Test Cases for the Tip Calculator Application.

--> First Test Case Scenario will be for the UI of the Tip Calculator:-

- **UI Testing**

1)Check if the alignment of all the components is proper relative to other components.

2)Dynamic resizing during runtime scenarios.

3)Browser resizing scenarios.

4)Ensure no Overlap between components and no overlap between the elements in the component.

5)Watch the boundaries. As an example there may be a dropdown at the bottom whose list may exceed the scope of the screen when expanded.

- **Usability Testing**

1)Check if Tooltips are present wherever necessary.

2)Title ,Subtitle and other information should convey clearly what data is the chart showing.

3)Scroll Bars are necessary when the list exceeds the scope.

4) Warning,Warming messages at necessary actions.

5) Validations – As an example if a user has selected an invalid filter , there should be a nice message instead of an error.

--> 2nd Test case **Scenario will be functioning of the Tip Calculator.**

1) **Verify that all the specified fields are present on the Tip Calculator.**

2) **Verify that the required/mandatory fields are marked with * against the field.**

3) **Verify that clicking Calculate button after entering all the required fields, submits the data and calculate the Tip and show the result in the given result fields.**

4) **Check that not filling the mandatory fields and clicking the Calculate button will lead to a validation error.**

5) **Verify that after filling all the fields and clicking the Calculate button will still send data to the backend without any validation error and show the desired results.**

6) **Check validation on numeric fields by entering alphabets and special characters.**

7) Check that leading and trailing spaces are trimmed.

8) Verify that entering blank spaces on mandatory fields leads to the validation error.

9) Verify that all the fields such as Amount,Tip, no of people has a valid placeholder.

10) Verify whether all the text boxes have a minimum and maximum length.

11) Verify that the all the values are taken as a round value.

12) Verify the HTML attributes are at correct place like ‘ form tag’ should be inside the ‘ HTML tag’ and ‘ BODY tag’.

13) Verify that the HTML attributes have their values and Description.

14) Verify that the ‘ id value’ names is fetched correctly when called while programming.

15) Check if the functionality using BODMAS/BIDMAS works as expected.

16) Check the code written for calculating percentage is working as expected.

17) Verify that the code should contain proper code comments for Classes/Methods/Properties.

18) Verify that The final code should not contain any unused code segment.

19) The CSS for the application should have a proper names given not just some random names.

20) Verify if the user can delete digits one by one using the backspace key.

21) Verify that the JS and CSS code is called in the HTML page at correct place.

22) Verify that there are no syntax error in code.

23) Check after the clicking on clear button all the values in data fields get erased.

24) Verify that if User give input in decimal form then a validation error should be displayed.

25) Verify that proper Fonts are applied in the Calculator so that it is easily understandable to the user.

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