

# Income Tax Calculation-System-Test analysis and design

1. Verify the tax calculator responsiveness for the **Desktop**
  - **Action:** on Web browser open <http://24.199.68.169:3000/>
  - **Expected result:** All the Tax calculator components' positions should be maintained according to the Desktop devices
  - **What to Measure:** All the Tax calculator components will work on Desktop devices. The test is a pass(100%) if the position remains consistent. Otherwise, it's a failure.
2. Verify the tax calculator responsiveness for **Mobile**
  - **Action:** on Web browser open <http://24.199.68.169:3000/>
  - **Expected result:** All the Tax calculator components' positions should be maintained according to the Mobile devices
  - **What to Measure:** All the Tax calculator components will work on Mobile devices. The test is a pass(100%) if the position remains consistent. Otherwise, it's a failure.
3. Verify the tax calculator responsiveness for **Tablets**
  - **Action:** on Web browser open <http://24.199.68.169:3000/>
  - **Expected result:** All the Tax calculator components' positions should be maintained according to the Tablets devices
  - **What to Measure:** All the Tax calculator components will work on Tablets devices. The test is a pass(100%) if the position remains consistent. Otherwise, it's a failure.
4. Verify the tax calculator's compatibility with Windows (10)
  - **Action:** on Web browser open <http://24.199.68.169:3000/>
  - **Expected result:** All the Tax calculator components should perform, on Windows.
  - **What to measure:** All the Tax calculator component's functions will work or not in Chrome, Firefox, Edge
5. Verify the tax calculator's compatibility with iOS
  - **Action:** on Web browser open <http://24.199.68.169:3000/>
  - **Expected result:** All the Tax calculator components should perform on the iOS
  - **What to measure:** All the Tax calculator component's functions will work or not in Chrome, Firefox, Edge

6. Verify the tax calculator's compatibility with Android
  - **Action:** on Web browser open <http://24.199.68.169:3000/>
  - **Expected result:** All the Tax calculator components should perform in Android.
  - **What to measure:** All the Tax calculator component's functions will work or not in Chrome, Firefox, Edge
  
7. Verify the API returns the correct tax amount for the given income of \$0
  - **Action:** on Web browser open <http://24.199.68.169:3000/> and insert income as 0
  - **Expected outcome:** Appropriate error message
  - **What to Measure:** The tax Calculator not accepting invalid income of \$0
  
8. Verify that the Tax calculator is accessible with the color contrast
  - **Action:** on Web browser open <http://24.199.68.169:3000/>
  - **Expected outcome:** Tax calculator components Accessible for the color blind users.
  - **What to Measure:** The tax calculator meets the WCAG 2.1 AA
  
9. Verify the Accessibility of the Tax calculator components when the users interact with TAB key.
  - **Action:** on Web browser open <http://24.199.68.169:3000/>
  - **Expected outcome:** Tax calculator components will be able to navigate through the TAB key.
  - **What to Measure:** The tax calculator is accessible with the keyboard or not
  
10. Verify the Tax calculator components' responsiveness rotation option for mobile device .
  - **Action:** on Web browser open <http://24.199.68.169:3000/>
  - **Expected outcome:** Positions should be maintained according to the mobile devices
  - **What to Measure:** Measure that all the elements including Input field, button component remain visible and usable regardless of the screen size of the Mobile Devices.