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Prompting for QA Teams

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Agenda

- Role of Learning Examples
- Hands-On Prompt Building (QA Focus)
- QA Case Studies
- Panel Enablement for QA

Role of Learning Examples

- What are Few-Shot Prompts?
- How to craft high-quality examples.
- Case studies from real QA automation contexts.

Hands-On Prompt Building (QA Focus)

- Using prompts for test case generation.
- Converting acceptance criteria → test scenarios.
- Regression suite analysis using prompts.

QA Case Studies

- Case Study (QA 1): Writing test cases from requirements (User Login).
- Case Study (QA 2): Automating bug report summaries into reproducible steps.

4. Panel Enablement for QA

- Building a Prompt Library for QA teams.
- Peer review guidelines & standard prompt templates.

Prompting for QA Teams

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Role of Learning Examples

- What are Few-Shot Prompts?
- How to craft high-quality examples.
- Case studies from real QA automation contexts.

What are Few-Shot Prompts?

Few-shot prompting is when you provide the AI with a few **examples** of how you want the output structured before asking it to generate new results.

Why it matters for QA

- Ensures consistency in test case generation.
- Teaches the AI the format and depth expected.
- Reduces ambiguity when creating structured artifacts (test cases, bug reports, automation scripts).

Prompt (Few-Shot)

Example Test Case 1:

ID: TC001

Feature: Login

Description: Verify login with valid username and password

Steps: 1) Open login page 2) Enter valid credentials 3) Click login

Expected Result: User is redirected to dashboard

Prompt (Few-Shot)

Example Test Case 2:

ID: TC002

Feature: Login

Description: Verify login with invalid password

Steps: 1) Open login page 2) Enter valid username and wrong password 3) Click login

Expected Result: Error message displayed

Prompt (Few-Shot)

Now generate 3 more test cases for the "Forgot Password" functionality in the same format.

2. How to Craft High-Quality Examples

- To make Few-Shot prompting effective, QA teams must ensure examples are:
- **Domain-Specific:** Match the system under test (e.g., BFSI app vs. e-commerce platform).
- Clear and Concise: No vague instructions; step-by-step clarity.

2. How to Craft High-Quality Examples

- **Consistent in Format:** Same fields (ID, Feature, Description, Steps, Expected Result).
- Error Coverage: Include positive, negative, and boundary scenarios.
- **Scalable:** Examples should serve as templates for dozens of additional cases.

2. How to Craft High-Quality Examples

 Tip: Use 2-3 strong examples per feature → Al can then scale into 20+ test cases reliably.

3. Case Studies - QA Automation Contexts

Case Study 1: E-Commerce Checkout Testing

Case Study 2: Mobile Banking App - Login & Security

Case Study 3: API Testing for Insurance Platform

Case Study 1: E-Commerce Checkout Testing

- **Challenge:** QA team needed 100+ test cases for checkout flows (credit card, UPI, coupons).
- Few-Shot Prompt: Provided 3 examples (valid payment, invalid card, expired coupon).
- **Result:** Al generated 40 additional test cases covering boundary conditions (network failure, partial payments).
- Impact: Reduced manual design time from 2 days \rightarrow 2 hours.

Case Study 2: Mobile Banking App - Login & Security

- **Challenge:** Security testing needed structured negative scenarios (e.g., brute force, expired OTP).
- Few-Shot Prompt: Provided 2 structured examples with test IDs and acceptance criteria.
- **Result:** Al generated 20 negative test cases + suggestions for automation in Selenium + Appium.
- **Impact:** QA automation team integrated them directly into regression suites.

Case Study 3: API Testing for Insurance Platform

- **Challenge:** Testing claims submission API required hundreds of input-output validation cases.
- Few-Shot Prompt: Gave 3 sample API test cases with request payload, headers, expected response.
- **Result:** Al produced JSON-formatted test cases for 25 scenarios, ready for Postman collection.
- **Impact:** Boosted test coverage while reducing manual documentation effort.

Key Takeaways for QA Teams

- Few-Shot Prompting = Teaching by Example → reduces ambiguity and boosts consistency.
- Good examples = high-quality outputs (garbage in = garbage out).

Key Takeaways for QA Teams

- QA can leverage Few-Shot prompts for:
- Functional, Negative, Regression, and API testing.
- Generating automation scripts (Selenium, Playwright, PyTest).
- Creating bug reports in standardized templates.

Key Takeaways for QA Teams

Always pair **Al-generated cases with human review** to ensure coverage and compliance.

Hands-On Prompt Building (QA Focus)

- Using prompts for **test case generation**.
- Converting acceptance criteria → test scenarios.
- Regression suite analysis using prompts.

- Step 0 Set the role (once per session)
- System role:
- You are a QA Lead who practices risk-based testing and boundary analysis. Always label coverage type, severity, and priority. If information is missing, state assumptions explicitly.

Step 1 – Define the task and context

- Clarify feature, user type, platforms, rules, risks.
- Task: Create test cases for e-commerce checkout (card, UPI, coupons).
- Context: Guest checkout allowed; taxes vary by state; free shipping over ₹999; coupons cannot stack.
- Risks: Payment failure, double charge, tax miscalculation.

- Step 2 Specify the format (enforce structure)
- Output format (table):
- ID | Title | Type (Pos/Neg/Boundary/Integration) | Preconditions |
 Steps | Expected Result | Severity | Priority | Tags
- Constraints: 12 cases total: 6 positive, 4 negative, 2 boundary. Use concise, atomic steps. No duplicated coverage.

- Step 3 Add a few-shot example (teaches style)
- Example cases (style guide):
- ID: TC-LOGIN-001 | Title: Valid login | Type: Pos | Preconditions: Registered user
- Steps: 1) Open login 2) Enter valid email+pwd 3) Submit
- Expected: Redirect to dashboard | Sev: M | Pri: P1 | Tags: auth
- ID: TC-LOGIN-002 | Title: Invalid password | Type: Neg | Preconditions: Registered user
- Steps: 1) Open login 2) Enter valid email + wrong pwd 3) Submit
- Expected: Error shown; account not locked | Sev: M | Pri: P2 | Tags: auth,validation

- Step 4 Ask for boundary/value ideas before final cases
- Before writing cases, list equivalence classes and boundary values for:
- - order_amount, tax_rate, coupon_discount, shipping_threshold.
- Then proceed to generate the 12 cases.

Step 5 – Add a self-check

- Quality check: Verify coverage against risks. Flag gaps or duplicates. Append a 3-row summary:
- - Gaps found
- - Duplicates removed
- - Assumptions made

One-shot master prompt (copy/paste)

- You are a QA Lead.
- Task: Generate a 12-case suite for e-commerce checkout (cards, UPI, coupons).
- Context: Guest checkout allowed; taxes vary by state; free shipping > ₹999; coupons don't stack; risks: payment failure, double charge, tax miscalc.
- First list equivalence classes and boundary values for key fields; then produce cases.

One-shot master prompt (copy/paste)

- Output table:
- ID | Title | Type | Preconditions | Steps | Expected | Severity |
 Priority | Tags
- Mix: 6 positive, 4 negative, 2 boundary. Be concise and avoid duplicates.
- Finish with a "Quality check" section (gaps, duplicates, assumptions).

2) Converting acceptance criteria → test scenarios

Step 1 – Paste ACs in source format (e.g., Gherkin)

- Feature: Password Reset via OTP
- AC1: Given registered user, when requests reset, then OTP sent to verified mobile within 60s.
- AC2: OTP expires in 5 minutes; 3 attempts allowed.
- AC3: On success, force new password meeting policy (min 8, 1 digit, 1 special).
- AC4: Lock account for 15 minutes after 5 failed OTP attempts.

Step 2 – Ask for scenario enumeration first

- Enumerate test scenarios from these ACs:
- Classify as Positive / Negative / Boundary / Security / Performance
- Map each scenario to AC IDs
- Output as: Scenario ID | Scenario Title | Category | Mapped ACs

Step 3 – Expand scenarios \rightarrow test cases with data

For each scenario, generate 1-2 concrete test cases with:

ID | Title | Preconditions | Steps | Test Data Matrix | Expected | Severity | Priority | Trace (ACs)

Rules:

- Include boundary values (e.g., OTP at 4:59 vs 5:01)
- Include negative paths (expired OTP, wrong OTP thrice)
- Include security checks (rate limiting, lockout)
- Keep steps atomic and automatable

Step 4 – Produce a requirements traceability view

- Create a mini-RTM:
- AC ID | Scenarios covering it | Test Case IDs | Coverage status (Full/Partial/Gap)
- List any gaps with a suggestion for new cases.

Step 5 – Optional automation starter

From these test cases, generate Playwright pseudo-code skeletons (TypeScript) for the top 3 critical paths, with TODOs for selectors and data.

One-shot conversion prompt (copy/paste)

You are a Senior QA.

Input: [paste ACs]

- 1) Enumerate scenarios with categories and AC mapping.
- 2) Expand to test cases with Test Data Matrix and trace to ACs.
- 3) Generate RTM with coverage status and list gaps.
- 4) Provide Playwright pseudo-code for the top 3 critical positive flows.

Keep all outputs concise, tabular where possible, and ready for automation.

3) Regression suite analysis using prompts

Inputs you provide

- Current regression inventory (CSV/table): TC ID, Title, Component, Priority, LastRun, Status, DefectLinked, Flaky(Y/N), Duration(s), Tags
- Release scope notes: changed modules, new features, fixed defects
- Non-functional constraints: time budget, environments, parallelism

Step 1 – Deduplicate and deflake

- You are a QA Lead.
- Task: Analyze the regression inventory (pasted table).
- 1) Identify duplicates/near-duplicates (same intent, different wording).
- 2) Flag flaky tests (history shows intermittent fail) for quarantine.
- 3) Suggest merges or removals. Output a table:
- TC ID | Issue (Duplicate/Flaky/Obsolete) | Keep/Remove/MergeInto | Rationale

Step 2 – Risk-based prioritization and suite slicing

- Create a prioritized plan under a 90-minute budget:
- - Bucket tests into Smoke (P0), Sanity (P1), Full Regression (P2+)
- Optimize for high-risk components, historically buggy areas, and change impact
- - Show estimated runtime and parallelism assumptions

Step 2 – Risk-based prioritization and suite slicing

- Output tables:
- A) Prioritized List: Rank | TC ID | Component | Reason | Est.
 Duration
- B) Suite Split: Bucket | Count | Total Est. Time | Entry/Exit Criteria

Step 3 – Coverage and gap analysis

- Map tests to features/requirements and defects:
- - Heatmap: Component x Coverage (%), mark <80% as risk
- - List critical gaps with suggested new cases
- - Identify obsolete tests (no longer relevant to current flows)
- Output concise tables plus a brief risk narrative.

Step 4 – Actionable plan

- Produce the final action plan:
- 1) Quarantine list (flaky) with stabilization steps
- 2) Deletions/merges
- 3) New cases to add (with brief titles)
- 4) Planned buckets for this release (Smoke/Sanity/Regression) with time budget

One-shot analysis prompt (copy/paste)

- You are a QA Lead optimizing a regression suite within a 90-minute budget.
- Input:
- Regression inventory table with fields (TC ID, Title, Component, Priority, LastRun, Status, DefectLinked, Flaky, Duration, Tags)
- - Release scope notes: [paste]

One-shot analysis prompt (copy/paste)

Tasks:

- 1) Deduplicate and flag flaky/obsolete; propose keep/remove/merge with rationale.
- 2) Prioritize using risk (defect history, change impact, criticality); slice into Smoke/Sanity/Regression; show time math.
- 3) Coverage analysis: component heatmap, gaps (<80%), and suggested additions.
- 4) Final action plan: quarantine, merges/deletions, additions, bucket plan with estimated total runtime.

One-shot analysis prompt (copy/paste)

• Outputs: concise tables + a short risk narrative; assumptions explicit.

Quick checklists (use after each run)

- Structure: Are all fields filled (IDs, steps, expected, severity/priority)?
- Coverage: Positive, negative, boundary, integration present?
- Traceability: Do cases map to ACs/requirements?
- Duplicates: Any overlapping intent?
- Data: Boundary values and equivalence classes explicit?
- Actionability: Ready for automation (atomic steps, stable oracles)?

Case Study (QA-1)

Writing Test Cases from Requirements – User Login

Step 0 – Scope & Assumptions (customize to your product)

- **Assumptions** (replace with your PRD):
- A1: Users can log in with email or mobile number plus password.
- A2: Password policy: **8-64 chars**, at least **1 digit** and **1 special**.
- A3: Account locks for 15 minutes after 5 failed attempts.
- A4: Optional "Remember me" (30 days), session timeout (30 min idle).
- A5: Rate limit: max 10 attempts / minute / IP.
- A6: OTP / MFA is not required for basic login (covered separately).

Step 1 – Extract Requirements (label them R1...R12)

- **R1**: Accept email **or** mobile as username; trim spaces; case-insensitive for email.
- R2: Validate password policy and reject malformed inputs.
- **R3**: Successful login redirects to dashboard and creates an authenticated session.
- **R4**: Incorrect credentials show non-revealing error message; do not lock after 1st failure.
- R5: Lockout after 5 consecutive failed attempts for 15 minutes.

Step 1 – Extract Requirements (label them R1...R12)

- **R6**: "Remember me" persists session for 30 days on trusted device.
- **R7**: Session times out after 30 minutes of inactivity.
- **R8**: Rate limit: >10 attempts/min/IP \rightarrow 429 with generic error.
- **R9**: Security: resist SQLi/XSS; no sensitive data in client-side storage.
- **R10**: Audit/log login attempts (success/failure, reason, timestamp, IP).

Step 1 – Extract Requirements (label them R1...R12)

- **R11**: Accessibility: Login form passes basic WCAG checks (labels, focus, error text).
- **R12**: Privacy: Error messages must not reveal which field was wrong or if account exists.

Step 2 – Acceptance Criteria (sample, Gherkin)

Feature: User Login

AC1 (R1, R3): Given a registered user with valid email and password When they submit the login form

Then they are authenticated and land on the dashboard.

AC2 (R4, R12): Given any invalid credential

When they submit

Then show a generic error "Invalid username or password."

Step 2 – Acceptance Criteria (sample, Gherkin)

AC3 (R5): After 5 consecutive failed attempts within 15 minutes Next attempt returns "Account locked. Try again later." and denies login for 15 minutes.

AC4 (R8): If the system receives >10 login attempts from the same IP in a minute

Then return HTTP 429 and show "Please wait and try again."

Step 2 – Acceptance Criteria (sample, Gherkin)

AC5 (R6): If user checks "Remember me" and authenticates successfully

Then their session persists for 30 days on that device.

AC6 (R11): All inputs have labels/ARIA, focus order is logical, and errors are announced.

Step 3 – Test Design: Equivalence Classes & Boundaries

- **Email**: valid formats; invalid (missing @, multiple @, spaces, uppercase → normalize).
- Mobile: valid 10-15 digits; invalid (alpha chars, <10, >15).
- Password length: 7, 8, middle (12), 64, 65.
- Password content: missing digit; missing special; all valid.
- Attempts: counts at 4, 5, 6 (boundary around lockout).
- Rate limit: attempts at 10, 11 in a minute.

Step 4 – Enumerate Test Scenarios (map to R#)

- S1 Valid email + password (R1,R3)
- S2 Valid mobile + password (R1,R3)
- S3 Email with leading/trailing spaces trims (R1)
- S4 Invalid email format blocked (R1)
- S5 Invalid mobile format blocked (R1)

Step 4 – Enumerate Test Scenarios (map to R#)

- S6 Wrong password shows generic error (R4,R12)
- S7 Account lock at 5th failure; 6th still locked (R5)
- S8 Lock auto-clears after 15 min (R5)
- S9 Remember-me persists session across browser restart (R6)
- S10 Session idle timeout at 30 min (R7)

Step 4 – Enumerate Test Scenarios (map to R#)

- S11 Rate-limit returns 429 on 11th try (R8)
- S12 SQLi payload in username is neutralized (R9)
- S13 XSS in error message is escaped (R9)
- S14 No PII/session token in localStorage (R9)
- S15 Audit logs written correctly (R10)
- S16 Accessibility checks: labels, focus, error announcement (R11)

Step 5 – Test Cases (representative set)

Format: ID | Title | Type | Preconditions | Steps | Expected | Sev | Pri | Trace

Step 5 – Test Cases (representative set)

- LOGIN-TC-001 | Valid login via email | Positive | Registered user exists | 1) Open login 2) Enter valid email 3) Enter valid pwd 4) Submit | Authenticated; dashboard; secure session cookie set | H | P0 | R1,R3
- LOGIN-TC-002 | Valid login via mobile | Positive | Registered mobile user | Steps as above with mobile | Success as above | H | P0 | R1,R3

Step 5 – Test Cases (representative set)

- LOGIN-TC-003 | Email trims whitespace | Boundary | User exists | Enter " user@example.com " + valid pwd | Trims; login succeeds | M | P1 | R1
- LOGIN-TC-004 | Invalid email format | Negative | | Enter user@@example + any pwd | Client/server validation error; no auth | M | P1 | R1

Step 6 – API Test Cases (if exposing /auth/login)

Fields: ID | Method/Endpoint | Payload | Expected HTTP | Body/Headers | Notes | Trace

Step 6 – API Test Cases (if exposing /auth/login)

- API-TC-01 | POST /auth/login | valid email+pwd | 200 | Set-Cookie: httpOnly; Secure; SameSite=Lax | CSRF token respected | R3,R9
- API-TC-02 | invalid creds | 401 | Generic error; no detail | No user existence leak | R4,R12

Step 7 – RTM (Requirements Traceability Matrix)

Req	Covered by Test Cases	Coverage
R1	TC-001,002,003,004,005	Full
R2	(Add password policy cases)	Gap → add TC-018TC-022
R3	TC-001,002	Full
R4	TC-006	Full

Step 7 – RTM (Requirements Traceability Matrix)

Action: Add missing password-policy edge tests to close R2 gap.

Step 8 – Regression Suite Slicing (example)

- Smoke (PO, fast): TC-001,002,006,007/008,012,013
- Sanity (P1): TC-003,004,005,009,010,011,014,015
- Full Regression (P2+): TC-016,017 + password policy edges

Step 9 – Automation Readiness Checklist

- Steps are **atomic** and selectors stable.
- Expected results observable (URL, cookie flags, DOM text, server logs).
- Data setup/teardown defined (seed user, lockout reset).
- Parallel-safe and idempotent where possible.

Step 10 – (Optional) Starter automation skeleton (Playwright TS, pseudo)

```
test('LOGIN-TC-001 Valid login via email', async ({ page }) => {
    await page.goto('/login');
    await page.getByLabel('Email').fill('user@example.com');
    await page.getByLabel('Password').fill(process.env.PASSWORD!);
    await page.getByRole('button', { name: 'Sign in' }).click();
    await expect(page).toHaveURL(/dashboard/);
    // Assert httpOnly cookie via server helper or API; check no localStorage tokens
});
```

What to do next

- Replace assumptions with your **real PRD values**.
- Add the missing password-policy edge cases to close R2.
- Plug these tables into your QA repo (Markdown/CSV) and generate Playwright/Postman collections.

Case Study (QA 2): Automating bug report summaries into reproducible steps.

1. Background

- A large e-commerce company's QA team found that 30-40% of submitted bug reports were rejected by developers because:
- Reproduction steps were incomplete or vague ("doesn't work sometimes").
- Logs/screenshots were missing.
- Reports mixed observations with assumptions, making debugging harder.

Objective:

Use **Prompt Engineering with LLMs** to transform raw tester notes or chat logs into **structured**, **reproducible bug reports** that developers can act on quickly.

2. Challenges

- **Inconsistent Reporting Style** Different testers documented issues in their own format.
- **Missing Information** Steps, expected vs. actual results often incomplete.
- **Time Pressure** Testers had little time during regression cycles to write detailed reports.
- Developer Frustration Wasted effort reproducing vague bugs.

3. Solution: Role-Based Prompting

- Example Prompt (QA role)
- You are a QA Engineer.
- Task: Convert the following raw notes into a structured, reproducible bug report.

3. Solution: Role-Based Prompting

Constraints:

- 1. Output format:
 - Bug ID
 - Title
 - Environment
 - Preconditions
 - Steps to Reproduce
 - Expected Result
 - Actual Result
 - Severity
 - Attachments (logs/screenshots reference)

3. Solution: Role-Based Prompting

- 2. Ensure steps are atomic and numbered.
- 3. Remove assumptions; keep observations factual.
- 4. If logs/screenshots are missing, insert "To be attached."

Input (Tester's Raw Notes)

"Checkout crashed again when I tried coupon code. It worked yesterday but today fails. Sometimes on Chrome, not sure if it's cache. Error popup appears but I can't read all of it."

Al-Generated Output

- **Bug ID:** BUG-CHK-045
- Title: Checkout page crashes when applying coupon code
- Environment: Chrome v116, Windows 11, Build #2025.02
- **Preconditions:** User logged in, valid cart with items worth > ₹1000

4. Implementation in Workflow

- Integration with Bug Tracker LLM connected to Jira/YouTrack via API to auto-format reports.
- Few-Shot Prompting Provided 2-3 good bug examples as "templates" so Al learned expected style.
- **Regression Cycle Usage** Testers pasted rough notes \rightarrow Al produced clean reports in <1 min.

5. Results

- **Time Saved:** Bug report writing time reduced by ~70%.
- Consistency: All bug reports had the same structured format.
- **Developer Efficiency:** Reproduction success rate improved, reducing ping-pong between QA and Dev.
- **Scalability:** QA teams could log 3× more actionable bugs per sprint.

Key Learnings

- Role Prompting ("You are a QA Engineer...") ensured outputs aligned with QA best practices.
- **Constraints in prompts** (atomic steps, no assumptions, attachments placeholder) created high-quality, reproducible reports.
- Few-Shot Examples made the output consistent across testers.
- Human oversight remained critical for severity assignment and attaching actual logs/screenshots.

4. Panel Enablement for QA

Building a Prompt Library

- 1. Why a Prompt Library for QA?
- 2. Components of a QA Prompt Library

3. Governance & Best Practices

4. Case Example - Prompt Library in Action

5. Panel Enablement Steps for QA Managers

1. Why a Prompt Library for QA?

- **Standardization** → Ensures all QA members generate test cases, bug reports, and automation scripts in a consistent format.
- Reusability → Prompts become templates that can be adapted across features and projects.
- Efficiency → Reduces repetitive effort in writing test cases, acceptance criteria conversions, and reports.
- Onboarding → New QA hires learn faster by following pre-built prompt patterns.

9/16/25

Peer review guidelines & standard prompt templates.

- **Peer Review Guidelines** (how QA engineers should evaluate each other's Al-assisted outputs).
- **Standard Prompt Templates** (reusable, high-quality prompts for QA activities).

1. Peer Review Guidelines for QA Prompting

Peer review ensures Al-generated artifacts (test cases, bug reports, automation scripts) are **accurate, consistent, and actionable** before they enter the QA workflow.

A. Review Objectives

- Correctness: Are requirements fully and correctly translated?
- **Completeness:** Are positive, negative, boundary, and integration cases covered?
- **Clarity:** Are steps atomic, unambiguous, and ready for execution/automation?
- Consistency: Do outputs follow agreed templates and terminology?

A. Review Objectives

- **Traceability:** Do test cases map back to requirements/acceptance criteria?
- Risk Awareness: Are high-risk and edge cases included?
- Ethics & Security: Are reports unbiased, factual, and free from sensitive data leaks?

B. Review Checklist (QA Peer Review Form)

- Format Compliance: Does the output follow the library template?
- **Requirement Mapping:** Does each case/bug map to at least one requirement/AC?
- **Coverage:** Are boundary, negative, and performance/security aspects included?
- Readability: Are titles concise? Are steps clearly numbered?
- Expected Results: Are they measurable and unambiguous?

B. Review Checklist (QA Peer Review Form)

- Severity/Priority: Correctly assigned?
- **Assumptions:** Explicitly stated where requirements were unclear?
- Automation Readiness: Steps atomic? Stable selectors/data defined?
- Gaps: Reviewer must list missing cases or incorrect assumptions.
- Final Verdict: Approve / Approve with Comments / Reject.

C. Peer Review Best Practices

- Use a **two-pass system**:
 - Pass 1 → Format & structure.
 - Pass 2 → Content accuracy & coverage.
- Encourage constructive comments, not just "approve/reject."
- Keep reviews time-boxed (15-20 mins) per deliverable.
- Track **metrics** (e.g., % of Al outputs requiring corrections) to improve prompt quality.

2. Standard Prompt Templates for QA Teams

A. Test Case Generation

- You are a QA Engineer.
- Task: Generate [N] test cases for [Feature].
- Context: [Domain/system behavior].

A. Test Case Generation

- Constraints:
- Output table → ID | Title | Type
 (Positive/Negative/Boundary/Security) | Preconditions | Steps |
 Expected Result | Severity | Priority | Trace (Requirement ID).
- - Cover at least: 3 positive, 2 negative, 1 boundary.
- - Steps must be atomic and automatable.
- - Explicitly state assumptions if requirements are incomplete.

B. Bug Report Summarization

- You are a QA Engineer.
- Task: Convert these raw tester notes into a structured bug report.
- Output sections: Bug ID | Title | Environment | Preconditions | Steps to Reproduce | Expected Result | Actual Result |
 Severity | Attachments.

B. Bug Report Summarization

- Constraints:
- - Steps numbered and atomic.
- - Observations only (no assumptions).
- - Add placeholders: "To be attached" for missing logs/screenshots.

C. Acceptance Criteria → Test Scenarios

You are a QA Analyst.

Input: [Paste acceptance criteria].

Task:

- 1) Enumerate scenarios mapped to ACs.
- 2) Expand into test cases using format: ID | Scenario Title | Preconditions | Steps | Expected | Trace (AC ID).
- 3) Produce a mini RTM (AC \rightarrow Test Case IDs \rightarrow Coverage status).

Constraints: Include positive, negative, and boundary scenarios.

D. Regression Suite Optimization

You are a QA Lead.

Task: Optimize this regression suite.

Input: [Paste regression suite inventory table].

Steps:

- 1) Identify duplicates/flaky/obsolete tests.
- 2) Prioritize based on risk, defect history, and feature criticality.
- 3) Slice into Smoke, Sanity, Full Regression packs with estimated runtime.
- 4) Highlight coverage gaps and suggest new cases.

Output: Concise tables + risk summary.

E. Automation Script Starter

You are a QA Automation Engineer.

Task: Generate starter Playwright/Selenium/PyTest script for these test cases.

Constraints:

- Use TODO placeholders for selectors and test data.
- Each step corresponds to one atomic action.
- Include assertions for Expected Results.
- Output code + short explanation of logic.

Key Takeaway

- **Peer review** makes sure Al-generated QA artifacts are trustworthy before adoption.
- **Prompt templates** give QA engineers consistent starting points, reducing prompt-writing variability.
- Together, they form a **QA Prompting Framework**: *Prompt*
 - \rightarrow Al Output \rightarrow Peer Review \rightarrow Production Use.

Let's Connect



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