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)

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

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

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

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

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.nodeconfrremote.com