# **Sample Test Strategy Document for MintQA.com**

## **1. Test Strategy for MintQA.com**

### **1.1 Purpose**

Define the high-level testing approach and standards for MintQA.com to ensure consistency across projects and align with organizational quality goals.

### **1.2 Testing Approach**

* Combination of **manual** and **automated** testing, with increasing emphasis on automation for regression and unit tests.
* Use of **AI-assisted testing tools** like GenAI for test case generation and defect prediction where feasible.
* Focus on **API**, **Mobile**, and **UI testing** as core pillars.

### **1.3 Testing Levels**

* **Unit Testing**: Developers responsible; automated tests run on every code commit.
* **Integration Testing**: API endpoints and system components integration validated.
* **System Testing**: Complete end-to-end validation on full product builds.
* **User Acceptance Testing (UAT)**: Beta and alpha cycles with real users.
* **Regression Testing**: Automated suites run before every release.
* **Performance Testing**: Load and stress tests during major releases.
* **Accessibility Testing**: Mandatory WCAG 2.1 and ADA compliance audits.

### **1.4 Testing Types and Methods**

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| **Type** | **Description** | **Tools/Frameworks** |
| Functional Testing | Validate all feature functionality | Selenium, Postman |
| Non-functional Testing | Performance, security, usability | JMeter, OWASP ZAP |
| Accessibility Testing | Compliance with accessibility standards | Axe, WAVE |
| White-box Testing | Code coverage and path validation | SonarQube, static analysis |
| AI-assisted Testing | AI tools for test optimization and defect detection | GenAI (optional) |

### **1.5 Tools and Technologies**

* Test case management: **TestRail**
* Defect management: **Jira**
* Automation tools: Selenium, Appium, Postman
* AI tools: GenAI for test creation and review (optional)
* Accessibility testing: Axe, WAVE

### **1.6 Roles & Responsibilities**

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| **Role** | **Responsibilities** |
| QA Manager | Define test strategy, ensure adherence |
| Test Leads | Implement strategy in test plans |
| Test Engineers | Execute manual and automated tests |
| Developers | Unit tests, fix defects |
| Accessibility Experts | Perform accessibility compliance testing |

### **1.7 Metrics and Reporting**

* Test coverage percentage
* Defect density and resolution time
* Regression test success rates
* Accessibility compliance scores
* Performance benchmarks

### **1.8 Continuous Improvement**

* Regular reviews and updates to strategy based on feedback.
* Adoption of new AI tools as they mature.
* Training sessions on accessibility and compliance.