

Test Plan: Signup Form Automation Testing

1. Test Plan Overview

Project Name: Short Course Registration System

Test Name: Signup Form Automation Testing

Tested By: [Your Name]

Test Start Date: [Start Date]

Test End Date: [End Date]

Objective: Ensure that the signup form functions correctly, including input validation, dropdown selections, and form submission.

2. Scope

In Scope:

- UI Functionality Testing (Form inputs, Dropdowns, Buttons)
- Validation Testing (Required Fields, Input Format, Character Limits)
- Browser Compatibility Testing (Chrome, Firefox, Edge)
- Automation Testing using Selenium

Out of Scope:

- Backend API Testing
 - Database Testing
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3. Test Environment

- **Operating System:** Windows 10/11, macOS
- **Browsers:** Google Chrome (Latest), Mozilla Firefox (Latest), Microsoft Edge (Latest)
- **Automation Tool:** Selenium with Python & unittest
- **Test Data Source:** Hardcoded test data

4. Test Cases

4.1 Functional Test Cases

Test Case ID	Description	Steps	Expected Result
TC001	Verify that the First Name (Thai) field accepts valid input	1. Open the signup page2. Enter Thai name "กฤษณะ"3. Click outside the field	The input should be accepted without errors
TC002	Verify that the Last Name (Thai) field accepts valid input	1. Open the signup page2. Enter Thai surname "พิวงาม"3. Click outside the field	The input should be accepted without errors
TC003	Validate that email input only accepts correct format	1. Enter "testuser" in Email field2. Click outside	The system should show an error
TC004	Validate that password field requires at least 8 characters	1. Enter "12345" in Password field2. Click outside	The system should show an error
TC005	Verify the birthdate dropdown selection	1. Select '30' for Birthdate2. Select 'กันยายน' for Month3. Select '2547' for Year	Selected values should be displayed correctly
TC006	Verify that the Accept Terms checkbox is clickable	1. Scroll down to the checkbox2. Click on it	The checkbox should be selected
TC007	Ensure the form submission works correctly	1. Fill in all required fields2. Click 'Submit'	The system should process the registration

5. Test Execution Strategy

- Run test cases manually first to confirm expected behavior.
 - Execute automated test scripts using Selenium WebDriver.
 - Use unittest framework for test execution and reporting.
 - Perform testing on multiple browsers.
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6. Defect Management

- **Defect Tracking Tool:** [JIRA / Trello / Google Sheets]
 - **Defect Severity Levels:**
 - **Critical:** The form crashes or fails to submit.
 - **High:** Validation messages do not appear correctly.
 - **Medium:** Minor UI misalignments.
 - **Low:** Spelling errors or cosmetic issues.
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7. Risks & Mitigation Plan

Risk	Mitigation
ElementClickInterceptedException occurs on checkbox	Use <code>scrollIntoView()</code> before clicking
Browser compatibility issues	Test on different browsers
Dynamic elements may cause failures	Implement <code>WebDriverWait</code> to handle delays

8. Test Completion Criteria

- All high and critical severity defects are fixed.
 - At least 95% of test cases pass successfully.
 - Final test execution report is reviewed and approved.
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9. Test Deliverables

- Test Plan Document
 - Test Cases
 - Automation Scripts
 - Test Execution Report
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10. Approval

Name	Role	Signature
[Your Name]	Tester	[Signature]
[QA Lead Name]	QA Lead	[Signature]
[Project Manager]	Project Manager	[Signature]
