorized data access
- **Mitigation:** Role-based access, encrypted connections
- **Monitoring:** Database query logging



Security Resources

Dependencies

We use these security-focused packages:

- **NextAuth.js:** Authentication and session management
- **Prisma:** ORM with built-in SQL injection protection
- **Zod:** Runtime type validation
- **bcryptjs:** Secure password hashing

External Resources

- [OWASP Top 10](https://owasp.org/www-project-top-ten/) (https://owasp.org/www-project-top-ten/)
- [Next.js Security Guidelines](https://nextjs.org/docs/advanced-features/security-headers) (https://nextjs.org/docs/advanced-features/security-headers)
- [Node.js Security Best Practices](https://nodejs.org/en/docs/guides/security/) (https://nodejs.org/en/docs/guides/security/)



Security Credits

We appreciate security researchers and developers who help improve our security:

- Report security issues responsibly
- Contribute security improvements
- Review and suggest security enhancements

Recognition

Contributors who report valid security issues will be:

- Credited in release notes (if desired)
- Listed in our security acknowledgments
- Invited to test fixes before public release

Security is everyone's responsibility. Thank you for helping keep our users safe! 🛡️