

# HI-ER Readme

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This code is used for the <https://er.pumps.org/> website.

## Getting the Application

The application consists of many folders and files. In order to allow multiple people to work on the HI-ER content, and for continued application development, the HI-ER is managed through a [git](#) repository. [git](#) is a platform that allows for very powerful version control - it tracks changes and allows you to "commit" them and "push" your changes to a central repository so others can always see the latest work.

Git needs to be installed on your machine. You can download it [here](#)

We will not be using many features of [git](#), and since the number of people editing the HI-ER content will be somewhat limited, it will be rare for you to need any advanced knowledge of how git works.

The initial step is to create a Github account - this website is the central repository for the HI-ER, and it is a private repository - you will need to be granted access before moving forward. Create your account [here](#), and contact me ([sfrees@intelliquip.com](mailto:sfrees@intelliquip.com)) for access.

Once you have access, open the Command Prompt and use the `cd` command to navigate to the directory you want to put the HI-ER application in. For example, create a directory called `C:\projects\`, and navigate the command prompt there by entering `cd C:\projects` at the command prompt.

Next, clone the repository with the following command:

```
git clone https://github.com/edlpumps/hi-er.git
```

This will create a directory called `hi-er` under your `C:\projects` directory.

Later, as you begin to make changes to the HI-ER, you will need to use [git](#) to commit your changes. The details of this is covered below in the "Version control with [git](#)" section.

## Text Editor - Visual Studio Code

While any text editor is suitable for creating the HI-ER content, you should use something geared towards programming, to avoid character encoding problems. You may download and install this [here](#).

Once installed, you can open the `hi-er` directory.

Visual Studio Code allows you to open a folder - `hi-er` - which is the most efficient way of working. This will give you a side panel on the left side of the screen that you can use to navigate and open any file in the directory structure.

## Running code Locally

Initialize Node JS and NPM in your Development environment

Follow instructions at: <https://code.visualstudio.com/docs/nodejs/nodejs-tutorial>

Additional information can be found at: <https://developer.ibm.com/tutorials/learn-nodejs-installing-node-nvm-and-vscode/>

Confirm npm is installed

```
$> npm --help
```

Confirm node.js is installed

```
$> node --version
```

Just one time, install the modules for your development environment:

In your VSC app and in a **powershell** terminal window:

```
$> npm init
$> npm install
$> npm audit fix <== if needed
```

## Local Database

You must be connected to a local Mongoose database install MongoDB install MongoDB Compass create .env with:

- MONGO\_CONNECTION\_DATA = mongodb://127.0.0.1:27017/er
- ADMIN\_PASSWORD\_OVERRIDE=test

You will need to have your user information in the database.

If MongoDB Compass is running but it won't connect to the local database:

- Open Task Manager
- Click on the Services tab
- Make sure MongoDB Server is running

## Local Preview - Debugging

The easiest way to do your development is to execute the following command from the root project directory in a Terminal window:

```
$> node index.js
```

OR to set breakpoints and debug:

```
Open index.js file in VSC
Click on the Debug icon on the left
Select Launch Program
Step through code
Use the debug toolbar to step into/over code
Use the debug toolbar to restart the code and stop execution
```

To monitor for code changes while running index.js, install **supervisor**:

```
$>npm init
$>npm install
$>npm -g install supervisor
```

Then run the code using **supervisor**:

```
$>supervisor index.js
```

Connect to the localhost on port:

```
http://127.0.0.1:3003
```

## Deploying a GitHub branch to Heroku

First, push the branch to GitHub and create a Pull Request.

Login to Heroku using the **higladetech@gmail.com** account on a browser:

```
https://heroku.com
Select the "intelliquip-hi/hi-er-beta" project (make sure that it is NOT in
Maintenance mode in the Settings)
Select Deploy
Select Deploy a GitHub branch and enter the branch name
```

## Deploying GitHub Master branch to Heroku

Make sure all branches are merged to **master** on GitHub.

Follow the steps above to Deploy a GitHub branch to Heroku, but instead, select the **intelliquip-hi/hi-er** project and deploy the **master** branch.

## PNG to URI

- If you add an image to the Energy Ratings label, you need to convert the image to URI content.
- Use an online converter like <https://site24x7.com/tools/image-to-datauri.html>
- Upload the image (PNG, JPEG, whatever) to the tool which generates the URI code.
- Copy the content and paste into a file (no extension) in the views/svg folder
- Pass that link into the SVG generator code for generating the label.

## Generate README.PDF

- Make sure the **Markdown PDF** extension is installed on Visual Studio Code (Author yzane).
- Open the README.md file
- Press the 'F1' key
- Select the **Markdown PDF** extension (or search for it). The README.pdf file will automatically be generated.