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QA Reports

1. Executive Summary

- Total APIs covered: X of Y APIs tested.

- Automation coverage: % of L1, L2, and L3 automated tests.

- Key issues and their status: Defects resolved; critical defects outstanding.

- Recent milestones: Successful patches/releases, major feature validations.

- **GenAI initiatives**

- Any other initiatives

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2. API Test Cases Report

- **Metrics**:

  - Total test cases: Created, executed, passed, and blocked.

  - Test case distribution by API type (GET, POST, PUT, DELETE).

  - Success rate and failure trends over time.

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3. Automation Coverage Report

- **Metrics**:

  - Automation coverage percentages by type:

    - **L1**: Unit tests (per API).

    - **L2**: Integration tests (API-to-API workflows).

    - **L3**: End-to-End (full business workflows).

  - Number of automated test cases vs. manual test cases.

  - Time savings achieved through automation (e.g., reduced test execution duration).

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4. Code Coverage Report

- **Metrics**:

  - Code coverage percentages: Overall and per critical module.

  - Identify gaps in code coverage by feature area.

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5. Defects/Bugs Report

- **Metrics**:

- o Total defects: Raised, resolved, outstanding.

- o Defect priority distribution: Critical, High, Medium, Low.

- o Defect categories: Functional, Performance, Security, Integration.

- o Average defect resolution time and trends.

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6. Key Achievements

- o 100% test coverage achieved for critical APIs.

- o Successful regression test execution for recent releases.

- o Reduced defect leakage in production by X%.

- o Implementation of new testing frameworks/tools for efficiency.

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7. Risks and Mitigation Plans

- o Areas with low test or code coverage.

- o APIs frequently failing tests or showing instability.

- o Action plans: Allocating resources, enhancing test coverage, optimizing execution.

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8. Next Steps

- o Expand automation to cover X% of remaining APIs.

- o Address gaps in L2/L3 test coverage.

- o Focus on performance and security testing.

- o Implement defect prevention strategies for recurring issues.