A LOCAL RECORD FOR API CHANGE REVIEW

SpecFold

Local API Change Review Studio

Snapshots, decisions, and evidence—kept together.

A single-operator workspace for comparing bounded OpenAPI JSON snapshots and keeping a durable review record on one local computer.

US$89 · one-time · source included · no SaaS subscription

What it is

SpecFold keeps imported OpenAPI snapshots immutable, compares a selected pair with explicit structural checks, and saves a review queue with owner, status, and notes. Export a portable review record when another person needs the evidence.

01 · Keep
Versioned source snapshots stay in a local project record.

02 · Review
Compare selected snapshots; annotate findings instead of treating a diff as a verdict.

03 · Carry
Export printable HTML, CSV, changes JSON, source specs, and a manifest.

A good fit
One designated operator who wants a durable local review trail around API-spec changes, with portable exports and local workspace recovery.

Not the goal
Not a hosted collaboration platform, full validator, API test runner, compatibility guarantee, or replacement for authoritative review and tests.

A SMALL, REAL-SOURCE EXAMPLE

From two specs to a review

The included Northstar Workshop API pair is fictional. These excerpts come from the supplied JSON samples—not from a fabricated application screen.

1 Import	2 Compare	3 Annotate	4 Export
A bounded JSON snapshot	Choose base and target	Keep status and notes	Carry the review record

Sample excerpt · before and candidate

BASE · 1.0.0

```
{
"parameter": {
"name": "season",
"in": "query",
"required": false
},
"item.properties": {
"id": {
"type": "string"
},
"title": {
"type": "string"
},
"room": {
"type": "string"
}
},
"item.required": [
"id",
"title"
],
"POST responses": [
"201",
"400"
]
}
```

CANDIDATE · 1.1.0

```
{
"parameter": {
"name": "season",
"in": "query",
"required": true
},
"item.properties": {
"id": {
"type": "string"
},
"title": {
"type": "string"
},
"room": {
"type": "string"
},
"capacity": {
"type": "integer"
}
},
"item.required": [
"id",
"title",
"room"
],
"POST responses": [
"201",
"409"
]
}
```

What the supplied pair illustrates

- The `season` query parameter changes from optional to required.
- The inline workshop-item schema adds `capacity` and changes its required-property list.
- The POST response list gains `409`; the sample also adds a PATCH operation and operation security.

SpecFold compares only its documented structural subset. Labels such as breaking-candidate, review-needed, and addition are prompts for human review—not release advice or a compatibility ruling.

WHAT YOU GET

Source-included, run locally

The app is a small local Python service with a browser interface. It binds to IPv4 loopback and stores workspace state locally in SQLite.

Application	Python source plus HTML, CSS, and JavaScript interface assets.
Example data	Fictional Northstar Workshop before/after OpenAPI JSON samples; optional demo seeding on an empty workspace.
Review exports	Individual CSV/JSON and a review ZIP with printable HTML, CSV, changes JSON, source specifications, and manifest.
Recovery	A separate versioned workspace backup/restore flow. Backups and exports can contain proprietary API data.

Quickstart

1. Extract the delivered source package and open a terminal in `SpecFold-v1.0.0`.

```
python3 app.py
```

2. Open the local address in a desktop browser. The default data directory is under the current user's home folder.

```
http://127.0.0.1:8765
```

3. To seed the included fictional comparison when the workspace is empty, start with:

```
python3 app.py --demo-data
```

Python 3.10+ and a desktop browser are required. No paid Python dependency or API account is required. Use `python3 app.py --help` for the optional port and data-directory settings; stop the process with Ctrl+C in the terminal.

Data care

Keep proprietary specifications, generated exports, and backups under your own data-handling rules. Local storage is not a promise of encryption or secure isolation.

READ BEFORE YOU BUY

Boundaries & license

SpecFold is deliberately narrow. The workflow is useful only when its limits match the job.

Input and analysis

- OpenAPI 3.0.x / 3.1.x JSON only; UTF-8, at most 2 MiB per document, 500 paths, and nesting depth 48.
- Selected structural comparisons: operations, parameters/requiredness, selected inline request/response schema properties, required membership and basic types, response codes, operation security, and descriptions.
- `$ref` values are retained and diffed as ordinary JSON fields; they are not resolved or fetched.
- Some changes are grouped or omitted; unknown or unsupported patterns may need manual inspection.
- No API execution, probing, migration generation, AI, CI integration, YAML, or general-purpose schema evaluation.

Deployment and use

- One purchasing business, one designated operator, one local computer at a time.
- No hosted/cloud service, LAN deployment, shared team use, authentication, or encryption guarantee.
- Linux with Chromium only is qualified; native Windows and macOS are not tested or qualified.
- Not a full validator and not a compatibility, conformance, security, compliance, or release verdict. Review authoritative specs and test actual behavior.
- Avoid storing credentials/secrets; the operator is responsible for local data protection and backups.

One-business private commercial license

Use is licensed to one business, one designated operator, and one local computer at a time. The business may modify the source internally and share generated review exports. Do not redistribute or resell the application or source, host it, expose it to a LAN, or deploy it for a team. The software is provided as-is; no support, maintenance, or future updates are promised.

A careful review aid—not a verdict

A change queue may miss meaningful changes or flag harmless ones. Treat each finding as a prompt to inspect the actual specifications and tests.

SpecFold v1.0.0 · Local API Change Review Studio · Zantro offical