**Question 1 answers**

1. Using the database and the GUI, how would you test the functionality of this form?

Ans:

* Verify that the form shows the correct calculation based on selected currencies.
* Test that the correct currencies are showing in the base and target currency fields from the data base.
* Test that correct commission is added based on the rules set on the database if user selects the include commission in the calculation and check that commission is not added if user excludes the commission
* Test the form with different set of base and target currencies.
* Verify that the form handles error cases such as selecting invalid currencies, entering invalid amounts, database connection errors.

1. What tests would you perform to test the operations supported by the “Maintain currencies” form?

Ans:

* Test that add, edit and delete functionalities are working as expected on Maintain currencies” form.
* Test that invalid data is not accepted during these operations.
* Test the boundary cases for the input fields.

1. What tests would you perform to test the operations supported by the “Maintain commission rates” form?

Ans:

* Test that correct commission rates are applied during calculation based on the defined ranges and rules.
* Test adding commission rates for different ranges of values and ensure they are stored accurately in the database.
* Verify that commission rates are applied correctly during currency conversion based on the defined ranges and rules.
* Test editing and deleting commission rates to ensure the changes are correctly reflected in the conversion process.
* Validate input fields for proper validation, such as checking for valid ranges,

1. What tests would you perform on the form above to test accessibility?

Ans:

* Test that the form has a logical structure, with headings and subheadings used to group related fields and information.
* Test that each form field has a clear label and that the label is explicitly associated with the field.
* Test that all form elements can be accessed and filled out using only the keyboard.
* Test the error handling.
* Test the focus indicator in the fields.
* Test that the form meets color contrast guidelines for users with visual impairments.
* Test the form with various screen resolutions and ensure that all UI elements are properly displayed and aligned.
* Test the form in different browser configurations.

1. If you were automating the testing of this form for regression test purposes, what would you hope the developer had done to make the automation easier?

Ans:

* Ensure that each element in the form has appropriate and unique identifiers, such as IDs or class names, to easily locate and interact with them during automation.
* Include consistent naming conventions for UI elements to maintain stability in test scripts.
* Design the form with a clear and organized structure, allowing for easier identification and manipulation of elements during automation.
* Implement proper error handling and error messages so that automation scripts can handle and verify error scenarios.
* Provide API endpoints or methods to programmatically control the start and stop of the separate process responsible for updating the database, allowing automation scripts to manage the process as needed.
* Provide the calculation formulas in the UI so that for tester it will be easy to understand calculation and also display the commission rates when you select the check box.

1. If this application were used internationally, what further tests would you perform?

Ans :

* Test the currency conversions involving various international currencies to ensure accurate conversion rates.
* Test that currency symbols and formatting are correctly displayed according to the selected target currency.
* Test with different regions currencies.
* Localization and globalization testing

1. The screenshot of the form above shows immediately apparent user interface issues (you may have mentioned some of these in previous answers)?

Ans:

* The label names should be in camel case.
* Provide reset button to clear the values.
* N/A is displayed.
* Proper tool tips to be displayed after when you mouse over on the field.

**Question 2 and Question 3 can be found in below link repo.**

[Santoshkunkur/TestMoney (github.com)](https://github.com/Santoshkunkur/TestMoney)