Style Guide

JavaScript Styling

Our ESlint configuration file defines standard styles for the project. The configuration file is extended from AirBnB's standard Eslint configuration, with some of our own modifications.

If styling problems exist, the linter throws either an error or warning depending on the severity.

Significant JavaScript style rules (see *.eslintrc.json* for explicit linting rules):
- Indent using 2 spaces
- Use *const* for defining constant or mutable variables, use *let* otherwise (no use of *var*)
- No trailing spaces
- Each file must contain an extra newline at the bottom
- Always end each line of a multiline objects/arrays/function-parameters with a comma
- Use ES6 imports over CommonJS imports whenever possible
- Capitalize constant immutable variables, camelCase everything else
- Prefer triple-equals over double-equals
- Use arrow functions by default, except when you need to access *this* from a regular function
- Regular functions must always be named

Pug Styling

Pug is an HTML templating language (compiles *.pug* files to *.html*). Indentation errors in *.pug* files prevent the file from compiling, so indentation and spacing is always consistent.

Significant Pug styles rules
- Do not write *div*, unless the *div* does not have any attributes
- Tags with more than 2 attributes should be written on multiple lines

CSS Styling

Bulma is a CSS framework that uses Sass and comes with predefined components. As a framework, Bulma handles all responsive styling and page layout, with global Sass configuration variables.

Significant HTML/CSS style rules
- Whenever possible, use Bulma components and classes
- Only change Bulma style variables when they are applicable to the whole site

File Structure

```
.
|-- src/ - source of page assets (js, css, templates)
|-- +-- assets/ - static images, fonts, etc.
|-- +-- templates/ - small Pug templates inserted by jQuery
|-- +-- styles/ - css/scss files
|-- +-- [page].js - these js files will run on their corresponding page: index, play, edit
|-- +-- [js utilities folders]/ - other javaScript helper files
|-- views/ Pug files
|-- +-- templates/ - small templates that can be shared between pages
|-- +-- [page].pug - template for each page
|-- server/ - source of server js
|-- +-- index.js - starts node/express server
|-- +-- [other server files]
```