# Directory Structure

The .js files for the primary CLI usage and event log handling are located in the root directory, as well as the file for the web portal server.

The *views/* subdirectory contains .html and .ejs files which are used to generate express responses. There is also a *resources/* subdirectory which contains supplementary files sent to the web client. In our case, it simply contains a .css file used to style all pages in the web portal.

The *commands/* directory contains the modules for each of the commands the command line can execute. The web server also makes use of the tokenBit module when handling portal requests.

The *logs/* directory will be created as the CLI is used and will contain logs of each CLI command given by the user.

# CLI Overview

The CLI is accessed by running the ./bitbase.js file using Node. It will then execute a required module from the *commands/* directory based on the command entered. All init \* commands are implemented with initBit, all token \* commands are implemented with tokenBit, and all config \* commands are implemented with configBit. Additionally, the helpText.js module exports string constants containing various --help messages.

Init –all will create the logs directory, as well as the help.txt, config.json, and users.json file.

The token commands are used to create and search for user tokens. User tokens have an expiry date of three days – when an expired token is looked up, it will be deleted from users.json. When attempting to create a token which already exists, that token will be replaced if it has expired.

# Web Portal Overview

The express server handles the /, /resources/style.css, /new, and /fetch routes. The first two respond with static files, while the second two are handled by running tokenBit functions on the server side, and rendering .ejs files based on the result.

Finally, if a request matches none of the known routes, a static 404 page is sent.

For this express server we made use of ejs and the built-in urlencoded middleware.

# Usage

First, copy the contents of this repository to a local directory. From a terminal inside the root directory, run **npm install** to install the required node packages, and then run CLI commands with **node ./bitbase.js**.

The web portal server can be launched with **node ./server.js**. When the server is running, you can reach the portal at <http://localhost:3000>