TEST CASES FOR TESTING THE FUNCTIONALITY FOR TIP CALCULATOR

FUNCTIONAL TESTING

* Test all the mandatory fields should be validated.
* Test the asterisk sign should display for all the mandatory fields.
* Test the system should not display the error message for optional fields.
* Test the numeric fields should not accept the alphabets and proper error message should display.
* Test for negative numbers if allowed for numeric fields.
* Test division by zero should be handled properly for calculations.
* Test the max length of every field to ensure the data is not truncated.
* Test the pop up message should display if the data is not valid
* Test the amount values should display in currency format.
* Test all input fields for special characters.
* Test the functionality of the buttons available
* Test if any functionality fails the user gets redirected to the custom error page.
* Test all the uploaded documents are opened properly.
* Test the[Java](https://www.guru99.com/java-tutorial.html)script is properly working in different browsers (IE, Firefox, Chrome, safari and Opera).

USER INTERFACE TESTING

* Ensuring the app’s compliance with the specified standards of UI
* verifying widely used screen resolutions: 640 × 480, 800 × 600, 1024 × 768, 1280 × 800, etc.
* Ensuring responsiveness of the mobile application across different device types.
* Testing all the design elements in the GUI: buttons, icons, colours, links, layout, text boxes, text formatting, buttons, lists etc.
* Ensuring that any banners or advertising do not overlap on application control buttons.

SECURITY TESTING

* Ensure DOS and DDOS attack
* Protection from malicious hackers
* Protection from cross site forgery attacks
* Protecting the application from malicious attacks from hackers
* Protecting the system from malicious CSS (cross site scripting) attacks
* Preventing potential malicious consequences of file caching
* Examining user uploaded files and preventing any possible harmful effect
* Analyse system files and identifying and fixing vulnerabilities
* Preventing possible malicious consequences of cookies

USABILITY TESTING

1.User satisfaction

2.Application Efficiency

3.Overall Effectiveness

– Making sure that the buttons are not of too small size

– Verifying that the mobile app works in multitasking mode, when necessary  
 – Checking that the navigation work as expected

– Verifying the colour of different screen elements and making sure that they are

as per design.  
 – Ensuring that the text size is enough to make them visible to the user

PERFORMANCE TESTING

1.Load Testing: Testing the application in normal as well as extreme condition

2.stress testing

3.Stability Testing: Checking the stability of the application

4.concurrency testing