
Coding Guidelines

for

PC² Web Team Interface

Version 2.0

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Introduction

This document is intended for future developers of the PC² Web Team Interface (WTI). It will describe the coding guidelines used in the development of the WTI. Future developers shall use these guidelines in future development so as to keep the code base consistent, clean, and easy to understand.

WTI UI

Angular

- **General guidelines:**
 - Angular code and application architecture should follow the Angular style guide.
 - <https://angular.io/guide/styleguide>
- **Formatting:**
 - Max line length = 175
 - In the event a lot of function chaining is necessary, put each chained function on a new line.
 - ```
this._httpClient.get('somepage/asdf')
 .takeUntil(this._unsubscribe)
 .subscribe((val: Type) => {
 // ...
 });
```
  - Long arrays/objects should use newlines to make it easier to read.
    - ```
const routes: Route[] = [
    {
        Path: 'asdf',
        redirectTo: '/feature'
    },
    {
        Path: 'qwerty',
        redirectTo: '/anotherfeature'
    },
]
```
- **Naming and Other Considerations:**
 - Variable names are allowed to begin with an underscore (private class-level variables)

- Be mindful of using `any` in TypeScript. It is best to define classes/interfaces to model an object. Embrace type checking where possible!

WTI API

Java

- **Capitalization Conventions:**
 - *Camel Case* will be used for:
 - Variables
 - Parameters
 - Methods
 - *Upper Camel Case* will be used for:
 - Class files
 - Constructors
- **Formatting and Spacing:**
 - *Braces:*
 - No line break before the opening brace.
 - Line break after the opening brace.
 - Line break before the closing brace.
 - Line break after the closing brace if that brace is the end of a statement, method, or class.
 - Braces not necessary for if, else, do, while, etc where body contains single statement.

Swagger

- **General guidelines:**
 - Swagger code should follow the basic structure outlined below
 - <https://swagger.io/docs/specification/2-0/basic-structure>

JavaDoc

- **Formatting:**

- *General Format:*

- ```
/**
 * Javadoc goes here
 * and continues here...
 */
```

```
public int method(String p1) { ... }
```

- *Block Tags:*

- Any tags used in Javadoc (@param, @return, @throws...) should not be left with a blank description.

## Additional Guidelines and References

Please see the following links for more information regarding style:

### Angular

<https://angular.io/guide/styleguide>

### Java/JavaDoc

<https://google.github.io/styleguide/javaguide.html>

### Swagger

<https://github.com/swagger-api/swagger-core/wiki/Coding-Standards>