

TESTS FOR ENGLISH ENDPOINTS - Document 5: Errors, Edge Cases & Security (English)

Overview

Security and edge-case tests tailored to English endpoints and English payload fields. These tests mirror the Spanish security tests but reference English field names.

1. Input validation and injection

1.1 SQL Injection attempt in consecutive

- `GET /api/english-invoices/00100010010000000001; DROP TABLE invoices;--` → 400 Bad Request with invalid format message.

1.2 XSS payload in `issuer.name` or `lineItems[].description`

- Provide `<script>` or `onerror` attributes → 400 with sanitized/blocked message.
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2. Malformed JSON

- Malformed JSON body for `/api/english-invoices/emit` → 400 JSON invalid message.
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3. Numeric extremes and negative values

- Negative `unitPrice` or enormous `quantity` → 400 with numeric validation messages.
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4. Rate limiting and DoS protection

- Rapidly POST 100 requests to `/api/english-invoices/emit` → after threshold (e.g., 50/min) expect 429 Too Many Requests and `Retry-After` header.
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5. Concurrency

- Simultaneous emissions produce unique `consecutive` values without collision.
 - Retrieve (`GET /api/english-invoices`) while writes happen → no partial corrupt data returned.
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6. Edge business logic

- Discounts greater than line item total → 400
 - Inconsistent summary totals → 400
 - Multiple taxes per line → accepted and properly summed
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7. File size limits and payloads

- Large payload > `MAX_FILE_SIZE` (10MB) → 413 Payload Too Large
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8. Authentication/authorization (if added later)

- Placeholder tests for future auth: 401 when token missing, 403 when insufficient scope.
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Summary - Document 5

- Security, robustness, and edge-case coverage for English endpoints
- Ready to convert into automated tests or Postman checks