**Question 1.**

**1.**

First, I would make sure that all the currencies stored in the data base are displayed in the dropdowns and can be selected.

Then I would check that there are exchange rates and the rules for the commission are also set.

Then I would replicate a scenario where I want to convert 100GBP to USD to make sure the amount converted is the correct one.

To execute this scenario, I would look for the exchange rate of GBPUSD stored in the data based. For example: GBPUSD = 1.25. That means if I want to convert 100GBP I should get 125USD.

I would first test the functionality without including commission and then including the commission in the calculation. For the commission the amount in target should be subtracted and verify that for example for a 100 GBP amount the commission is 5% in this case 5GBP.

I would test for multiple currencies and multiple exchange rates. Combining different ranges of values for different commission percentages.

**2.**

* Adding a new currency: Verify that the new currency added is display in the 2 dropdowns.
* Deleting currency: Ensure that when you delete the specific currency, this one is no longer displayed in the 2 dropdowns.
* Editing currency: Verify that changing the currency string updates the currency in the 2 dropdowns.

3.

* Check commission rate for a specific range – Positive scenario: Check that for a predetermined range the commission rate is applied for that range.
* Check commission rate for a specific range – Negative scenario: Given a wrong input for a selected range verify that the commission rate is not applied.
* Check minimum commission value applies: Ensure that even for a low amount to convert, the minimum commission specified applies.
* Check commission rate calculation: Ensure the commission rate is calculated appropriately.
* Check for commission value and ranges are define in Sterling.
* Check multiple ranges values: Ensure the application support entering more than 2 value ranges.

4.

* Keyboard Accessibility Test: Ensure that all functionality and interactive elements can be accessed and operated using only the keyboard.
* Colour Contrast Test: Verify that there is sufficient contrast between text and background colours to ensure readability. Use tools like the WebAIM Contrast Checker or browser extensions to assess colour contrast ratios.
* Screen Reader Test: Use a screen reader software, such as NVDA (NonVisual Desktop Access) or VoiceOver, to navigate through the content and ensure it is properly announced.
* Heading Structure Test: Confirm that the document structure is organized using proper headings (H1, H2, H3, etc.) in a hierarchical manner. Headings help screen reader users navigate through the content easily.
* Form Accessibility Test: Ensure that form fields have descriptive labels, clear instructions, and proper error messages. Check that users can navigate through the form using the keyboard and submit it successfully.
* Link and Button Test: Verify that links and buttons have meaningful and descriptive text. Avoid using generic terms like "Click Here" or "Read More." Screen reader users rely heavily on these cues to understand the purpose of interactive elements.

5.

Specify a class for each interactable element. For example [class= “automation-l” and

define an unique id for each element. For example: id = “Convert-btn”, id = “base-currency-input" etc.

6.

* Unicode Support: Ensure that the system can handle and display Unicode characters properly. Test by entering and displaying text in different languages and scripts, such as Chinese, Arabic, Cyrillic, and others.
* Language Support: Test the website or application with different languages, checking that the interface elements (labels, menus, buttons) and content can be properly translated and displayed in various languages.
* Number Formats: Ensure that number formats, decimal separators, and digit grouping follow the conventions of the user's locale.
* Text Expansion and Contraction: Test the interface and content with different languages to ensure that text expansion or contraction does not break the layout or cause overlapping.
* Localization Testing: Conduct thorough testing with native speakers or localization professionals who can review and verify the accuracy of translations.

7.

* Colour contrast text is not ensured for readability
* Text size is not appropriate for readability
* Colour contrast on the title: Currency converter is not readable
* Heading structure is not very organised
* Misspelling in the title “Currency Converson”