

Domain Redirection

- ▶ Presented By: Khadka Baniya
- ▶ Date: 10 July 2025
- ▶ Employee Id: 14010551

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) 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 manage redirect rules by updating an Excel file.

🛡️ Validation: Uses Zod to ensure only valid URLs are used.

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

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

⚡ Graceful Server Shutdown: handles SIGINT/SIGTERM cleanly

Working Flow

