

Code Review

The purpose of this document is to summarize how our code is organized in the proper file structure. Our code and file structure can be viewed on our project Github under the code folder.

Github Link: <https://github.com/ayonoaduo/BEEJ-Project>

General

I. Does the code work?

Yes, the entire project compiles and works as intended.

II. Is all the code easily understood?

Yes, the code is easy to understand and well commented. It also has an easy to understand naming convention as well as a well organized file structure.

III. Does it conform to your agreed coding conventions?

Yes, it conforms to the BEM (Block Element Modifier) naming convention.

IV. Is there any redundant or duplicate code?

We tried to adhere to the DRY principle as much as possible.

V. Is the code as modular as possible?

Yes, it is, all app components are independent of one another.

VI. Can any global variables be replaced?

We don't have any specific global variable. We used states and passed their values between functions.

VII. Is there any commented out code?

No, all commented out code was removed after refactoring.

VIII. Do loops have a set length and correct termination conditions?

In order to avoid infinite and nested loops, all loops in the application iterate over an object or a specified condition.

IX. Do the names used in the program convey intent?

All functions, states, files, and folders are named properly to convey their intent.

Performance

I. Are there any obvious optimizations that will improve performance?

There are no obvious optimizations at the moment.

II. Can any of the code be replaced with the library or built-in functions?

We've tried to use as many built-in functions as possible e.g. Firebase's built-in function for user authentication (sign up, sign in, reset password, verify email).

We also used material-ui's library to provide us with icons and buttons.

III. Can any logging or debugging code be removed?

All debugging code has been removed as we used them mostly for quick checks.

Some logging code still exists in the code and can be easily removed.

Security

I. Are all data inputs checked and encoded?

Yes, data inputs were checked on pages where necessary such as the sign-in page and sign-up page.

II. Where third-party utilities are used, are returning errors being caught?

All third-party utilities implemented have corresponding catch statements to handle any errors that may arise.

III. Are output values checked and encoded?

Output values do not need to be checked as all output is directly from Firebase.

IV. Are invalid parameter values handled?

Yes, invalid parameter values are handled.

Documentation

I. Do comments exist and describe the intent of the code?

Yes, the code contains a sufficient amount of comments that will help other users understand the intent of each step.

II. Are all functions commented?

Yes, each function has a brief description of what it does at the top

III. Is any unusual behavior or edge-case handling described?

There is currently no unusual behavior/edge-case handling present in our code as we tried as much as possible to make no exceptions to any rules.

IV. Is the use and function of a third-party libraries document

Yes, all third-party libraries that are used are documented.

V. Is there any incomplete code? If so, should it be removed or flagged with a suitable marker like 'TODO'?

There is no incomplete code present in our app.

Testing

I. Is the code testable?

Yes, this code is testable. This is because each task is broken down into components, which will make testing easier.

II. Do tests exist, and are they comprehensive?

We do not have tests in our code. Most tests were performed using deployed builds of our app on both laptops/desktops and mobile devices.

III. Do unit tests actually test that the code is performing the intended functionality?

There is no unit test present in our code. Instead, we performed unit testing on devices manually.

IV. Could any test code be replaced with the use of an existing API?

No, because we have no test code present.