# VAT Calculator test cases:

**Test Case 1: Verify Page Load**

**Test Objective:** Ensure that the VAT calculator page loads successfully.

* **Precondition:** The user has access to a web browser and an internet connection.
* **Test Steps:**
  1. Navigate to the URL: <http://www.calkoo.com/?lang=3&page=8>.
* **Expected Result:**
  1. The VAT calculator page loads completely without errors.
  2. All elements (input fields, labels, buttons) are visible and interactable.

**Test Case 2: Calculate VAT for a Positive Value**

**Test Objective:** Verify the VAT calculation for a standard positive value.

* **Precondition:** The VAT calculator page is loaded.
* **Test Steps:**
  1. Enter 100 in the "Price excluding VAT" input field.
  2. Check 20% in the "VAT rate (%)" checkbox field.
* **Expected Result:**
  1. The "VAT amount" should be 20.00.
  2. The "Price including VAT" should be 120.00.

**Test Case 3: Calculate VAT for Zero Price**

**Test Objective:** Verify the VAT calculation when the price is zero.

* **Precondition:** The VAT calculator page is loaded.
* **Test Steps:**
  1. Enter 0 in the "Price excluding VAT" input field.
  2. Check 20% in the "VAT rate (%)" checkbox field.
  3. Click the "Calculate" button.
* **Expected Result:**
  1. The "VAT amount" should be 0.00.
  2. The "Price including VAT" should be 0.00.

**Test Case 4: Calculate VAT for a Negative Value**

**Test Objective:** Verify the VAT calculation when a negative value is entered as the price.

* **Precondition:** The VAT calculator page is loaded.
* **Test Steps:**
  1. Enter -100 in the "Price excluding VAT" input field.
  2. Check 20% in the "VAT rate (%)" checkbox field.
* **Expected Result:**
  1. The system should display an error message

**Test Case 5: Change the VAT rate**

**Test Objective:** Verify the VAT calculation for all rates.

* **Precondition:** The VAT calculator page is loaded.
* **Test Steps:**
  1. Enter 100 in the "Price excluding VAT" input field.
  2. Check 5% in the "VAT rate (%)" checkbox field.
* **Expected Result:**
  1. The "VAT amount" should be 5.00.
  2. The "Price including VAT" should be 105.00.

**Test Case 6: Calculate VAT for other country**

**Test Objective:** Verify the VAT calculation for multiple countries.

* **Precondition:** The VAT calculator page is loaded.
* **Test Steps:**
  1. Change the country to “Romania”
  2. Enter 100 in the “Price excluding VAT” input field
  3. Check 5% in the "VAT rate (%)" checkbox field.
* **Expected Result:**
  1. The "VAT amount" should be 5.00.
  2. The "Price including VAT" should be 105.00.
  3. The Chart is displayed

**Test Case 7: Verify Input Validation for Non-numeric Values**

**Test Objective:** Ensure the input fields handle non-numeric values correctly.

* **Precondition:** The VAT calculator page is loaded.
* **Test Steps:**
  1. Enter abc in the "Price excluding VAT" input field.
* **Expected Result:**
  1. No VAT amount or price including VAT should be calculated.

**Test Case 8: Verify Input Limits (Boundary Testing)**

**Test Objective:** Test the behavior when entering very large numbers.

* **Precondition:** The VAT calculator page is loaded.
* **Test Steps:**
  1. Enter 999999999999999 in the "Price excluding VAT" input field.
* **Expected Result:**
  1. The system should correctly calculate the VAT amount and the total price.
  2. The system should handle large inputs without crashing or freezing.

**Test Case 9: Verify Reset Button Functionality**

**Test Objective:** Verify that the "Reset" button clears the input fields and results.

* **Precondition:** The VAT calculator page is loaded and has calculated values displayed.
* **Test Steps:**
  1. Change the country to “Romania”
  2. Enter 100 in the "Price excluding VAT" input field.
  3. Check 5% in the "VAT rate (%)" checkbox field.
  4. Click the "Reset" button.
* **Expected Result:**
  1. All input fields should be cleared.
  2. Any calculated results should also be cleared.

**Test Case 10: Verify Localization Support**

**Test Objective:** Verify that the page supports multiple languages correctly.

* **Precondition:** The VAT calculator page is loaded.
* **Test Steps:**
  1. Change the language from the dropdown to a different language.
  2. Ensure that the labels, buttons, and other texts are translated correctly.
* **Expected Result:**
  1. The page should reflect the selected language, with correct translations for all elements.

**Test Case 11: Negative test – Verify Amounts with more than 2 decimal digits**

**Test Objective:** Verify that the page is not supporting more than 2 digits

* **Precondition:** The VAT calculator page is loaded.
* **Test Steps:**
  1. Enter amounts > 999.999.999 in the "Price excluding VAT" input field.
* **Expected Result:**
  1. A meaningful error message should be displayed.

**Test Case 12: Calculate VAT with High VAT Rate**

**Test Objective:** Verify the VAT calculation with an unusually high VAT rate.

* **Precondition:** The VAT calculator page is loaded.
* **Test Steps:**
  1. Enter 100 in the "Price excluding VAT" input field.
  2. Enter 100 in the "VAT rate (%)" input field.
* **Expected Result:**
  1. The "VAT amount" should be 100.00.
  2. The "Price including VAT" should be 200.00.

Bugs:

1. User can’t type amounts > 999.999.999 and no error is shown
2. Clicking on any input field, the amounts are disappearing
3. Chart % info don’t change if I type another price without VAT
4. Chart info is wrong. (For price = 1000, it shows 83.3 % and 16.7% VAT)

Bug ticket example:

**Title**: Clicking on any price input field, resets the value

**Description**: If the user calculate the Value-added tax and price incl. VAT and then he clicks on any input fields, the price from that input is deleted

**Steps to reproduce**:

1. Open the VAT calculator
2. Select the country
3. Fill the price without VAT
4. Click on Price incl.VAT input field

**Actual result**: The price is removed

**Expected**: The input field should be disabled, and the price should be displayed