

Backend Testing Checklist

How to remember testing the important things? Focus on requirements first. On top of this, use this checklist as a reminder for known cases and outcomes

API Response

Check the following

- HTTP status
- HTTP body fields data
- HTTP body schema
- Conforms to docs (e.g., OpenAPI)

Observability And Errors

Check the following, these are public outcomes

- Specific error was logged
- Error was sent to monitoring
- Error name/code is correct
- HTTP response status
- Process did/not exit

Security

Check the following basic security hygiene

- Insufficient claims yield 401 return
- Tenant-A can't see tenant-B data
- A role can't do more than allowed
- Expired claims yield 401

State (DB)

Check the following, preferably through API

- Records were saved/modified
- On failure, records were NOT saved
- None-relevant records are not modified
- Migration succeeded

Integrations

Check the following using a stub/mock/nock

- External service returns != 200
- External service is not responding
- A call to external service is well-formed
- External service responds slowly

Message Queues

Check the following unique MQ cases

- A message is published to a queue
- Received message is ACK/NACK (delete)
- Processing duplication is idempotency
- Received poisoned message is rejected
- Retry occurs on failure

Learn more at nodeconf testing workshop

www.nodeconfremote.com

