

# Code Review Strategy

Based off guideline found:

<https://www.evoketechnologies.com/blog/code-review-checklist-perform-effective-code-reviews/>

For each file containing code (excluding HTML, CSS files):

Examine the following for each piece of code that was not written by you:

**Readability** - Do I understand the code?

**Consistency** - Is the code written consistent with the code written by me/everyone else?

**Scalability** - Does the code support extension?

**Reusability** - Is there repeated code that could be refactored?

**Redundancy** - Are there unnecessary lines of code or debug statements left?

## Code Review Summary

<u>Code Type</u>	<u>Function Name</u>	<u>Comments</u>
Node.js Modules	createUser	
Node.js Modules	authenticateUser	Perhaps have a comment to explain what result[0] is so that the code is more readable. -Daniel
Node.js Modules	getUsers	Console.log err should be removed if not needed -Daniel
Node.js Modules	changeUserAccessLevel	It's okay to simply put { id, access_level } using ES6's new syntax sugar -Zhongyang
Node.js Modules	insertRow	Inconsistent use of ` for declaring query string compared to other modules -Daniel

		Actually backticks are required when doing string formation -Zhongyang
Node.js Modules	saveQuery	Should include username in the table, so users won't see preset queries from other users. Documentation is missing example. -Zhongyang
Node.js Modules	retrieveData	Also inconsistent use of ` instead of ' for query string. -Daniel  Be careful with SQL injection attack. Imagine you have a column named "; drop database;" -Zhongyang
JQuery Event Handler	\$(window).on("load")	
JQuery Event Handler	\$("#header").not("#loginHeader").on("click")	
JQuery Event Handler	\$("#button#loginBtn").on("click")	Alerting the successful login might be redundant with the next page as it shows what you are logged in as (but may have to keep the alert for now for acceptance testing purposes) - Jonathan
JQuery Event Handler	\$("#button#logoutBtn").on("click")	
JQuery Event Handler	\$("#button#registerBtn").on("click")	
JQuery Event Handler	// call getUsers \$.ajax({...})	Function generateDropdown can be defined outside to reduce length of the ajax call and for better structure. -Austin  Instead of "Error during getUsers" maybe changing it to "Error retrieving user data" might be more clear to a non-experienced user - Jonathan
JQuery Event Handler	\$("#button#saveButton").on("click")	Commented out code and/or unneeded console log should be removed. -Daniel  Add a brief comment at the top of this handler to keep it consistent with the rest of the handlers - Jonathan

JQuery Event Handler	<code>\$("button#uploadButton").on("click")</code>	<p>Commented out code and/or unneeded console log should be removed. -Daniel</p> <p>Currently only supports excel files, but what about expanding it to .csv as well? -Jonathan</p> <p>Multiple return statements (if doable, stick to one return per function) - Jonathan</p>
Javascript Function	<code>function processExcel(data)</code>	<p>Commented out code and/or unneeded console log should be removed. -Daniel</p> <p>Expand this function or add another one to support .csv (if we deem it necessary and if it doesn't take much time to add) - Jonathan</p>
Javascript Function	<code>function cleanData(data, formType)</code>	<p>Perhaps need a comment explaining why some columns are deleted and not relocated to increase readability. -Daniel</p>
JQuery Event Handler	<code>\$(window).on("load")</code>	<p>Maybe move this to the top of the script since it is run every time the page loads, to improve readability. Could add this to the other <code>\$(window).on("load")</code>. - Michelle</p>
Javascript Function	<code>function setDashboard(userLevel)</code>	<p>There are many if and else if statements. I feel like scalability can be improved with a hashmap. -Austin</p>
JavaScript function	<code>function getKeyByValue(object, value)</code>	<p>Is fat arrow notation compatible with IE? Not sure, needs testing -Zhongyang</p>
agencyData.json		<p>Normally we don't do <code>`agencyData = { blah }`</code>. This makes it JavaScript, not JavaScript Object Notation. -Zhongyang</p>

#### General comments

The "return false;" after the ajax call is inconsistent. Should decide if we need it after all calls or remove. -Daniel

To be consistent, error alerts should start with capital letter and end with period. -Daniel

Currently\_logged\_in column in user table not necessary right now, suggest removing it and adding it back when we add the user story to view currently logged in user list - Jonathan

Some lines of code exceed the suggested 80 character limit in the Google JavaScript Style Guide. To improve readability of code we should try to line-wrap where possible. At the very least we should avoid any lines that exceed the horizontal view on GitHub. - Michelle

It is good that there is consistent use of camel case (except for the database stuff). - Michelle

Keep in mind SOLID, specifically the single responsibility principle, when writing the code. By separating a task into multiple different functions, we make it easier to unit test and we also reduce the size of overloaded functions or event handlers. - Michelle

Should query be a var or const? The functions aren't really consistent with that.-Austin

#### Decisions and changes

- Added additional comments and made console.logs for all errors in user.js
- Made the syntax change to changeUserAccessLevel
- Removed login alert
- Moved function generateDropdown(id) out of ajax call
- Removed commented out code
- Changed alert statements to be more consistent