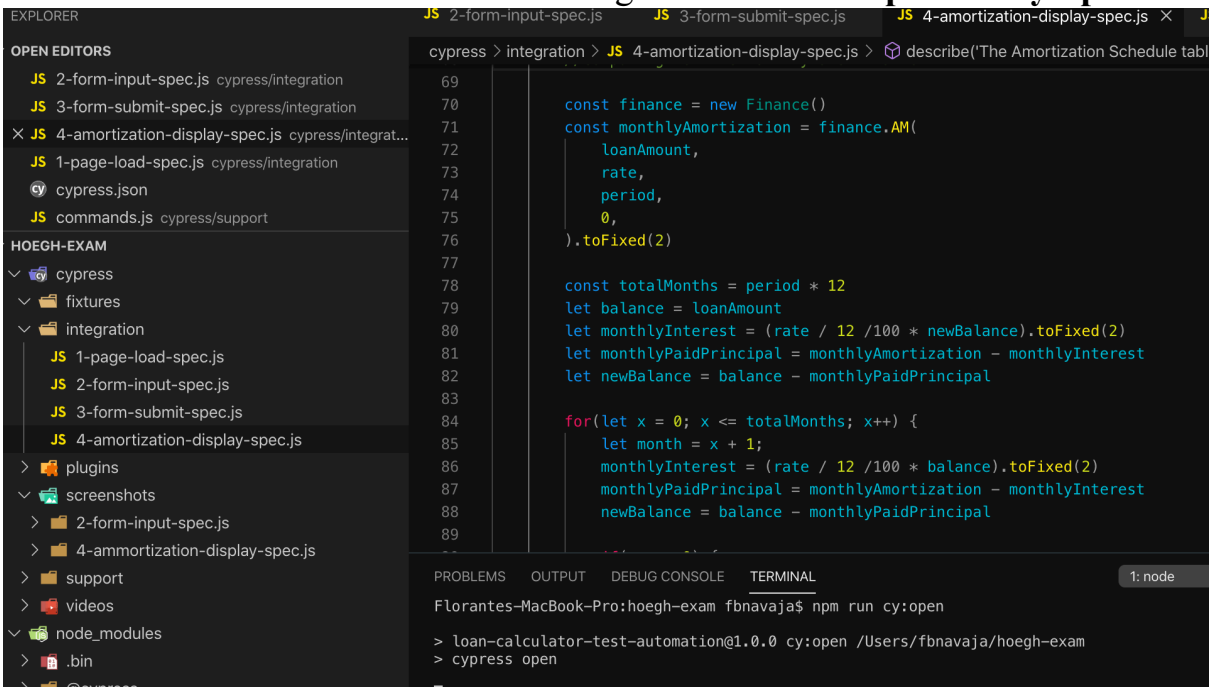
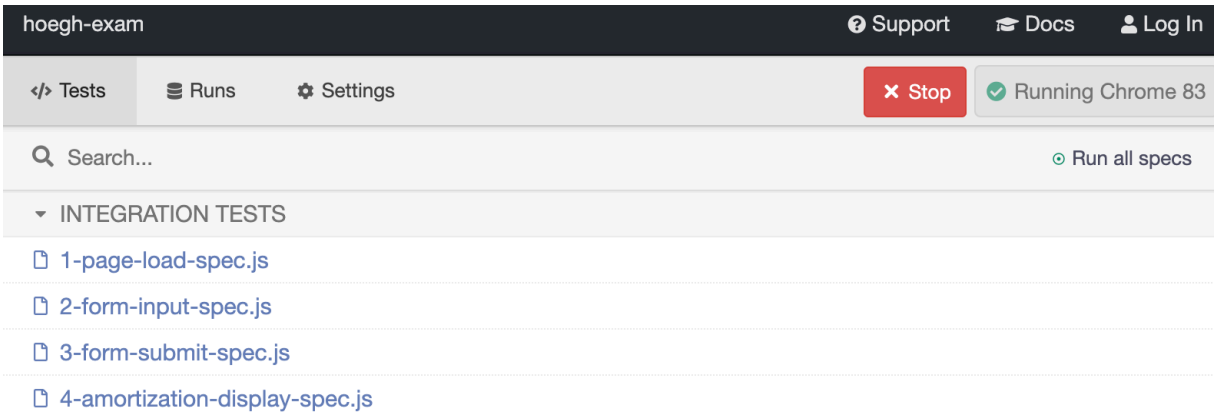
Test Automation Results

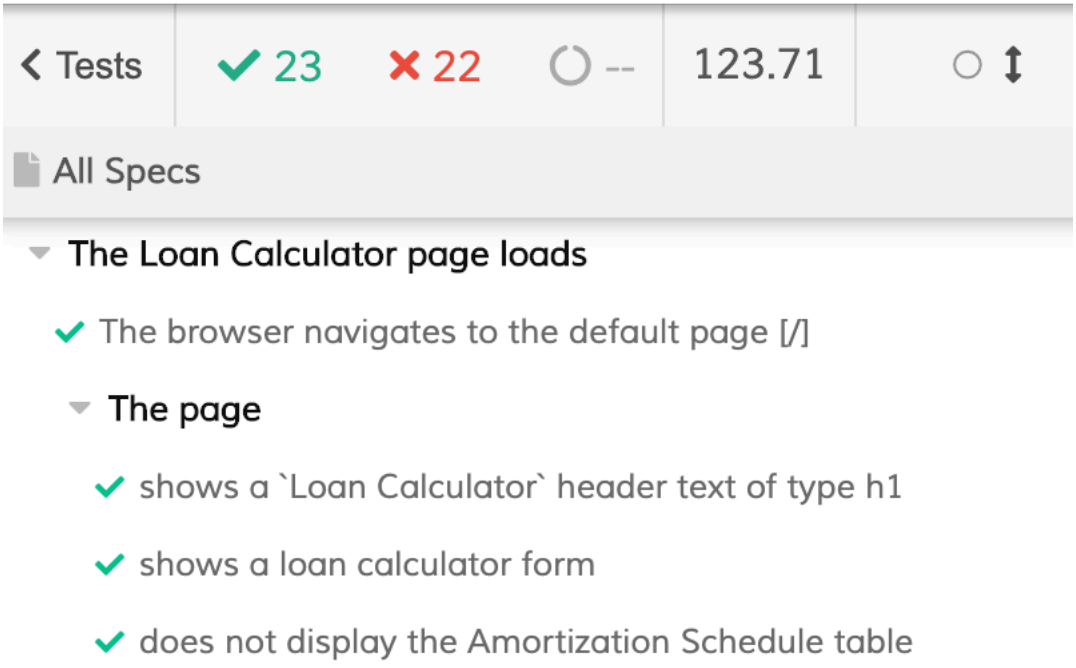
Using Cypress.io

Please find below the test result after running all integration tests via the cypress test automation framework. Execute using the command: **npm run cy:open**

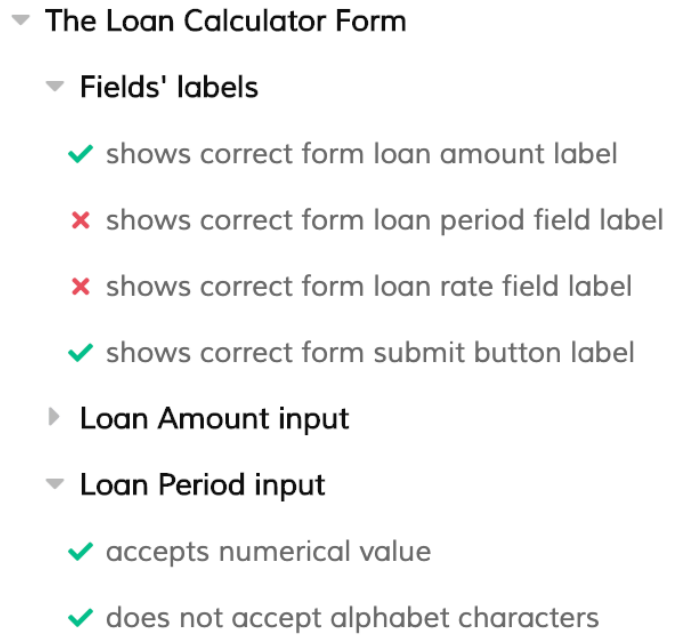




I.


Tests
23
22
--
123.71
All Specs
The Loan Calculator page loads
The browser navigates to the default page [/]
The page
shows a `Loan Calculator` header text of type h1
shows a loan calculator form
does not display the Amortization Schedule table

II.


The Loan Calculator Form
Fields' labels
shows correct form loan amount label
shows correct form loan period field label
shows correct form loan rate field label
shows correct form submit button label
Loan Amount input
Loan Period input
accepts numerical value
does not accept alphabet characters

III.

- The Loan Calculator Form Submit
  - Form is submitted
    - ✓ does not submit on negative loan amount
    - ✓ does not submit on zero loan amount
    - ✓ does not submit on negative period
    - ✓ does not submit on zero period
    - ✓ submits on valid loan and period inputs

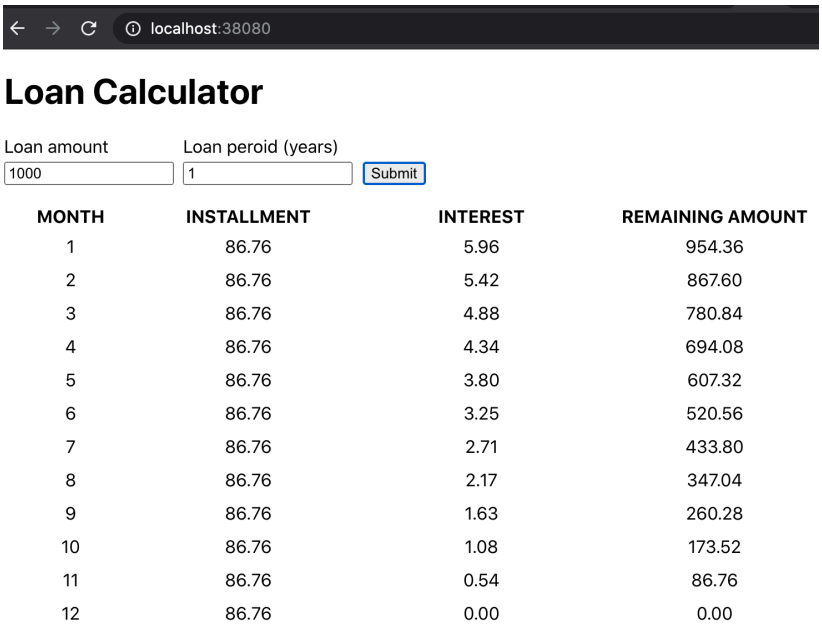
IV.

The requirement has 3.5% as the fixed interest rate. But the current application version assumes 7.5%. Likewise the computation for the interest and remaining amount or balance is incorrect.

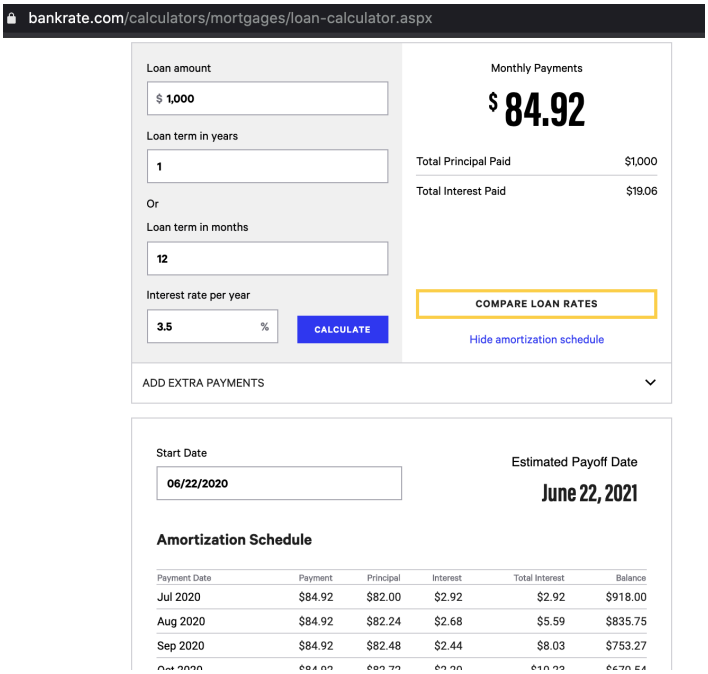
The testing formula was validated against multiple sources of loan calculator found in the internet.

- The Amortization Schedule table
  - Layout
    - ✓ displays the Amortization Schedule table
    - ✓ the table displays 4 columns
    - ✓ column 1 header displays MONTH text
    - ✓ column 2 header displays INSTALLMENT text
    - ✓ column 3 header displays INTEREST text
    - ✗ column 4 header displays REMAINING AMOUNT text
  - Row Data
    - ✓ displays 12 rows for period value = 1
    - ✗ displays INSTALLMENT value of [84.92] for loan amount = [1000], period = [1] and month =[1]
    - ✗ displays INTEREST value of [2.92] for loan amount = [1000], period = [1] and month =[1]
    - ✗ displays REMAINING BALANCE value of [918] for loan amount = [1000], period = [1] and month =[1]

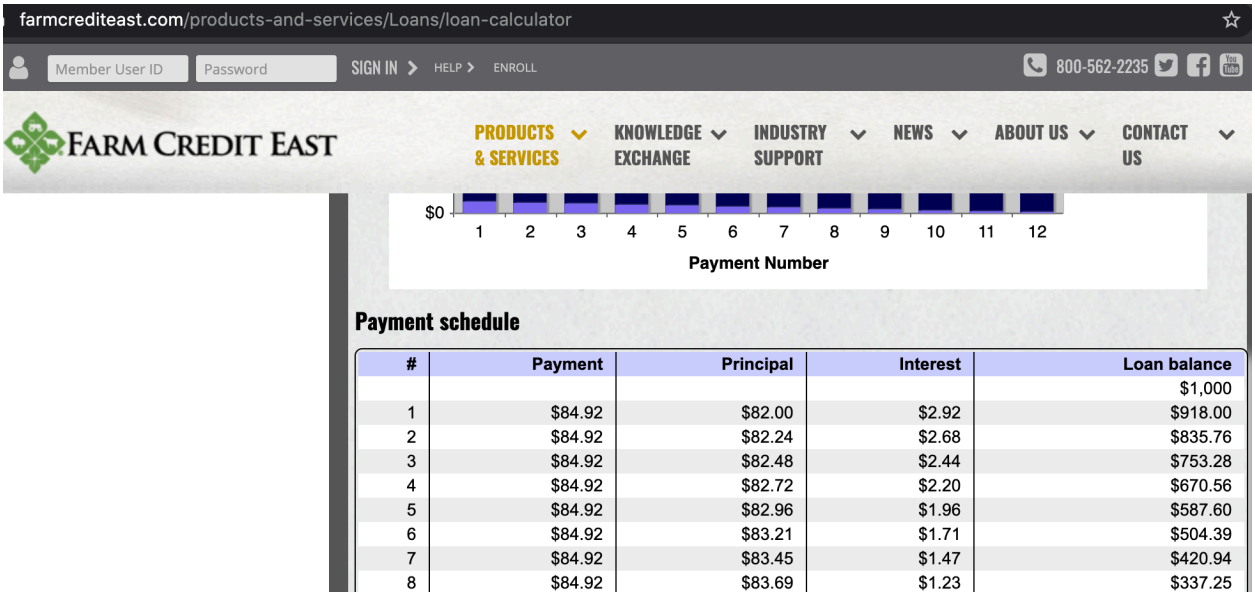
Current Home Loan Application Version result – Assumed the 7.5% fixed interest rate

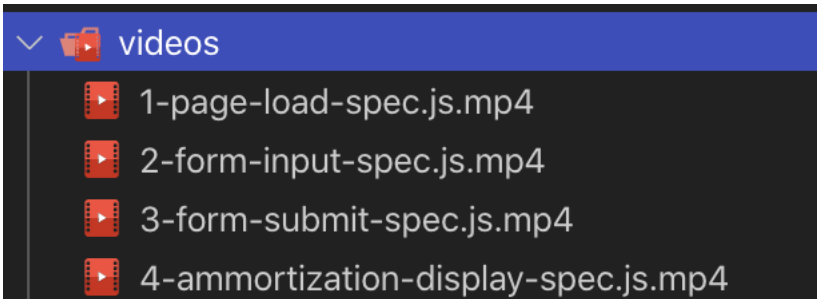


Internet Source 1 - https://www.bankrate.com/calculators/mortgages/loan-calculator.aspx



Internet Source 2 - https://www.farmcrediteast.com/products-and-services/Loans/loan-calculator



V.

Videos created