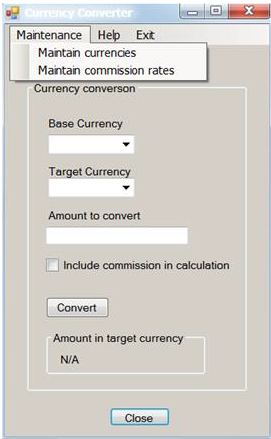
**Question 1**

**Introduction**

The following is the main form of an application that converts values from one currency to another. The application has the following characteristics:

* The collection of currencies, exchange rates, and rules for applying commission are held in a shared database, accessed by multiple users of this application on a network.
* The user of this form selects a base currency, a target currency, specifies an amount (expressed in the base currency), can choose to include or exclude commission, and then hits the Convert button to generate the equivalent value in the target currency. The screenshot below shows that value where “N/A” is displayed.
* The separate “Maintain currencies” form (not shown) provides operations for adding, deleting and editing currencies.
* A separate process constantly updates the database with exchange rates for any recognised currencies (you do not need to worry about how this works, but you do have control over stopping and starting it).
* The separate “Maintain commission rates” form (not shown) provides operations for specifying a minimum commission value and a collection of commission rates for different ranges of values. The minimum commission value and ranges are defined in Sterling. For example, for “amount to convert” values in the range of 0.01 to 100.00 pounds Sterling, the commission rate is 5%. An example minimum commission value is £10.



Given the information provided, please answer the following questions:

1. Using the database and the GUI, how would you test the functionality of this form?
   1. Smoke testing – To make sure all the fields present and enabled to edit/click and also in default mode
   2. Positive Cases
      1. Validating the user can choose all the available base currency option in dropdown
      2. Validating the user can choose all the available target currency option in dropdown
      3. Validating the conversion of base currency to target currency for few options from base currency and target currency one by one without including the commission in calculation and validate the target currency value matches with expected
      4. Validating the conversion of base currency to target currency for few options from base currency and target currency one by one with including the commission in calculation and validate the target currency value matches with expected and commission matches with expected
      5. Validating the conversion for different amounts from minimum zero to maximum limit given
      6. Validate the user can close and open application
      7. Validate the user can change the base currency and target currency at any time
   3. Negative Cases
      1. Validating the user trying to paste the text in the dropdown
      2. Validating the user can give negative values in the amount textbox
      3. Validating the conversion of base currency to target currency for the beyond the maximum range without including commission rates
      4. Validating the conversion of base currency to target currency for the beyond the maximum range with including commission rates
      5. Validate the user can paste the image, or video or unsupported format in the amount textbox
      6. Validate the user clicks the convert button multiple times
      7. Validate the user conversion without connecting the network
      8. Verify the form won’t accept negative values, alphabets, special characters, spaces
2. What tests would you perform to test the operations supported by the “Maintain currencies” form?
   1. Smoke testing - To make sure all the fields present and enabled to edit/click and also in default mode
   2. Functional testing -> positive and negative testing
      1. Validate the user can add the currency in the maintain currency form
      2. Validate the user can edit the currency in the maintain currency form
      3. Validate the user can delete the currency in the maintain currency form
      4. Validate the user adding the currency which is not present in the base currency and target currency
      5. Validate the user editing the currency which is not present in the base currency and target currency
      6. Validate the user can delete only the given range
      7. Verify the form won’t accept negative values, alphabets, special characters, spaces while adding and editing currency
   3. Non Functional testing -> Load testing, Stress testing, accessibility testing, usability testing
      1. Verify the form is user friendly
      2. Verify the form accessed all various users
      3. Verify the multiple users are using the form at same time
      4. Verify the multiple users using the form at same time beyond the limit and how much user can maximum can use the form at same time
      5. Verify the form working on different browsers & different platform
      6. Verify the form working on screen size and different zoom level
      7. Verify how much data is secure while user getting results
   4. Database Testing
   5. API Testing
   6. Mobile Testing
3. What tests would you perform to test the operations supported by the “Maintain commission rates” form?
   1. Smoke testing - To make sure all the fields like minimum commission value and collection of commission rates present and enabled to edit/click and also in default mode
   2. Functional testing -> positive and negative testing
      1. Verify the user can give the amount in pounds sterling
      2. Verify the user can find the commission value in dollars with symbol
      3. Verify the user can convert the amount in the given range by passing the pounds and make sure the commission rate is 5% shown in dollars
      4. Verify the user can convert the amount with minimum range 0.01pounds
      5. Verify the user can convert the amount with maximum range of 100.00pounds
      6. Verify the form won’t accept if user gives beyond the maximum range like 100.01, 100.1,101 datas
      7. Verify the form won’t accept if user gives beyond the minimum range like 0, 0.00,0.0
      8. Verify the form won’t accept negative values, alphabets, special characters, spaces
   3. Non Functional testing -> Load testing, Stress testing, accessibility testing, usability testing
      1. Verify the form is user friendly
      2. Verify the form accessed all various users
      3. Verify the multiple users are using the form at same time
      4. Verify the multiple users using the form at same time beyond the limit and how much user can maximum can use the form at same time
      5. Verify the form working on different browsers & different platform
      6. Verify the form working on screen size and different zoom level
      7. Verify how much data is secure while user getting results
   4. Database Testing
   5. API Testing
   6. Mobile Testing
4. What tests would you perform on the form above to test accessibility?
   1. For accessibility we have to use different category of users like
      1. Physically Challenged People
      2. Children
      3. Old Age users
      4. Blind users
5. 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?
   1. Developer should complete the UI to make the complete the execution
   2. Developer shouldn’t change the webelements frequently
   3. Developer should not include dom structure frequently
   4. Developer should make unique webelement to make sure driver elements should reach that.
6. If this application were used internationally, what further tests would you perform?
   1. Geo location testing Needs to perform
   2. User able to use the application on regional language if it is available in application
7. The screenshot of the form above shows immediately apparent user interface issues (you may have mentioned some of these in previous answers)?