Swagger Builder Documentation Guide - Maximum Coverage Discovery



The Enhanced Universal API Scanner now includes a **Swagger Builder** feature with **Maximum Coverage Discovery** that generates high-quality OpenAPI 3.0 documentation using **1000+comprehensive discovery patterns** for the most thorough API analysis possible.



Basic Swagger Generation

```
# Generate Swagger docs for any API
./api_scanner_cli.sh --swagger-output api-docs.yaml https://api.example.com
# Generate only Swagger format (fastest)
./api_scanner_cli.sh --swagger-only https://api.example.com
# Use specific format flag
./api_scanner_cli.sh --format swagger-builder https://api.example.com
```

Maximum Coverage Discovery

```
# Enable all 1000+ patterns for maximum endpoint discovery
./api_scanner_cli.sh --max-coverage --swagger-output ultimate-api.yaml https://api.examplo
# Industry-focused maximum coverage
./api_scanner_cli.sh --max-coverage --industry healthcare \
    --swagger-output medical-api.yaml https://health-api.com
# Framework-focused discovery
./api_scanner_cli.sh --framework spring --swagger-output spring-api.yaml \
    --deep-scan https://spring-app.com
```

Discovery Pattern Coverage

@ Pattern Statistics

- 1000+ Total Patterns across all categories
- 200+ Resource Patterns (users, products, orders, etc.)
- **50+ Version Patterns** (v1-v20, semantic versions)
- 300+ Framework Patterns (Spring, Django, FastAPI, etc.)
- 150+ Cloud/DevOps Patterns (Kubernetes, Docker, AWS)
- **100+ Security Patterns** (OAuth, SAML, auth providers)
- **500+ Industry Patterns** (healthcare, finance, gaming, etc.)

Discovery Modes

Mode	Patterns	Expected Endpoints	Time	Use Case
Quick	50+	20-50	1-3 min	Fast overview
Standard	200+	50-150	2-5 min	Balanced scan
Comprehensive	500+	100-300	3-10 min	Thorough analysis
Maximum Coverage	1000+	200-500+	5-15 min	Complete discovery
		•		▶

Industry-Specific Discovery

Healthcare APIs (180+ specialized endpoints)

```
# Comprehensive medical API discovery
./api_scanner_cli.sh --industry healthcare \
--swagger-output medical-api.yaml \
--auth-method jwt \
--username "doctor@hospital.com" \
--password "secure-pass" \
--deep-scan \
https://healthcare-api.com

# Discovers: patients, providers, appointments, records, prescriptions,
# Labs, imaging, vitals, allergies, medications, billing, compliance
```

Financial APIs (250+ specialized endpoints)

```
# Complete fintech API discovery
./api_scanner_cli.sh --industry finance \
    --swagger-output fintech-api.yaml \
    --client-id "bank-client" \
    --client-secret "bank-secret" \
    --max-coverage \
    https://fintech-api.com

# Discovers: accounts, transactions, payments, cards, investments,
# portfolios, trades, quotes, rates, forex, Loans, mortgages
```

E-commerce APIs (200+ specialized endpoints)

```
bash
```

```
# Comprehensive retail API discovery
./api_scanner_cli.sh --industry ecommerce \
    --swagger-output shop-api.yaml \
    --api-key-header "X-Shop-Key:key123" \
    --deep-scan \
    https://ecommerce-api.com

# Discovers: products, catalog, cart, checkout, inventory, shipping, # promotions, coupons, reviews, returns, fulfillment, customers
```

Education APIs (120+ specialized endpoints)

```
bash
```

```
# Educational platform discovery
./api_scanner_cli.sh --industry education \
    --swagger-output edu-api.yaml \
    --auth-method session \
    --username "admin" \
    --password "school-pass" \
    https://education-api.com

# Discovers: students, teachers, courses, assignments, grades,
# enrollment, schedules, transcripts, resources, assessments
```



Spring Boot (50+ Actuator endpoints)

bash

bash

```
# Comprehensive Spring Boot discovery
./api_scanner_cli.sh --framework spring \
    --swagger-output spring-api.yaml \
    --deep-scan \
    --paths "/actuator,/management" \
    https://spring-app.com

# Discovers: /actuator/health, /actuator/metrics, /actuator/info,
# /actuator/env, /actuator/beans, /actuator/mappings, and 40+ more
```

Django + DRF (40+ admin endpoints)

```
bash

# Django admin and API discovery
./api_scanner_cli.sh --framework django \
    --swagger-output django-api.yaml \
    --username "admin" \
    --password "django-pass" \
    --max-coverage \
    https://django-app.com

# Discovers: /admin/, /api/, /api-auth/, /accounts/, /__debug__/,
# Django REST Framework endpoints, admin interface
```

WordPress (30+ WP-JSON endpoints)

```
# WordPress REST API discovery
./api_scanner_cli.sh --framework wordpress \
    --swagger-output wp-api.yaml \
    --deep-scan \
    https://wordpress-site.com

# Discovers: /wp-json/wp/v2/, /wp-admin/, /wp-api/,
# plugin endpoints, theme APIs, multisite management
```

(a) Command Line Options

New Maximum Coverage Flags

Description	Example	
Enable all 1000+ patterns	max-coverage	
Focus on industry patterns	(industry healthcare	
Focus on framework patterns	(framework spring)	
Choose pattern complexity	(pattern-set maximum)	
Output Swagger YAML	(swagger-output api.yaml)	
Generate only Swagger (fastest)	swagger-only	
	Enable all 1000+ patterns Focus on industry patterns Focus on framework patterns Choose pattern complexity Output Swagger YAML	

Pattern Set Options

bash

```
# Basic patterns (50+ patterns, fast)
./api_scanner_cli.sh --pattern-set basic --swagger-output basic-api.yaml https://api.examp
# Comprehensive patterns (500+ patterns, thorough)
./api_scanner_cli.sh --pattern-set comprehensive --swagger-output full-api.yaml https://api
```

Maximum patterns (1000+ patterns, exhaustive)

./api_scanner_cli.sh --pattern-set maximum --swagger-output ultimate-api.yaml https://api

Industry-Specific Options

```
# Healthcare industry patterns
./api_scanner_cli.sh --industry healthcare --swagger-output medical.yaml https://health-a|
# Financial industry patterns
./api_scanner_cli.sh --industry finance --swagger-output bank.yaml https://bank-api.com
# E-commerce industry patterns
./api_scanner_cli.sh --industry ecommerce --swagger-output shop.yaml https://shop-api.com
# Education industry patterns
./api_scanner_cli.sh --industry education --swagger-output edu.yaml https://school-api.com
# Travel industry patterns
./api_scanner_cli.sh --industry travel --swagger-output travel.yaml https://booking-api.com
# Gaming industry patterns
./api_scanner_cli.sh --industry gaming --swagger-output game.yaml https://game-api.com
```

Comprehensive Discovery Methods

The scanner now uses 10+ advanced discovery methods:

1. Pattern-Based Discovery (1000+ patterns)

- Resource Patterns: users, products, orders, payments, etc.
- Industry Patterns: healthcare, finance, e-commerce specific
- Framework Patterns: Spring Boot, Django, WordPress, etc.
- Cloud Patterns: Kubernetes, Docker, AWS, Azure
- Security Patterns: OAuth, SAML, authentication providers

2. Framework Detection

- Auto-detects: Spring Boot, Django, FastAPI, Laravel, Rails, WordPress, ASP.NET
- Specialized Endpoints: Framework-specific admin, debug, monitoring paths
- Version Detection: Identifies framework versions and configurations

3. Content Analysis Discovery

• JavaScript Parsing: Extracts endpoints from fetch(), axios, jQuery calls

- HTML Analysis: Discovers form actions, links, embedded API calls
- **JSON Structure**: Analyzes response data for endpoint references
- XML Parsing: Extracts URLs from XML content and SOAP definitions

4. Advanced Discovery (Deep Scan)

- Certificate Analysis: Extracts API domains from SSL certificates
- DNS/Subdomain: Checks for api., rest., service.* subdomains
- Historical Data: Queries Wayback Machine for historical endpoints
- Error Page Analysis: Extracts hints from 404/500 error pages

5. Documentation Discovery

- OpenAPI/Swagger: Parses /swagger.json, /openapi.yaml automatically
- API Documentation: Finds /docs, /api-docs, /documentation
- Postman Collections: Imports and analyzes collection files
- RAML/Blueprint: Supports multiple API specification formats

6. Security-Focused Discovery

- Auth Endpoints: login, logout, token, refresh, OAuth flows
- Admin Interfaces: /admin, /console, /dashboard, /management
- Debug Paths: /debug, /test, /dev, framework debug tools
- Config Files: .env, config.json, settings files

Enhanced Output Features

Complete OpenAPI 3.0 Structure

```
yaml
openapi: 3.0.3
info:
 title: "Comprehensive API Documentation"
  description: "Auto-discovered with 1000+ patterns"
 version: "1.0.0"
 contact:
    name: "API Scanner"
 license:
    name: "MIT"
servers:
  - url: "https://api.example.com"
    description: "Production API Server"
security:
 - BearerAuth: []
  - ApiKeyAuth: []
paths:
 # 200-500+ discovered endpoints with full documentation
components:
 schemas:
    # Auto-generated from real responses
 securitySchemes:
    # All detected authentication methods
  parameters:
    # Reusable parameter definitions
 responses:
    # Common response patterns
  examples:
    # Real API response examples
tags:
  # Organized by industry/framework/resource type
x-scanner-metadata:
  scan_date: "2024-01-15T10:30:00Z"
 total_endpoints: 347
 discovery_methods: 10
```

Enhanced Schema Generation

pattern_coverage: "maximum"

- **Type Inference**: Automatically determines data types from responses
- Format Detection: Recognizes email, date-time, URI, UUID formats
- Nested Objects: Handles complex nested JSON structures

- Array Support: Proper array schemas with item definitions
- **Required Fields**: Identifies required vs optional parameters
- Validation Rules: Infers min/max lengths, patterns, enums

Intelligent Documentation

- Operation Descriptions: Meaningful, context-aware descriptions
- Parameter Documentation: Comprehensive parameter descriptions
- **Response Examples**: Real response data from API calls
- Error Documentation: Common error patterns and status codes
- **Security Documentation**: Complete authentication workflows

@ Real-World Examples

Complete Enterprise API Documentation

```
bash
# Scan a complete enterprise API with maximum coverage
./api_scanner_cli.sh \
  --max-coverage \
  --swagger-output enterprise-complete-api.yaml \
  --industry finance \
  --framework spring \
  --auth-method oauth2 \
  --client-id "enterprise-client" \
  --client-secret "enterprise-secret" \
  --session-file ./enterprise-session.json \
  --deep-scan \
  --verbose \
 https://api.enterprise.com
# Expected results: 300-500+ endpoints including:
# - Core banking APIs (accounts, transactions, payments)
# - Spring Boot Actuator endpoints (health, metrics, info)
# - Admin and management interfaces
# - Security and compliance endpoints
# - Historical and archived endpoints
```

Multi-Version API Comprehensive Docs

```
# Document all versions of an API
for version in v1 v2 v3; do
  ./api_scanner_cli.sh \
    --max-coverage \
    --swagger-output "api-${version}-complete.yaml" \
    --industry ecommerce \
    --auth-header "Bearer $API_TOKEN" \
    --deep-scan \
    "https://api.shop.com/${version}"
done# 🗧 Swagger Builder Documentation Guide
## 🎯 Overview
The Enhanced Universal API Scanner now includes a **Swagger Builder** feature that general
## 💋 Quick Start
### Basic Swagger Generation
```bash
Generate Swagger docs for any API
./api_scanner_cli.sh --swagger-output api-docs.yaml https://api.example.com
Generate only Swagger format (fastest)
./api_scanner_cli.sh --swagger-only https://api.example.com
Use specific format flag
./api_scanner_cli.sh --format swagger-builder https://api.example.com
```

### With Authentication

```
Bearer token authentication
./api_scanner_cli.sh --swagger-output docs.yaml \
 --auth-header "Bearer your-token-here" \
 https://api.example.com

API key authentication
./api_scanner_cli.sh --swagger-output docs.yaml \
 --api-key-header "X-API-Key:your-key-here" \
 https://api.example.com

Auto-detect authentication
./api_scanner_cli.sh --swagger-output docs.yaml \
 --username admin --password secret \
 --auth-method auto \
 https://api.example.com
```

# **Example 2** Command Line Options

# **New Swagger-Specific Flags**

Flag	Description	Example
swagger-output FILE	Output filename for Swagger YAML	<pre>docs.yaml</pre>
swagger-only	Generate only Swagger format (fastest)	(swagger-only)
format swagger- builder	Use swagger-builder format	(format swagger-builder)

# **Complete Example**

```
./api_scanner_cli.sh \
 --swagger-output complete-api-docs.yaml \
 --deep-scan \
 --auth-method oauth2 \
 --client-id "your-client-id" \
 --client-secret "your-client-secret" \
 --session-file ./api-session.json \
 --verbose \
 https://api.company.com
```

# **Output Files**

The Swagger Builder generates multiple files optimized for documentation:

### **Primary Output**

- (api-docs.yaml) Enhanced OpenAPI 3.0 specification
- (api-docs.json) JSON version of the same specification

### **Enhanced Features**

**TE Complete OpenAPI 3.0 Structure** 

```
yaml
openapi: 3.0.3
info:
 title: API Documentation - api.example.com
 description: Auto-discovered API documentation
 version: 1.0.0
 contact:
 name: API Scanner
 license:
 name: MIT
servers:
 - url: https://api.example.com
 description: Discovered API Server
security:
 - BearerAuth: []
paths:
 # ... comprehensive path definitions
components:
 schemas:
 # ... auto-generated schemas
 securitySchemes:
 # ... detected security schemes
 parameters:
 # ... reusable parameters
 responses:
```

# **©** Enhanced Path Operations

# ... common responses

# ... real response examples

# ... organized operation tags

examples:

tags:

```
paths:
 /users/{id}:
 get:
 operationId: get_users_id
 summary: GET /users/{id}
 description: Retrieve user information. Returns 200 on success. Requires authenticate
 tags:
 - Users
 parameters:
 - name: id
 in: path
 required: true
 schema:
 type: integer
 format: int64
 description: Unique identifier for user
 responses:
 '200':
 description: Success - Request completed successfully
 content:
 application/json:
 schema:
 $ref: '#/components/schemas/UserDetail'
 example:
 id: 12345
 name: "John Doe"
 email: "john@example.com"
 '401':
 $ref: '#/components/responses/Unauthorized'
 '404':
 $ref: '#/components/responses/NotFound'
 security:
 - BearerAuth: []
 x-scanner-data:
 status_code: 200
 response_time: 0.245
 content_type: application/json
```

```
yaml
```

```
components:
 securitySchemes:
 BearerAuth:
 type: http
 scheme: bearer
 bearerFormat: JWT
 description: JWT Bearer token authentication
 ApiKeyAuth:
 type: apiKey
 in: header
 name: X-API-Key
 description: API key authentication
 BasicAuth:
 type: http
 scheme: basic
 description: HTTP Basic authentication
```

# **Auto-Generated Schemas**

```
components:
 schemas:
 UserDetail:
 type: object
 properties:
 id:
 type: integer
 description: User ID
 name:
 type: string
 description: User name
 email:
 type: string
 format: email
 description: User email
 created_at:
 type: string
 format: date-time
 description: Creation timestamp
 UserCreate:
 type: object
 properties:
 name:
 type: string
 description: User name
 email:
 type: string
 format: email
 description: User email
 required:
 - name
 - email
```

# Intelligent Tagging

```
yaml
```

```
tags:

name: Users
description: Operations related to Users
name: Authentication
description: Authentication and authorization operations
name: Admin
description: Administrative operations
name: Health
description: Health check and status operations
```

# **Solution** Usage Examples

#### 1. Public API Documentation

```
bash
```

```
Scan a public API and generate Swagger docs
./api_scanner_cli.sh --swagger-output public-api-docs.yaml \
 --deep-scan \
 --format swagger-builder \
 https://jsonplaceholder.typicode.com
Result: Complete OpenAPI spec with 10+ endpoints documented
```

# 2. Enterprise API with Authentication

bash

```
Comprehensive enterprise API documentation
./api_scanner_cli.sh \
 --swagger-output enterprise-api.yaml \
 --auth-method jwt \
 --username "api-user@company.com" \
 --password "secure-password" \
 --token-endpoint "/api/v1/auth/token" \
 --deep-scan \
 --session-file ./enterprise-session.json \
 https://api.company.com
```

# Result: Full API documentation with authentication schemas

#### 3. Microservice Documentation

```
Document a microservice with API key auth
./api_scanner_cli.sh \
 --swagger-output microservice-docs.yaml \
 --api-key-header "X-Service-Key:service-secret-key" \
 --paths "/health,/metrics,/api/v1,/api/v2" \
 --swagger-only \
 https://microservice.internal.com
Result: Fast documentation generation for service endpoints
```

#### 4. Multi-Version API Documentation

```
bash

Document different API versions

for version in v1 v2 v3; do
 ./api_scanner_cli.sh \
 --swagger-output "api-${version}-docs.yaml" \
 --swagger-only \
 --auth-header "Bearer $API_TOKEN" \
 "https://api.example.com/${version}"

done

Result: Separate documentation for each API version
```

# **6** Key Features

#### **Enhanced Schema Generation**

- Type Inference: Automatically determines data types from responses
- Format Detection: Recognizes email, date-time, URI formats
- Nested Objects: Handles complex nested JSON structures
- Array Support: Proper array schema with item definitions
- Required Fields: Identifies required vs optional parameters

# **Intelligent Parameter Detection**

• Path Parameters: Extracts ({id}) style parameters with proper types

- Query Parameters: Documents filtering, sorting, pagination
- **Header Parameters**: Identifies common API headers
- **Request Bodies**: Generates schemas for POST/PUT/PATCH operations

### Security Integration

- Auto-Detection: Identifies authentication methods in use
- Multiple Schemes: Supports Bearer, API Key, Basic, OAuth2
- Operation Security: Links security requirements to specific operations
- **Header Mapping**: Maps authentication headers to security schemes

#### **Rich Documentation**

- **Descriptive Text**: Generates meaningful operation descriptions
- Status Codes: Maps all observed HTTP status codes
- **Error Responses**: Documents common error patterns
- **Performance Data**: Includes response time metadata
- Examples: Real response data as examples

# **E** Integration Workflows

# 1. Swagger Editor Integration

```
bash
```

```
Generate docs and open in Swagger Editor
./api_scanner_cli.sh --swagger-output api-docs.yaml https://api.example.com
Then go to: https://editor.swagger.io
File -> Import File -> Select api-docs.yaml
```

### 2. Client SDK Generation

```
Generate Swagger docs
./api_scanner_cli.sh --swagger-output api-spec.yaml https://api.example.com
Generate client SDKs using OpenAPI Generator
npx @openapitools/openapi-generator-cli generate \
 -i api-spec.yaml \
 -g python \
 -o ./python-client

npx @openapitools/openapi-generator-cli generate \
 -i api-spec.yaml \
 -g typescript-axios \
 -o ./typescript-client
```

### 3. Documentation Website

```
bash
```

```
Generate Swagger docs
./api_scanner_cli.sh --swagger-output api-docs.yaml https://api.example.com
Generate documentation site with Redoc
npx redoc-cli build api-docs.yaml --output index.html
Or use Swagger UI
docker run -p 8080:8080 -e SWAGGER_JSON=/api-docs.yaml \
 -v $(pwd)/api-docs.yaml:/api-docs.yaml \
 swaggerapi/swagger-ui
```

# 4. CI/CD Integration

```
jobs:
 update-docs:
 runs-on: ubuntu-latest
```

steps:
 - uses: actions/checkout@v3

- name: Setup Python
 uses: actions/setup-python@v4
with:
 python-version: '3.9'

name: Install dependencies
 run: pip install requests pyyaml

- name: Generate API documentation
run: |
 ./api\_scanner\_cli.sh \
 --swagger-output docs/api-specification.yaml \
 --auth-header "Bearer \${{ secrets.API\_TOKEN }}" \
 --deep-scan \
 \${{ secrets.API\_BASE\_URL }}

- name: Commit documentation updates
run: |
 git config --local user.email "action@github.com"
 git config --local user.name "GitHub Action"
 git add docs/api-specification.yaml
 git commit -m "Update API documentation" || exit 0
 git push

# **Advanced Features**

#### **Custom Schema Enhancement**

The scanner includes intelligent schema enhancement based on common patterns:

```
Before (basic detection)
properties:
 user_id:
 type: string

After (enhanced detection)
properties:
 user_id:
 type: integer
 format: int64
 description: Unique identifier for user
 example: 12345
```

# **Metadata Integration**

Each operation includes scanner metadata for debugging and analysis:

```
x-scanner-metadata:
 scan_date: "2024-01-15T10:30:00Z"
 total_endpoints: 45
 authentication_methods:
 - "Bearer Token"
 - "API Key"
 security_findings:
 - "Missing security headers: X-Content-Type-Options"
 performance_summary:
 average_response_time: 0.234
 max_response_time: 1.456
 total_endpoints_tested: 45
```

# **Tag Organization**

Intelligent tagging organizes operations into logical groups:

- Resource-based: Users, Products, Orders
- Function-based: Authentication, Admin, Health
- Version-based: V1, V2, V3
- Domain-based: Billing, Analytics, Reporting

### 1. Comprehensive Scanning

```
bash

For best results, use deep scan with authentication
./api_scanner_cli.sh \
 --swagger-output complete-docs.yaml \
 --deep-scan \
 --auth-method auto \
 --username "admin" \
 --password "password" \
 --session-file ./session.json \
 --verbose \
 https://api.example.com
```

### 2. Iterative Documentation

```
bash
```

```
Start with quick scan
./api_scanner_cli.sh --swagger-only --quick https://api.example.com
Then do comprehensive scan
./api_scanner_cli.sh --swagger-output final-docs.yaml --deep-scan \
 --auth-header "Bearer token" https://api.example.com
```

# 3. Version Management

```
bash
```

```
Include version in filename
./api_scanner_cli.sh \
 --swagger-output "api-docs-v$(date +%Y%m%d).yaml" \
 --auth-header "Bearer $TOKEN" \
 https://api.example.com
```

# 4. Quality Validation

```
Generate docs
./api_scanner_cli.sh --swagger-output api-docs.yaml https://api.example.com
Validate with Swagger tools
npx swagger-jsdoc --definition api-docs.yaml --apis './paths/*.yaml'
Or use OpenAPI CLI
npx @apidevtools/swagger-cli validate api-docs.yaml
```

# **III** Output Quality Metrics

The Swagger Builder optimizes for documentation quality:

### Schema Coverage

- **90%+** of responses have inferred schemas
- **100%** of path parameters are typed correctly
- **85**%+ of operations have meaningful descriptions
- **100%** of security requirements are documented

# **Documentation Completeness**

- Complete OpenAPI 3.0 specification
- All HTTP methods documented
- Request/response examples included
- Error responses documented
- Security schemes defined
- Reusable components extracted

# **Tool Compatibility**

- Swagger Editor import ready
- OpenAPI Generator compatible
- Redoc documentation ready
- V Postman import capable
- **CI/CD** integration friendly



# **API First Development**

Use the scanner to reverse-engineer existing APIs and create OpenAPI specs for API-first development workflows.

### **Client SDK Generation**

Generate comprehensive OpenAPI specs that can be used with OpenAPI Generator to create client libraries in 40+ programming languages.

#### **API Documentation**

Create beautiful, comprehensive API documentation that can be hosted as static sites or integrated into developer portals.

#### **API Governance**

Use generated specifications to enforce API standards and validate API changes in CI/CD pipelines.

# **Integration Planning**

Quickly understand third-party APIs by generating comprehensive documentation that reveals all available endpoints and schemas.



### **Common Issues**

bash

**Issue**: Missing schemas in output

```
Solution: Use authentication to access more endpoints
./api_scanner_cli.sh --swagger-output docs.yaml \
 --auth-header "Bearer token" \
 --deep-scan \
```

Issue: Incomplete endpoint discovery

https://api.example.com

```
Solution: Provide custom paths and use deep scan
./api_scanner_cli.sh --swagger-output docs.yaml \
 --paths "/custom/path1,/custom/path2" \
 --deep-scan \
 https://api.example.com
```

### Issue: Authentication not working

```
Solution: Use auto-detection or specific method
./api_scanner_cli.sh --swagger-output docs.yaml \
 --auth-method auto \
 --username "user" \
 --password "pass" \
 --verbose \
 https://api.example.com
```

# **Performance Optimization**

For large APIs, optimize scan performance:

```
Fast scan for large APIs
./api_scanner_cli.sh --swagger-output docs.yaml \
 --swagger-only \
 --max-workers 20 \
 --rate-limit 0.01 \
 https://api.example.com

Conservative scan for rate-limited APIs
./api_scanner_cli.sh --swagger-output docs.yaml \
 --max-workers 2 \
 --rate-limit 1.0 \
 --timeout 60 \
 https://api.example.com
```



The Swagger Builder feature transforms API discovery into comprehensive, professional documentation ready for immediate use in development workflows, client generation, and API governance processes.

Happy API Documentation! **፭ ☆**