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QA Engineer Challenge

[QA Engineer Santiago Montes de Oca]

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QA Engineer Challenge - Santiago Montes de Oca

<u>*Point 3*</u> **Exercise instructions**

Implement the following manual test:
- Given the following form:
\<label for="tentacles">Number of tentacles (10-100):\</label>
\<input type="number" id="tentacles" name="tentacles"
min="10" max="100">
\<button>Send\</button>

Extra: use Gherkin. *Also, the test cases in tables.

Resolution

Feature: Form Submission "Number of Tentacles"

Scenario: TC-01 - Enter the minimum allowed value and click Send
  Given I am on the form page
  When I enter "10" in the input field
  And I click "Send"
  Then I should see a success message displayed

Scenario: TC-02 - Enter the maximum allowed value and click Send
  Given I am on the form page
  When I enter "100" in the input field
  And I click "Send"
  Then I should see a success message displayed

Scenario: TC-03 - Enter a valid value within the range and click Send
  Given I am on the form page
  When I enter "50" in the input field
  And I click "Send"
  Then I should see a success message displayed

Scenario: TC-04 - Enter a value just above the minimum and click Send
  Given I am on the form page
  When I enter "11" in the input field
  And I click "Send"
  Then I should see a success message displayed

Scenario: TC-05 - Enter a value just below the maximum and click Send
  Given I am on the form page
  When I enter "99" in the input field
  And I click "Send"

Then I should see a success message displayed

Scenario: TC-06 - Enter a value below the minimum and click Send
Given I am on the form page
When I enter "9" in the input field
And I click "Send"
Then I should see an error message displayed

Scenario: TC-07 - Enter a value above the maximum and click Send
Given I am on the form page
When I enter "101" in the input field
And I click "Send"
Then I should see an error message displayed

Scenario: TC-08 - Enter a non-numeric value and click Send
Given I am on the form page
When I enter "abc" in the input field
And I click "Send"
Then I should see an error message displayed

Scenario: TC-09 - Leave the field empty and click Send
Given I am on the form page
When I leave the input field empty
And I click "Send"
Then I should see an error message displayed

Scenario: TC-10 - Enter a decimal number and click Send
Given I am on the form page
When I enter "10.5" in the input field
And I click "Send"
Then I should see a message indicating success or failure based on implementation

Scenario: TC-11 - Enter a decimal number with a comma, and click Send
Given I am on the form page
When I enter "10,5" in the input field
And I click "Send"
Then I should see a message indicating success or failure based on implementation

Scenario: TC-12 - Click "Send" without entering data
Given I am on the form page
When I leave the input field empty
And I click "Send"
Then I should see an error message displayed

Scenario: TC-13 - Enter a valid value and click "Send"
  Given I am on the form page
  When I enter "78" in the input field
  And I click "Send"
  Then I should see a success message displayed

Scenario: TC-14 - Enter a non-numeric value and click "Send"
  Given I am on the form page
  When I enter "abc" in the input field
  And I click "Send"
  Then I should see an error message displayed

Scenario: TC-15 - Enter a combination of letters and numbers and click Send
  Given I am on the form page
  When I enter "30abc" in the input field
  And I click "Send"
  Then I should see an error message displayed

Scenario: TC-16 - Enter symbols in the field and click Send
  Given I am on the form page
  When I enter "#" in the input field
  And I click "Send"
 Then I should see an error message displayed

Scenario: TC-17 - Enter a combination of numbers and symbols and click Send
  Given I am on the form page
  When I enter "-10" in the input field
  And I click "Send"
  Then I should see an error message displayed

Scenario: TC-18 - Enter a combination of numbers and symbols and click Send
  Given I am on the form page
  When I enter "*100" in the input field
  And I click "Send"
  Then I should see an error message displayed

Feature: Accessibility Testing

Scenario: TC-A01 - Check that the label for the input field is descriptive
  Given I am using a screen reader
  When I focus on the input field
  Then the screen reader should announce the label properly

Scenario: TC-A02 - Ensure that the input field can be navigated using only the keyboard
Given I am on the form page
When I attempt to navigate using the keyboard
Then I should be able to focus and interact with the input field

Scenario: TC-A03 - Verify contrast ratio between text and background
Given I am on the form page
When I check the contrast ratio
Then it should meet 4.5:1 for standard text

Scenario: TC-A04 - Test form submission error messages for screen reader compatibility
Given I am using a screen reader
When an error message is displayed
Then the error message should be announced clearly

Scenario: TC-A05 - Check that form errors are identified
Given I am using assistive technologies
When I submit the form with errors
Then the assistive technologies should identify input errors

Point 4 **Exercise instructions**

Write the following bug report:
While performing the 2nd test on point 1 (Top Box Office test) you found each time you try to rate a movie with 10 stars, the Rate button is not enabled, so you cannot submit the data. Write a bug to report this issue.

Resolution

Test Environment

Browsers:

- Google Chrome Version 120.0.6099.199 (Build oficial) (x86_64)
- Firefox Browser Version 130.0 (64-bit)

Operating System: OS Catalina 10.15.7

🌐 **Preconditions**: The web page " https://www.imdb.com/ "is accessible.

👤 **Test Case Execution:** Santiago J. Montes de Oca

👤 **Test Case Author**: Santiago J. Montes de Oca

Test Case ID: TC_2RateMovie_001

Test Case Title: Verify Rating a Movie with 10 Stars

🎯 **Test Objective**: To ensure that the "Rate" button is enabled when a user tries to rate a movie with 10 stars.

Test Steps:

1. Go to IMDb.com, unfold the Menu, and navigate to the Top Box Office section.

Expected Result: The Top Box Office section is successfully loaded.

2. Click on the 2nd item on the Top box office list.

Expected Result: The movie details page is successfully loaded.

3. Click on the IMDb Rating button.

Expected Result: The rating modal is displayed.

4. Click on the Rate button, set a 10 stars rating, and click on the Rate button in the modal.

Expected Result: The Rate button should be enabled, allowing the user to submit the data.

Postconditions: The rating should be submitted successfully if the Rate button is enabled.

Test Outcome: **Fail** ❌

Notes and Comments: Each time the user tries to rate a movie with 10 stars, the Rate button is not enabled, preventing submission.

📎 **Attachments**: [None]

📅 **Date**: 18/10/2024

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Extra Point 3 - QA Engineer Challenge - Santiago Montes de Oca

Summary
This set of test cases evaluates the functionality and behavior of the "number of tentacles" input field (range: 10-100). It is presented in this format, although due to access and export limitations, I didn't do it in JIRA. In JIRA, additional fields could be added, such as Actual Result, Outcome, Tester who executed the test, Environment, Objective, Notes, etc. The testing types and techniques used include: **Functional Testing**: Ensures the form functions as intended. **Boundary Testing**: Examines the limits of acceptable values (10-100). **Equivalence Partitioning**: Divides input data into valid and invalid partitions, where all values within a partition are expected to behave similarly. **User Interaction Testing**: Assesses how the form responds to user actions. The **accessibility** test cases ensure that the form complies the key WCAG principles, providing an inclusive experience for all users. These principles cover perceivability, operability, understandability, and robustness.

Test Cases for "Number of Tentacles" Input Field Validation

ID	Description	Input Data	Expected Result	Test Technique	State	Priority
TC-01	Enter the minimum allowed value and click Send	10	Success message displayed	Boundary Value Analysis	To Do	High
TC-02	Enter the maximum allowed value and click Send	100	Success message displayed	Boundary Value Analysis	To Do	High
TC-03	Enter a valid value within the range and click Send	50	Success message displayed	Equivalence Partitioning	To Do	Medium
TC-04	Enter a value just above the minimum and click Send	11	Success message displayed	Boundary Value Analysis	To Do	Medium
TC-05	Enter a value just below the maximum and click Send	99	Success message displayed	Boundary Value Analysis	To Do	Medium
TC-06	Enter a value below the minimum and click Send	9	Error message displayed	Boundary Value Analysis	To Do	High
TC-07	Enter a value above the maximum and click Send	101	Error message displayed	Boundary Value Analysis	To Do	High
TC-08	Enter a non-numeric value and click Send	abc	Error message displayed	Equivalence Partitioning	To Do	High
TC-09	Leave the field empty and click Send	(empty)	Error message displayed	Equivalence Partitioning	To Do	High
TC-10	Enter a decimal number and click Send	10.5	Depending on implementation, accepts or rejects the value	Equivalence Partitioning	To Do	Medium
TC-11	Enter a decimal number with coma, and click Send	10,5	Depending on implementation, accepts or rejects the value	Equivalence Partitioning	To Do	Medium
TC-12	click "Send" without entering data	(empty)	Error message displayed	Equivalence Partitioning	To Do	Medium
TC-13	Enter a valid value and click "Send"	78	Success message displayed	Equivalence Partitioning	To Do	High
TC-14	Enter a non-numeric value and click "Send"	abc	Error message displayed	Error Guessing	To Do	High
TC-15	Enter a combination of letters and numbers and click Send	30abc	Error message displayed	Error Guessing	To Do	Medium
TC-16	Enter symbols in the field and click Send	#	Error message displayed	Error Guessing	To Do	Medium
TC-17	Enter a combination of numbers and symbols and click Send	-10	Error message displayed	Error Guessing	To Do	Medium
TC-18	Enter a combination of numbers and symbols and click Send	*100	Error message displayed	Error Guessing	To Do	Medium

Accessibility Test Cases (Based on WCAG Guidelines)

ID	Description	Expected Outcome	WCAG Principle
TC-A01	Check that the label for the input field is descriptive	Screen readers (such as NVDA) should announce the label properly	Perceivable
TC-A02	Ensure that the input field can be navigated using only the keyboard	User should be able to focus and interact via keyboard	Operable
TC-A03	Verify contrast ratio between text and background	Contrast ratio should meet 4.5:1 for standard text	Perceivable
TC-A04	Test form submission error messages for screen reader compatibility	Error messages should be announced clearly	Understandable
TC-A05	Check that form errors are identified	Assistive technologies should identify input errors	Robust