

Domain Redirection

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Overview & Purpose



Domain redirection service: directs incoming requests from legacy domains to the correct target.



Purpose: validate and forward URLs seamlessly, returning 301 or 404 as appropriate.



Excel-based rules: maintain mappings (Source URL, Destination URL, Status Code) in redirects.xlsx.

Technology Stack



Programming
Language:
TypeScript



Web Framework:
Fastify



JavaScript
Libraries: Bun



Validation Library
: Zod



Logging: Pino
logger



Test framework:
Vitest

Features

📄 Excel Rules: Easy to update redirect rules by editing a spreadsheet.

🛡️ Validation: Uses Zod for safe URL and status code validation.

⚡ Fastify: Minimal, performant, and easily extendable.

🔥 Built-in Logging: Uses Fastify's Pino logger for request-aware logs.

✅ Unit Tested: Covered with Vitest to test valid, invalid, and missing scenarios.

Working Flow

