Using let Variables

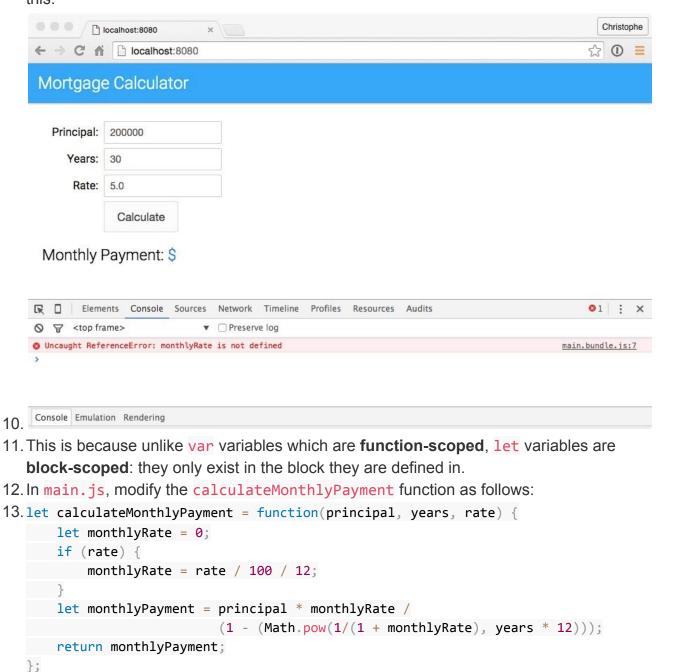
ECMAScript 6 introduces a new keyword to declare variables: let. Unlike variables
declared with var that are function-scoped, variables declared with let are block-scoped:
they only exist in the block they are defined in.

In this unit, you modify the application to use let variables.

Steps

- 1. In your code editor, open js/main.js and examine the calculateMonthlyPayment function:
- 3. Notice that on line 5, the monthlyRate variable is available even though it was declared within the ifblock. This is because variables declared with var are function-scoped, and not block-scoped. This way of declaring and using variables is definitely not a best practice: it is used here to illustrate the difference between function-scoped and block-scoped variables.
- 4. To keep the code simple and readable, the field validation used in this sample application is intentionally simplistic and incomplete.
- 5. Replace all the occurrences of var with let. Don't change anything else yet.
- 6. main.js now includes ECMAScript 6 code and will no longer work in ECMAScript 5 browsers.
- 7. On the command line, type the following command to run the **babel** script and compile main.js to ECMAScript 5:
- 8. npm run babel

Open a browser, access http://localhost:8080, and click the Calculate button: it doesn't work. Open the developer console. You should see a message similar to this:



- 14. On the command line, type the following command to rebuild the application:
- 15. npm run babel
- 16. Open a browser, access http://localhost:8080, and click the **Calculate** button: you should now see the monthly payment.

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