

# Test Plan

# Test Plan

Project: {{PROJECT\_NAME}} Version: {{VERSION}} Date: {{DATE}}  
Author: {{AUTHOR}} Status: Draft | In Review | Approved Reviewers:  
{{REVIEWERS}}

## Document History

Version	Date	Author	Changes
0.1	{{DATE}}	{{AUTHOR}}	Initial draft

## 1. Test Objectives

This test plan covers testing for **{{RELEASE\_NAME}}** ({{VERSION}}) of **{{PROJECT\_NAME}}**.

### Primary objectives:

- Verify that **{{OBJECTIVE\_1}}**
- Verify that **{{OBJECTIVE\_2}}**
- Confirm no regression in **{{REGRESSION\_AREA}}**
- Validate performance under expected production load

**Out of scope for this plan:** See Section 3 (Scope).

## 2. Features Under Test

Feature / Story	Priority	Test Types	Owner
{{FEATURE_1}}	Critical	Unit, Integration, E2E	{{OWNER}}

Feature / Story	Priority	Test Types	Owner
{{FEATURE_2}}	High	Unit, Integration	{{OWNER}}
{{FEATURE_3}}	Medium	Unit	{{OWNER}}
Regression — {{AREA}}	High	E2E, Manual	{{OWNER}}

## 3. Scope

### In Scope

- {{IN\_SCOPE\_1}}
- {{IN\_SCOPE\_2}}
- Regression testing of {{REGRESSION\_MODULES}}
- Performance testing of {{PERF\_SCOPE}} endpoints
- Security testing of new authentication changes

### Out of Scope

Item	Justification
{{OUT_1}}	{{REASON_1}}
{{OUT_2}}	{{REASON_2}}
Third-party integrations ({{SERVICE}})	Tested in integration test suite; provider responsible for own reliability

## 4. Test Schedule & Milestones

Milestone	Date	Responsible
Test plan approved	{{DATE}}	QA Lead
Test environment ready	{{DATE}}	Platform team
Test data seeded	{{DATE}}	QA team
Unit + integration tests complete	{{DATE}}	Dev team
E2E test authoring complete	{{DATE}}	QA team
Regression testing complete	{{DATE}}	QA team
UAT start	{{DATE}}	QA + Product

Milestone	Date	Responsible
UAT sign-off	{{DATE}}	Product Owner
Performance testing complete	{{DATE}}	DevOps + QA
Go/no-go decision	{{DATE}}	Eng manager
Production release	{{DATE}}	Release manager

## 5. Resource Allocation

Resource	Role	Testing Activities	Availability
{{PERSON_1}}	QA Lead	E2E authoring, regression	100%
{{PERSON_2}}	Developer	Unit + integration tests	30% of sprint
{{PERSON_3}}	Developer	Unit + integration tests	30% of sprint
{{PERSON_4}}	DevOps	Performance, infrastructure	20%
{{PERSON_5}}	Product Owner	UAT review and sign-off	As needed

## 6. Entry Criteria

Testing may begin when:

- Feature development is code-complete (all tickets in "Ready for QA")
- Unit tests passing ( $\geq$  {{UNIT\_PASS\_RATE}}% pass rate)
- Integration tests passing
- Build artifact deployed to test environment
- Test environment is stable (health checks passing)
- Test data is seeded and verified
- Test cases for new features reviewed and approved
- Previous known blocking bugs resolved (see bug tracker)

## 7. Exit Criteria

Testing is complete when:

- All test cases executed
- $\geq$  `{{PASS_RATE}}`% of test cases pass
- All Critical and High defects resolved or accepted with justification
- Medium defects reviewed — plan in place for outstanding items
- Code coverage  $\geq$  `{{COVERAGE_GATE}}`%
- E2E tests passing on staging
- Performance tests meeting SLA targets
- UAT sign-off obtained from Product Owner
- Go/no-go checklist complete (see Section 14)
- Release notes updated with test summary

**Exceptional circumstances:** If exit criteria cannot be met, a documented risk acceptance from `{{ACCEPTANCE_AUTHORITY}}` is required.

## 8. Test Strategy Summary Per Type

Type	Approach	Tool	Owner	Gate
Unit	White-box, TDD where applicable	<code>{{UNIT_TOOL}}</code>	Developers	Blocks merge
Integration	Real dependencies via TestContainers	<code>{{INT_TOOL}}</code>	Developers	Blocks merge
E2E	Critical user journeys, automated	<code>{{E2E_TOOL}}</code>	QA	Blocks release
Regression	Automated suite + targeted manual	<code>{{E2E_TOOL}}</code> + manual	QA	Blocks release
Performance	Load test at <code>{{LOAD_PROFILE}}</code>	<code>{{PERF_TOOL}}</code>	DevOps	Blocks release
Security	SAST + SCA + manual review	<code>{{SAST_TOOL}}</code>	DevOps	Blocks merge
UAT	Business scenario validation	Manual	Product Owner	Blocks release
Accessibility	Automated + manual audit	<code>{{A11Y_TOOL}}</code>	Developer + QA	Warning

## 9. Test Environment Requirements

Environment	Purpose	URL	Access Needed
Dev	Unit/integration	<code>dev.{{DOMAIN}}</code>	All team members
Staging	E2E, regression, UAT	<code>staging.{{DOMAIN}}</code>	Team + PM + stakeholders
Performance	Load testing	Isolated (production-sized)	DevOps + QA

### Environment requirements:

- Staging must have production-equivalent configuration
- Test database seeded with `{{DATA_VOLUME}}` records
- Third-party integrations in sandbox/test mode
- Monitoring enabled (same as production)

## 10. Test Data Requirements

Data Category	Volume	Creation Method	Responsible
Test user accounts	<code>{{USER_COUNT}}</code>	<code>scripts/seed-users.sh</code>	QA team
<code>{{DATA_TYPE_1}}</code>	<code>{{VOLUME}}</code>	Factory / fixtures	QA team
<code>{{DATA_TYPE_2}}</code>	<code>{{VOLUME}}</code>	Anonymized from production	DevOps
Edge case data (empty states, max values)	Defined per test	Manual / fixtures	QA team

**Data cleanup:** All test data removed after test run via `scripts/cleanup.sh`

## 11. Risk-Based Test Prioritization

Risk Area	Likelihood	Impact	Priority	Mitigation
Payment processing failure	Medium	Critical	P1	Full regression + manual testing
Data migration errors	High	Critical	P1	Staged migration + rollback plan
Performance degradation	Medium	High	P2	Load test at 2x expected peak
Third-party API downtime	Low	Medium	P3	Stub in tests, circuit breaker in code
Authentication edge cases	Low	Critical	P1	Full auth test suite

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# 12. Dependencies & Assumptions

## Dependencies:

- Platform team provisions staging environment by {{DATE}}
- {{THIRD\_PARTY}} sandbox environment available
- Security team approves SAST configuration by {{DATE}}

## Assumptions:

- Feature requirements will not change during the testing phase
  - All developers will respond to bugs within {{BUG\_RESPONSE\_SLA}} hours
  - UAT participants are available per the schedule in Section 4
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# 13. Defect Management Process

## Bug tracker: {{BUG\_TRACKER}} Severity levels:

Severity	Definition	Resolution SLA
Critical	System unusable, data loss, security issue	Fix before release
High	Major feature broken, no workaround	Fix before release
Medium	Feature degraded, workaround exists	Fix in next sprint
Low	Minor issue, cosmetic	Backlog

**Bug lifecycle:** Open → Assigned → In Progress → Fixed → Verified → Closed **Triage cadence:** Daily during active testing phase

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# 14. Test Deliverables

Deliverable	Format	Due Date	Owner
Test plan (this document)	Markdown	{{DATE}}	QA Lead
Test cases	{{BUG_TRACKER}} / Markdown	{{DATE}}	QA team
Test execution results	Automated CI reports + summary	{{DATE}}	QA team

Deliverable	Format	Due Date	Owner
Defect report	{{BUG_TRACKER}}	Ongoing	QA team
Performance test report	Markdown + charts	{{DATE}}	DevOps
UAT sign-off	Signed <a href="#">uat-signoff.md</a>	{{DATE}}	Product Owner
Test summary report	Markdown	{{DATE}}	QA Lead

## Related Documents

- [Test Strategy](#)
- [Test Case Template](#)
- [E2E Test Plan](#)
- [Performance Test Plan](#)
- [Definition of Done](#)
- [UAT Sign-off](#)

## Approval

Role	Name	Date	Signature
Author			
Reviewer			
Approver			

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