**Technical Assignment – Tip Calculator**

**Test Cases**

**Test Case 1:**

Test the app to check only numbers can be input into each of the three fields and no other input type is accepted.

**Test Case 2:**

Test the app to ensure that the paste functionality is disabled for each of the three fields so that no user is able to copy and paste any invalid data into the fields.

**Test Case 3:**

Test the app to check if a user is able to input decimal values as well as integer values in the bill amount field.

**Test Case 4:**

Test the app to check if it throws an exception and which when caught alerts the user in case he/she types a negative value in the bill amount field.

**Test Case 5:**

Test the app to ensure a user is restricted to provide only positive integer input in the tip amount field.

**Test Case 6:**

Test the app to check if a user is able to successfully increment/decrement tip value by 1 in the tip amount field using the ‘+‘ / ‘-’ buttons provided.

**Test Case 7:**

Test the app to ensure that the tip value cannot be decremented below 0 using the ‘- ‘button.

**Test Case 8:**

Test the app to ensure that the tip value cannot be incremented above 30 using the ‘+ ‘button. *(Assuming max tip amount is fixed at 30%)*

**Test Case 9:**

Test the app to check if it throws an exception which when caught alerts the user if he/she types a value > 30 in the tip amount field.

**Test Case 10:**

Test the app to ensure a user is restricted to provide only positive integer input in the number of people field.

**Test Case 11:**

Test the app to check if a user is able to successfully increment/decrement the value of number of people field by 1 using the ‘+‘ / ‘-’ buttons provided.

**Test Case 12:**

Test the app to ensure that the number of people value cannot be decremented below 0 using the ‘- ‘button.

**Test Case 13:**

Test the app to check if it throws an exception which when caught alerts the user if he/she tries to calculate tip/bill without specifying the number of people such that the value in the number of people field is 0.

**Test Case 14:**

Test the app to check if upon entering the appropriate values for every input field and clicking the button ‘calculate’ the bill amount per person and tip amount per person is calculated and displayed to the user.

**Test Case 15:**

Test the app to check that the calculated bill amount and tip amount per person are rounded correctly to 2 decimal places.

**Test Case 16:**

Test the app to check if the user interface(ui) is neat and aesthetic to look at.

**Test Case 17:**

Test the app to ensure the font size is appropriate and the font is readable

**Test Case 18:**

Test the app to check its compatibility with different browsers and ensure its functionality and user experience is uniform irrespective of the browser used.

**Test case 19:**

Test the app to check its user interface remains intact on devices of different screen sizes and resolutions.

**Test case 20:**

Test the app to ensure user experience is smooth and pleasing.