**JavaScript Test Framework**

I have chosen the JavaScript testing framework, Jasmine. Jasmine is an open-source framework for testing programs on any platform JavaScript runs on (Van Hove, & Gravrock, 2022). Jasmine can be used in JavaScript files, script tags, and command line interfaces via node (Bouchefra, 2018).

**Core Features**

Jasmine provides an advantageous testing experience for JavaScript programs with features including:

* An all-in-one library with no additional dependencies
* Node and browser testing
* Testing independent of the DOM
* It is compatible with other programming languages
* An easy-to-use API (Bouchefra, 2018).

**TDD or BDD**

Jasmine is touted as a behavior-driven development framework or BDD (Van Hove, & Gravrock, 2022). As I understand the different development testing practices, BDD generally seeks to test for behavior from the code as opposed to functionality. Jasmine offers an excellent collection of options via suites and specs to provide test cases and several supporting methods such as expectations to ensure the cases are properly tested.

**Developers & Unit Tests**

When a program scales beyond a certain level, meaning the complexity of the application is beyond simple functions and single files, then unit testing should be a requirement for a quality product. Unit testing can:

* + prevent other parts of the code from resulting in bugs since the unit will work as it should
  + Aid in properly refactored code
  + Help reveal errors in code before any major releases (Simpson, 2019).

Developers should write unit tests before developing the code for a particular module. This contributes to the “test-driven development” concept. Writing the tests after development would just be unit testing versus test-driven development.

**References**

Bouchefra, A. (2018, December 13). An introduction to jasmine unit testing. https://www.freecodecamp.org/news/jasmine-unit-testing-tutorial-4e757c2cbf42/

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Van Hove, G., & Gravrock, S. (2022). GitHub—Jasmine/jasmine: Simple JavaScript testing framework for browsers and node.js. Github. https://github.com/jasmine/jasmine