# Test Plan Document

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## 1. Introduction

### 1.1 Scope

This document outlines the test plan for the Login Page module. The scope of testing includes validating various scenarios related to user authentication.

#### 1.1.1 In Scope

* Testing login functionality with different types of users (standard, locked out, problem, etc.).
* Validation of different login scenarios including valid and invalid credentials, session expiration, etc.
* Testing security vulnerabilities such as SQL injection, JavaScript injection, and HTML tags.
* Performance testing including load time and response time.
* Testing various user inputs such as long usernames, passwords with spaces, etc.

#### 1.1.2 Out of Scope

* Integration testing with other modules.
* Testing of functionalities beyond login such as user registration, profile management, etc.

### 1.2 Quality Objective

Ensure that the login functionality is robust, secure, and user-friendly, meeting the specified requirements.

### 1.3 Roles and Responsibilities

* Test Lead: Responsible for overall test strategy, planning, and coordination.
* Testers: Responsible for executing test cases and reporting defects.
* Developers: Responsible for fixing defects and ensuring the application meets the specified requirements.

## 2. Test Methodology

### 2.1 Overview

The testing will be performed manually to simulate real user interactions and to ensure comprehensive coverage of test scenarios.

### 2.2 Test Levels

* Unit Testing: Not applicable as this module involves end-to-end functionality.
* Integration Testing: Out of scope for this test plan.
* System Testing: Covered comprehensively in this test plan.

### 2.3 Bug Triage

Bugs will be categorized based on severity (Critical, High, Medium, Low) and priority (Immediate, High, Medium, Low) to prioritize the resolution.

### 2.4 Suspension Criteria and Resumption Requirements

Testing may be suspended if critical defects are encountered, and will resume after fixes are implemented and verified.

### 2.5 Test Completeness

Testing will be considered complete when all test cases have been executed, and no critical defects are outstanding.

## 3. Test Deliverables

* Test Plan Document.
* Test Cases Document.
* Test Report.
* Bug Report.
* RTM

## 4. Resource & Environment Needs

### 4.1 Testing Tools

No specific testing tools are required as testing will be performed manually using the application interface.

### 4.2 Test Environment

* Operating System: Compatible with the application requirements.
* Browser: Compatible with the application requirements.
* Internet Connection: Required for certain test scenarios (e.g., session expiration).
* Test Data: Provided in the Test Cases Document.