

# Style Guide

## File and Folder Structure

MoCode

```
|-- .firebase/
|   |-- hosting.cache
|-- Final Submission Docs/
|   |-- Design Document.pdf
|   |-- MoCode Documentation.pdf
|   |-- Release Plan.pdf
|   |-- Release Summary.pdf
|   |-- Sprint 1 Plan.pdf
|   |-- Sprint 1 Report.pdf
|   |-- Sprint 2 Plan.pdf
|   |-- Sprint 2 Report.pdf
|   |-- Sprint 3 Plan.pdf
|   |-- Sprint 3 Report.pdf
|   |-- Sprint 4 Plan.pdf
|   |-- Sprint 4 Report.pdf
|   |-- Style Guide.pdf
|   |-- Team Agreement.pdf
|   |-- Test Plan and Report.pdf
|   |-- User Guide.pdf
|-- nodes_modules/
|-- public/
|   |-- 404.html
|   |-- favicon.ico
|   |-- index.html
|   |-- manifest.json
|   |-- robots.txt
|-- src/
|   |-- components/
|       |-- MyComponent/
|           |-- ConfirmStatus.css
|           |-- ConfirmStatus.js
|           |-- Footer.css
|           |-- Footer.js
|           |-- NavBar.css
|           |-- NavBar.js
|           |-- NewUserInfo.css
|           |-- NewUserInfo.js
|           |-- ProblemHistory.css
|           |-- ProblemHistory.js
|           |-- ProblemRec.css
```

```

|         |         |-- ProblemRec.js
|         |         |-- SignIn.css
|         |         |-- SignIn.js
|         |         |-- Stats.css
|         |         |-- Stats.js
|         |         |-- Timer.css
|         |         |-- Timer.js
|         |-- extra/
|         |         |-- profile_files/
|         |         |         |-- bundle.js
|         |         |         |-- js
|         |         |         |-- profile_icon.svg
|         |         |-- svgs and images
|         |-- pages/
|         |         |-- HomePage/
|         |         |         |-- Home.js
|         |         |         |-- Home.css
|         |         |         |-- Profile.js
|         |         |         |-- Profile.css
|         |-- App.css
|         |-- App.test.js
|         |-- AuthContext.js
|         |-- firebase.js
|         |-- index.css
|         |-- index.js
|         |-- problem.json
|         |-- reportWebVitals.js
|         |-- scraper.py
|         |-- setupTests.js
|         |-- Signin.test.js
|-- .firebaserc
|-- .gitignore
|-- firebase.json
|-- LICENSE
|-- package-lock.json
|-- package.json
|-- README.md

```

- With the way our files and folders are structured, we created a “pages” folder for the different pages that are present such as the Home and Profile pages
- There is another folder for components that focuses on making sure that the different components are divided up and easily accessible to use.
- There is an “extra” folder that provides resources for the other code such as images and more
- All unit tests are in `src/`

## Naming Conventions

- Use PascalCase for component names
  - Make sure the names are specific to what the function does
- Use camelCase for variable and function names.

## Component Structure

- Use functional components by default.
- Use arrow functions for component declarations.

```
// Functional Component
const MyComponent = () => {
  // ...
};
```

Here is an example of how we formatted the functional components:

```
const handleRecommendClick = async () => {
  // ...
}
```

With the function names and more, we used our naming conventions and focused on making sure that it followed the formatting conventions.

## Spacing

- Four space indentation
- One space before and after operators
- One space after commas

## Comments

- Provide comments for complex logic or non-trivial code.
- Keep comments up-to-date to reflect code changes.
- Keep comments focusing on what the code does
  - Easier for future coders to understand the code