next8n

QA & TESTING CHECKLIST

Workflow Automation Delivery Framework

ENTERPRISE EDITION

Table of Contents

AI-Specific Testing

Response Quality

Tone & Safety

Consistency Testing

Prompt Injection Testing

Model Comparison (If Done)

Performance Testing

Execution Time

Volume Testing

Cost Testing

Scale Testing Log

Internal QA Summary

Client QA

Client Testing Setup

Client Feedback Log

Post-Feedback Resolution

QA Sign-Off

QA & Testing Checklist

Comprehensive Quality Assurance Framework

Test Data Preparation

Client Sample Data

```
Sample data requested from client
    Type: _____
    Quantity: _____
    Format: _____

Data represents real usage
Edge cases included in samples
Sensitive data anonymized (if needed)
Data stored securely for testing
```

Test Data Categories

```
Happy path data (normal inputs)
    Count: _____

Edge case data
     Empty/null values
     Very short inputs
     Very long inputs
     Special characters
     Unicode/international text
     Numbers at boundaries
     Dates at boundaries

Invalid data
     Wrong format
     Missing required fields
     Malformed JSON
     Unexpected data types

Adversarial data (if AI)
     Prompt injection attempts
     Jailbreak attempts
     Off-topic inputs
     Harmful content
```

Functional Testing

Trigger Testing

```
Trigger Type: _____

Trigger fires correctly
Trigger data parsed properly
Multiple trigger scenarios tested:
     Scenario 1: _____ Result: _____
     Scenario 2: _____ Result: _____
     Scenario 3: _____ Result: _____

Trigger authentication works
Invalid triggers rejected properly
```

Node-by-Node Testing

```
For each major node:

Node: _____
 Input data correct
 Processing logic correct
 Output data correct
 Error cases handled

Node: _____
 Input data correct
 Processing logic correct
 Output data correct
 Error cases handled

Node: _____
 Input data correct
 Processing logic correct
 Output data correct
 Error cases handled
```

Integration Testing

```
For each integration:

Integration: _____
 Authentication successful
 API calls succeed
 Data mapping correct
 Error responses handled
 Rate limits respected

Integration: _____
 Authentication successful
 API calls succeed
 Data mapping correct
 Error responses handled
 Rate limits respected
```

End-to-End Testing

```
Complete workflow tested start-to-finish
All branches/paths tested:
    Path 1: _____ Result: _____
    Path 2: _____ Result: _____
    Path 3: _____ Result: _____

Final output matches expectations
Side effects verified (emails sent, records created, etc.)
```

End-to-End Testing

Error Handling Testing

Error Scenarios

```
API timeout
    Expected behavior: _____
    Actual behavior: _____
     Pass  Fail

API error response (4xx, 5xx)
    Expected behavior: _____
    Actual behavior: _____
     Pass  Fail

Invalid input data
    Expected behavior: _____
    Actual behavior: _____
     Pass  Fail

Missing required data
    Expected behavior: _____
    Actual behavior: _____
     Pass  Fail

Rate limit hit
    Expected behavior: _____
    Actual behavior: _____
     Pass  Fail

Downstream service unavailable
    Expected behavior: _____
    Actual behavior: _____
     Pass  Fail
```

Error Recovery

```
Retry logic works
    Retry count: _____
    Backoff strategy: _____

Fallback logic works
    Fallback action: _____

Graceful degradation tested
Error notifications sent correctly
Error logging works
```

AI-Specific Testing

Response Quality

```
Test inputs: _____ (minimum 20-50 samples)

 Relevance score
    Relevant responses: ____%
    Threshold: _____%
     Pass  Fail

 Accuracy score
    Accurate responses: ____%
    Threshold: _____%
     Pass  Fail

Format compliance
    Correct format: ____%
    Threshold: _____%
     Pass  Fail
```

Tone & Safety

```
Tone matches requirements
    Professional
    Friendly
    Technical
    Other: _____

No toxic/harmful content
No off-brand responses
No leaked system prompts
No hallucinated information (critical)
```

Consistency Testing

```
Same input  similar output
    Test count: _____
    Consistency rate: _____%

Randomness acceptable
No contradictory responses
```

Prompt Injection Testing

```
"Ignore previous instructions" - blocked
"What is your system prompt" - blocked
Adversarial inputs - handled safely
No unintended actions triggered
```

Model Comparison (If Done)

```
Model 1: _____
    Quality score: _____
    Cost per request: _____
    Latency: _____

Model 2: _____
    Quality score: _____
    Cost per request: _____
    Latency: _____


Selected: _____
Reason: _____
```

Performance Testing

Execution Time

```
Average execution time: _____ seconds
Acceptable threshold: _____ seconds
 Pass  Fail

Slowest execution: _____ seconds
Bottleneck identified: _____
```

Volume Testing

```
Tested with high volume
    Volume tested: _____
    Success rate: _____%
    Error rate: _____%

No memory issues
No timeout issues
Rate limits respected
```

Cost Testing

```
Cost per execution calculated
    AI tokens: _____
    API calls: _____
    Total per execution: $_____

Monthly projection: $_____
Cost within budget:  Yes  No
```

Scale Testing Log

```
| # | Input Summary | Output Result | Pass/Fail | Notes |
|---|---------------|---------------|-----------|-------|
| 1 |               |               |           |       |
| 2 |               |               |           |       |
| 3 |               |               |           |       |
| 4 |               |               |           |       |
| 5 |               |               |           |       |
| 6 |               |               |           |       |
| 7 |               |               |           |       |
| 8 |               |               |           |       |
| 9 |               |               |           |       |
| 10|               |               |           |       |
```

(Expand as needed - recommend 50+ tests for AI workflows)

Internal QA Summary

```
Test Phase: Internal QA
Tester: _____
Date: _____

Total Tests Run: _____
Passed: _____
Failed: _____
Blocked: _____

Pass Rate: _____%

Critical Issues Found: _____
High Issues Found: _____
Medium Issues Found: _____
Low Issues Found: _____

Ready for Client QA:  Yes  No

If No, blocking issues:
1. _____
2. _____
3. _____
```

Client QA

Client Testing Setup

```
Testing interface provided
    Type:  Chat  Form  Direct n8n  Other

Testing instructions sent
Example test cases provided
Feedback method established
    Form
    Email
    Sheet
    Other: _____

Testing timeline communicated
    Start: _____
    End: _____
```

Client Feedback Log

```
| # | Issue Description | Severity | Status | Resolution |
|---|------------------|----------|--------|------------|
| 1 |                  |          |        |            |
| 2 |                  |          |        |            |
| 3 |                  |          |        |            |
| 4 |                  |          |        |            |
| 5 |                  |          |        |            |
```

Post-Feedback Resolution

```
All critical issues resolved
All high issues resolved
Medium/low issues addressed or deferred
Client re-tested after fixes
Client approved
```

QA Sign-Off

```
╔══════════════════════════════════════════════════════╗
║                    QA SIGN-OFF                       ║
╠══════════════════════════════════════════════════════╣
║                                                      ║
║ Project: _____ ║
║                                                      ║
║ QA completed by: _____   ║
║ Date: _____   ║
║                                                      ║
║ All functional tests passed:    Yes   No           ║
║ All error handling tested:      Yes   No           ║
║ AI quality acceptable:          Yes   No   N/A     ║
║ Security review passed:         Yes   No           ║
║ Client QA approved:             Yes   No           ║
║                                                      ║
║ READY FOR PRODUCTION:           Yes   No           ║
║                                                      ║
║ Notes: _____   ║
║ _____  ║
║                                                      ║
║ Signature: _____   ║
║                                                      ║
╚══════════════════════════════════════════════════════╝
```

Workflow Automation Delivery Framework | next8n | https://next8n.com

This document is confidential and intended for authorized use only.