

Rest cases for Actuate URL Shortener

Frontend, backend and bugs

Frontend:

Test Case ID: TC-001

Title: Shorten a URL

Objective: Confirm that the URL shortening is working.

Steps to Reproduce:

Given the user is on the URL shortener page

When the user enters a URL "<https://example.com>"

And clicks the "Make it short" button

Then a shortened URL should be displayed

Expected Result: A shortened URL should be displayed

Severity: High

Status: Approved

Test Case ID: TC-002

Title: Retrieve the Original URL from a Shortened URL

Objective: Confirm that the original URL is retrieved when a shortened URL is provided.

Steps to Reproduce:

Given the user is on the URL shortener page

When the user enters a shortened URL "c984d0"

And clicks the "Get original" button

Then the original URL should be displayed

Expected Result: The original URL should be displayed

Severity: High

Status: Approved

Test Case ID: TC-003

Title: Shorten an Invalid URL

Objective: Verify that an error message is displayed when an invalid URL is entered.

Steps to Reproduce:

Given the user is on the URL shortener page

When the user enters a URL "invalidurlcom"

And clicks the "Make it short" button

Then an error message should be displayed

Expected Result: An error message should be displayed

Severity: Low

Status: Failed

Test Case ID: TC-004

Title: Retrieve Original URL for Invalid Shortened URL

Objective: Verify that an error message is displayed when an invalid shortened URL is entered.

Steps to Reproduce:

Given the user is on the URL shortener page

When the user enters a shortened URL "zzzz"

And clicks the "Get original" button

Then an error message "invalid shortener url" should be displayed

Expected Result: An error message "invalid shortener url" should be displayed

Severity: Low

Status: Failed

Test Case ID: TC-005

Title: Open original URL by shortened URL

Objective: Verify that URL displayed can be accessed.

Steps to Reproduce:

Given the user is on the URL shortener page

When the user enters a shortened URL "c984d0"

And clicks the "Get original" button

And the original URL should be displayed

Then the user should be redirected to the original URL "https://example.com"

Expected Result: Open browser with displayed URL

Severity: Low

Status: Failed

Test Case ID: TC-006

Title: View click count for a shortened URL

Objective: Verify click count is displayed.

Steps to Reproduce:

Given the user is on the URL shortener page

When the user enters a URL "https://example.com"

And clicks the "Make it short" button

And clicks the "Make it short" button

Then the click count for should be displayed as "2"

Expected Result: Display counter with clicks performed

Severity: Low

Status: Failed

Backend

Test Case ID: TC-007

Title: Create a shortened URL

Objective: Verify the creation of a shortened URL for a valid URL.

Expected Result: A short URL is generated and displayed.

Severity: High

Status: Passed

Test Case ID: TC-008

Title: Duplicate URL returns the same shortened URL

Objective: Verify that the same URL returns the same shortened URL.

Expected Result: Both short URLs are the same for the same original URL.

Severity: Low

Status: Passed

Test Case ID: TC-009

Title: Invalid URL returns a 400 error

Objective: Verify that an invalid URL returns a 400 error response.

Expected Result: A 400 error is returned for invalid URL input.

Severity: Medium

Status: Failed

Test Case ID: TC-010

Title: Get the original URL from the shortened URL

Objective: Verify that the original URL can be retrieved from a shortened URL.

Expected Result: The original URL is returned correctly.

Severity: Medium

Status: Passed

Test Case ID: TC-011

Title: Invalid short URL returns a 404 error

Objective: Verify that an invalid shortened URL returns a 404 error.

Expected Result: A 404 error is returned for invalid short URL.

Severity: High

Status: Failed

Test Case ID: TC-012

Title: Redirect from shortened URL to the original URL

Objective: Verify the correct redirection from short URL to original URL.

Expected Result: The user is redirected to the original URL.

Severity: High

Status: Passed

Test Case ID: TC-013

Title: Invalid short URL does not redirect

Objective: Verify that an invalid short URL does not redirect and returns a 404 error.

Expected Result: A 404 error is returned without redirection.

Severity: High

Status: Failed

Test Case ID: TC-014

Title: View click count for a shortened URL

Objective: Verify that the click count is correctly displayed for a shortened URL.

Steps to Reproduce:

Given the user has created a shortened URL

When the user accesses the short URL once

And the user checks the click count for the short URL

Then the click count should be "1"

Expected Result: The click count for the short URL should be displayed correctly.

Severity: Low

Status: Failed

Test Case ID: TC-015

Title: Invalid short URL returns 404 when accessing click count

Objective: Verify that querying an invalid short URL for click count returns a 404 error.

Steps to Reproduce:

Given the user is on the URL shortener page

When the user queries an invalid short URL for its click count (e.g., "invalid123")

Then the response should return a 404 status code

Expected Result: A 404 error is returned for invalid short URL when querying click count.

Severity: High

Status: Failed