

# User Acceptance Test Plan - Automated Review Engine v1.0.0

Version: 1.0.0

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Purpose: Validate production readiness for regulatory specialist deployment

## Test Objectives

### Primary Goals

- Verify Core Functionality: Ensure all essential features work as expected
- Validate User Workflow: Test complete document review process step-by-step
- Confirm Professional Quality: Validate UI/UX meets regulatory standards
- Test Error Handling: Verify robust error management and recovery
- Performance Validation: Confirm system meets performance requirements

### Success Criteria

- ■ All basic functionality tests pass
- ■ Complete workflow executes without errors
- ■ Professional appearance and behavior
- ■ Appropriate error handling and user feedback
- ■ Acceptable performance for regulatory use

## Test Environment

### Setup Requirements

- System: Windows/macOS/Linux with Python 3.8+
- Browser: Modern web browser (Chrome, Firefox, Edge)
- Network: Local development environment
- Test Data: Sample regulatory documents (PDF/Word)

### Pre-Test Setup

1. Ensure application is running: `streamlit run app.py`
2. Access application at: `http://localhost:8501`
3. Prepare test documents: EU Declaration of Conformity samples
4. Clear browser cache for clean testing environment

## Test Plan Structure

### Phase 1: Basic Application Access (5 minutes)

Objective: Verify application loads and basic navigation works

### Phase 2: Core UI Components (10 minutes)

Objective: Test individual component functionality

### Phase 3: Document Upload & Validation (10 minutes)

Objective: Verify file handling and validation

### Phase 4: Complete Review Workflow (15 minutes)

Objective: Test end-to-end document review process

### Phase 5: Results & Analytics (10 minutes)

Objective: Verify results display and export functionality

### Phase 6: Error Handling & Edge Cases (10 minutes)

Objective: Test system resilience and error management

## Detailed Test Cases

### PHASE 1: Basic Application Access

#### Test 1.1: Application Startup

Objective: Verify application loads correctly

■ STEPS: 1. Run `streamlit run app.py` 2. Open browser to `http://localhost:8501` 3. Observe application loading ■  
EXPECTED RESULTS: - Application loads without errors - Main interface displays properly - Header shows "Automated Review Engine" - Navigation sidebar is visible - Status indicator shows "Ready" (green) ■ FAIL  
CRITERIA: - Application fails to load - Error messages on startup - Missing UI components - Broken layout or styling

#### Test 1.2: Basic Navigation

Objective: Verify sidebar navigation works

■ STEPS: 1. Click each navigation option in sidebar: - ■ Home Dashboard - ■ Upload Documents - ■ Review Dashboard - ■■ Configuration - ■ Results & Analysis - ■ Progress Monitor - ■ History - ■ Settings - ■■ About ■  
EXPECTED RESULTS: - Each page loads without errors - Page content changes appropriately - Navigation remains functional - No broken links or missing pages ■ FAIL CRITERIA: - Navigation buttons don't respond - Pages fail to load - Error messages during navigation - Missing or broken page content

## PHASE 2: Core UI Components

### Test 2.1: Home Dashboard

Objective: Verify dashboard displays system information

■ STEPS: 1. Navigate to Home Dashboard 2. Review displayed information 3. Check system status indicators ■ EXPECTED RESULTS: - Professional welcome interface - System status indicators visible - Quick stats display properly - Professional appearance suitable for regulatory use ■ FAIL CRITERIA: - Missing dashboard content - Broken status indicators - Unprofessional appearance - Layout issues or errors

### Test 2.2: Settings Page

Objective: Verify settings interface and performance monitoring

■ STEPS: 1. Navigate to Settings page 2. Click through each tab: - ■ General - ■ Document - ■ Security - ■ Performance - ■ Advanced 3. Review performance monitoring dashboard ■ EXPECTED RESULTS: - All tabs load and display properly - Settings options are functional - Performance dashboard shows metrics - Professional configuration interface ■ FAIL CRITERIA: - Tabs fail to load or display - Missing settings options - Performance monitoring not working - Configuration interface appears broken

## PHASE 3: Document Upload & Validation

### Test 3.1: File Upload Interface

Objective: Verify file upload functionality

■ STEPS: 1. Navigate to Upload Documents page 2. Use file uploader component 3. Test with different file types: - Valid PDF document - Valid Word document (.docx) - Invalid file type (e.g., .txt) ■ EXPECTED RESULTS: - File uploader displays properly - Valid files upload successfully - File information displays correctly - Invalid files show appropriate error messages - Upload queue updates properly ■ FAIL CRITERIA: - File uploader not functional - Valid files rejected incorrectly - Invalid files accepted - Missing file information - Upload errors or crashes

### Test 3.2: Document Validation

Objective: Verify document validation workflow

■ STEPS: 1. Upload a sample EU Declaration of Conformity PDF 2. Observe validation process 3. Review validation feedback 4. Test with malformed/invalid document ■ EXPECTED RESULTS: - Validation process initiates automatically - Progress indicators show validation status - Validation results display clearly - Invalid documents trigger appropriate warnings - Professional error messages for issues ■ FAIL CRITERIA: - Validation process fails to start - No progress indication - Validation results unclear or missing - Poor error handling for invalid files - System crashes during validation

## PHASE 4: Complete Review Workflow

### Test 4.1: Review Configuration

Objective: Verify review configuration interface

■ STEPS: 1. Navigate to Configuration page 2. Select EU Declaration of Conformity template 3. Configure review parameters: - Validation strictness - Required fields - Output format preferences 4. Save configuration ■ EXPECTED RESULTS: - Configuration interface loads properly - Template selection works correctly - Parameters can be adjusted - Configuration saves successfully - Professional interface for regulatory use ■ FAIL CRITERIA: - Configuration interface broken - Template selection not working - Parameters cannot be modified - Configuration fails to save - Unprofessional appearance

### Test 4.2: Execute Review Process

Objective: Test complete document review execution

■ **STEPS:** 1. Navigate to Review Dashboard 2. Upload EU Declaration of Conformity document 3. Select appropriate template and configuration 4. Execute review process 5. Monitor progress in real-time ■ **EXPECTED RESULTS:** - Review process starts successfully - Real-time progress tracking works - Progress indicators update appropriately - Review completes without errors - Professional workflow execution ■ **FAIL CRITERIA:** - Review process fails to start - No progress tracking - Process hangs or crashes - Incomplete review execution - Poor user feedback during process

## PHASE 5: Results & Analytics

### Test 5.1: Results Display

Objective: Verify results visualization and analysis

■ **STEPS:** 1. Navigate to Results & Analysis page 2. Review completed analysis results 3. Explore different result views: - Summary overview - Detailed findings - Compliance scoring - Visual charts and graphs ■ **EXPECTED RESULTS:** - Results display clearly and professionally - Multiple view options work correctly - Charts and visualizations render properly - Professional presentation suitable for regulatory use - Comprehensive analysis information ■ **FAIL CRITERIA:** - Results fail to display - Missing or incomplete information - Charts fail to render - Unprofessional presentation - Analysis information unclear

### Test 5.2: Data Export Functionality

Objective: Verify export and reporting capabilities

■ **STEPS:** 1. From Results page, test export options: - PDF report export - JSON data export - CSV data export (if available) 2. Verify exported file quality 3. Test export with different result sets ■ **EXPECTED RESULTS:** - Export options are available and functional - Exported files generate successfully - File formats are correct and complete - Professional report formatting - Data integrity maintained in exports ■ **FAIL CRITERIA:** - Export functionality not working - Exported files corrupted or incomplete - Poor formatting in exported reports - Missing data in exports - Export process fails or errors

## PHASE 6: Error Handling & Edge Cases

### Test 6.1: Invalid Input Handling

Objective: Verify system handles invalid inputs gracefully

■ **STEPS:** 1. Test with invalid file types 2. Upload corrupted documents 3. Attempt process with missing configuration 4. Test with extremely large files 5. Try process without uploaded documents ■ **EXPECTED RESULTS:** - Clear error messages for invalid inputs - System remains stable during errors - User-friendly guidance for corrections - Graceful degradation for edge cases - No system crashes or unexpected behavior ■ **FAIL CRITERIA:** - Poor or missing error messages - System crashes on invalid input - No guidance for error correction - Unprofessional error handling - Unexpected system behavior

### Test 6.2: Performance Under Load

Objective: Verify performance with realistic usage

■ **STEPS:** 1. Upload multiple documents simultaneously 2. Execute multiple review processes 3. Navigate between pages during processing 4. Monitor performance metrics in Settings 5. Check system responsiveness ■ **EXPECTED RESULTS:** - System maintains responsiveness - Performance metrics show acceptable values - Multiple processes handle correctly - UI remains functional during load - Professional performance for regulatory use ■ **FAIL CRITERIA:** - System becomes unresponsive - Poor performance metrics - Processes fail under load - UI becomes unusable - Unacceptable delays for professional use

## Test Results Documentation

## Test Execution Checklist

PHASE 1: Basic Application Access ■ Test 1.1: Application Startup ■ Test 1.2: Basic Navigation PHASE 2: Core UI Components ■ Test 2.1: Home Dashboard ■ Test 2.2: Settings Page PHASE 3: Document Upload & Validation ■ Test 3.1: File Upload Interface ■ Test 3.2: Document Validation PHASE 4: Complete Review Workflow ■ Test 4.1: Review Configuration ■ Test 4.2: Execute Review Process PHASE 5: Results & Analytics ■ Test 5.1: Results Display ■ Test 5.2: Data Export Functionality PHASE 6: Error Handling & Edge Cases ■ Test 6.1: Invalid Input Handling ■ Test 6.2: Performance Under Load

## Results Summary Template

TEST EXECUTION SUMMARY Date: \_\_\_\_\_ Tester: \_\_\_\_\_ Environment: \_\_\_\_\_  
OVERALL RESULTS: ■ PASS - All tests successful, ready for deployment ■ PASS WITH MINOR ISSUES - Minor issues identified, deployment acceptable ■ FAIL - Major issues found, requires fixes before deployment  
DETAILED RESULTS: Phase 1 (Basic Access): \_\_\_\_\_ / \_\_\_\_\_ Phase 2 (UI Components): \_\_\_\_\_ / \_\_\_\_\_ Phase 3 (Upload/Validation): \_\_\_\_\_ / \_\_\_\_\_ Phase 4 (Review Workflow): \_\_\_\_\_ / \_\_\_\_\_ Phase 5 (Results/Analytics): \_\_\_\_\_ / \_\_\_\_\_ Phase 6 (Error Handling): \_\_\_\_\_ / \_\_\_\_\_  
CRITICAL ISSUES FOUND: 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_  
MINOR ISSUES FOUND: 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_  
RECOMMENDATIONS: 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_  
DEPLOYMENT READINESS: ■ Ready for regulatory specialist deployment ■ Ready with minor recommendations ■ Requires fixes before deployment

## Acceptance Criteria

### PASS Criteria (Ready for Deployment)

- All Phase 1-4 tests pass completely
- Phase 5-6 tests pass with only minor cosmetic issues
- Professional appearance suitable for regulatory environment
- Core workflow executes reliably
- Appropriate error handling and user feedback

### CONDITIONAL PASS (Minor Issues)

- Core functionality works correctly
- Minor UI/UX improvements needed
- Non-critical performance optimizations identified
- System stable and usable for regulatory work

### FAIL Criteria (Requires Fixes)

- Core functionality broken or unreliable
- Professional appearance not suitable for regulatory use
- Poor error handling or system instability
- Critical workflow steps fail
- Unacceptable performance for professional use

## Support Information

Test Plan Owner: Klaus Bang Andersen  
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Version: 1.0.0

Test Duration: Approximately 60 minutes

Recommended Tester Profile: Regulatory specialist or compliance professional

### ■ Ready for User Acceptance Testing!

This UAT plan validates the Automated Review Engine v1.0.0 for production deployment in regulatory environments. Successful completion confirms the system meets professional standards for regulatory specialist use.

## Document Information

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