

Automated Testing Pipeline Document Template

1. Overview

Provide a brief summary of the automated testing pipeline, its purpose, and goals.

2. Pipeline Stages

- Code Checkout:** Describe repository and branch details.
- Dependency Installation:** List tools, libraries, and installation instructions.
- Static Code Analysis:** Tools/configuration for linting and code quality checks.
- Unit Testing:** Framework, test coverage requirements, and example commands.
- Integration Testing:** Scope, setup/teardown procedures, and frameworks.
- End-to-End Testing:** Outline environments, test data, tools, and schedules.
- Reporting & Notifications:** Describe test reporting methods and alerting channels.

3. Pipeline Flow Diagram

(Insert or reference the pipeline workflow diagram here)

4. Configuration

- Environment Variables:** List and describe required environment variables.
- Secrets Management:** Instructions for storing and accessing secrets.

5. Example Pipeline Configuration

```
# Sample YAML (e.g., GitHub Actions, GitLab CI)
stages:
  - checkout
  - install
  - lint
  - unit_test
  - integration_test
  - e2e_test
  - report
```

6. Test Coverage and Quality Metrics

- Coverage thresholds
- Accepted error/warning levels
- Key performance indicators

7. Troubleshooting

- Common failure scenarios
- Links to CI job logs
- Contact for support

8. References

- Documentation links

- Related repositories