

Test Strategy

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1 Test Levels

1. **Unit Testing**
 - Component level
 - Function level
 - Class level
2. **Integration Testing**
 - Component integration
 - System integration
 - API integration
3. **System Testing**
 - End-to-end scenarios
 - Business workflows
 - System requirements
4. **Performance Testing**
 - Load testing
 - Stress testing
 - Scalability testing
 - Reliability testing
5. **Security Testing**
 - Vulnerability assessment
 - Penetration testing
 - Security compliance

2 Test Environment Strategy

Environ- ment	Purpose	Data	Access
Deve- lopment	Unit/In- tegra- tion	Synthe- tic	Develo- pers
QA	System/ Perfor- mance	Anony- mized	QA Team
Staging	UAT/Se- curity	Produc- tion-like	All Teams
Produc- tion	Monito- ring	Live	Opera- tions

3 Test Automation

1. **Automation Frameworks**
 - Unit test frameworks
 - API test tools
 - UI test tools
 - Performance test tools
2. **Continuous Testing**
 - CI/CD integration
 - Automated test execution
 - Test result reporting
 - Test data management