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CO600: JavaScript QA

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Quality Assurance: JavaScript

JSHint with Grunt

We are using JSHint to manage and check our JavaScript. JSHint is open source and available in many formats. We use JSHint with Grunt to check our code from the very beginning of development therefore we have been QA testing our code throughout development. JSHint can be found here: http://jshint.com/.

ngDoc

We will be using ngDoc from Angular to create documentation read-me's for the project. Ngdoc is also contained within Grunt to allow us create doc throughout development. Ngdoc can be found here: https://github.com/angular/angular.js/wiki/Writing-AngularJS-Documentation.

JavaScript Standards

- Variables must use *camelCase.*
- Variables must start with a *letter.*
- Operators (= + - * /) must have *spaces* around them.
- Indentation must be *four spaces* or *one tab.*
- Always end statements with a *semicolon*.
- For readability a line length should be less that 100 characters.
- All JavaScript files must use *.js* file type.
- All .js files must be *lowercase*
- Do not use of *underbars* as the first or last element of a variable name.

- Functions must have the *opening bracket* on the first line
- Functions must have *one space* before the opening bracket.
- Functions must have the *closing bracket* on a new line, without leading spaces.

- Functions must have a *single space* between the word function and the function name.
- Functions must have a *comment header*.
- Comments must be included on all declarative statements.
- *Inline comments* must be used within large blocks of code.
- Functions conditions must use correct === *operators*.

- Objects must have the *opening bracket* on the same line as the object name.
- Objects must use *colon plus one space* between each property and its value.
- Objects must use quotes around *string values,* not around numeric values.
- Objects must not add a comma after the last *property-value pair.*
- Objects must place the closing bracket on a *new line*, without leading spaces.
- Objects must always end an object definition with a *semicolon*.