

Frontend

Versions:

Version ID	Date	Changes
1.0	24/09/2020	Initialized the document with the frontend architecture

Frontend Architecture

Since React is only responsible for the view layer of an application, it does not enforce any specific architecture, such as MVC or MVVM.

Hence, our team has decided to follow the prescribed architecture handed over to us from the previous teams, which uses a fairly straightforward file structure, seen below.

Directory Structure

```
.
Dockerfile                # Multi-stage Nginx build Dockerfile
__mocks__                 # Test mocks
nginx                     # Nginx configuration files
package.json              # Dependencies and scripts
package-lock.json
README.md
src
  assets                  # PNG files for website
  components              # React UI components
  css                     # CSS files
  index.css
  index.html
  index.js                # Client application endpoint
  pages                   # React UI Pages
  server                  # Express.js server
  setupTests.js           # Tests setup
  store                   # Easy Peasy application store
  utils                   # Product live search module
__test__                  # Unit and integration tests
  components
  pages
webpack.base.conf.js
webpack.dev.conf.js
webpack.prod.conf.js
webpack.server.conf.js
yarn.lock
```

React Project

As can be discerned from the directory and file tree, the frontend subsystem uses a fairly typical React project pattern, having a *components* directory for React components, and a *pages* directory for pages that are composed of said components.

Additionally, there is an *assets* folder to store static assets including images, and a *css* directory to store CSS files.

Testing

The frontend tests are placed within the `__tests__` directory, and the mocks are placed in the `__mocks__` directory.