Setting up the server environment.

Note: The following instructions are targeted for Linux and macOS environments. If you are using a Windows environment, adjust the CLI commands accordingly.

Prerequisites:

- 1. Docker
 - a. To install docker, go to https://docs.docker.com/install/ and choose the appropriate installation instructions.
 - b. Select the Community Edition.
- 2. Node and npm
 - a. Go to https://docs.npmjs.com/downloading-and-installing-node-js-and-npm and follow the instructions for your environment.
 - b. It is also recommended to install NVM which can be found on the same page. NVM is for managing node versions.
- 3. Git
 - a. Go to https://git-scm.com/downloads and follow the instructions for installing git in your environment.

Clone:

1. Open a terminal in you preferred directory, such as home.

cd ~

2. Clone the repository:

git clone https://github.com/kenbonilla/irondb.git

Automatically install and launch containers:

Note: This automatic method assumes you are running Linux or macOS. If you are using Windows, follow the instructions for running manually.

1. Open the root directory:

cd ~/irondb

2. (Optional - do this if the next step does not work) Set permissions:

chmod a+x iron.sh

3. Run the setup script:

./iron.sh

You will be given several options.

1 - Install dependencies, build the containers, and launch

This should be run the first time you are launching IronDB or in case of wanting to rebuild all dependencies and containers.

2 - Rebuild containers and launch

Rebuild the containers but do not reinstall dependencies.

3 - Launch pre-built containers

Perform a normal launch of the containers that have been built prior.

4 - Stop the containers

Performs the docker-compose down command

9 - Stop and Remove ALL containers

If performing a fresh install (1) does not correct the issues, do this and then try a fresh install again.

x - Exit the program

```
/iron.sh /iron.sh 80x10
(base) ken@monolith:~/irondb(us179○) » ./iron.sh
1 - Install dependencies, build the containers, and launch
2 - Rebuild containers and launch
3 - Launch pre-built containers
4 - Stop the containers
9 - Stop and Remove ALL containers
x - Exit the program
Enter selection :
```

4. Go to your browser and navigate to http://localhost:3001/. This should bring you to the landing page.

Manually install and launch the containers:

1. Enter the root directory:

```
cd ~/irondb
```

2. Install the npm dependencies:

```
npm install
sudo npm install -g gulp-cli
sudo npm install -g jest-cli
gulp sass
gulp js
```

3. **Warning!** This will delete the local copy of the postgres database, backup important files before continuing. If the root directory has a folder name **pg-data** then:

```
sudo rm -rf pg-data
```

4. Make the postgres folder:

```
mkdir pg-data
```

5. Remove previous files and directories:

```
sudo rm -rf pg-data
sudo rm -rf node-modules
```

sudo rm -rf rabbitmq/data/.erlang.cookie

- 6. Build and launch the containers: docker-compose up --build -d
 The --build flag is important for ensuring that you are not trying to run an outdated container.
 - The -d flag is for running the containers in a detached state.
- 7. Navigate to http://localhost:3001/ which will take you to the landing page.

Shutdown procedures:

Open the controller application ./iron.sh and then select 4.

OR

Enter the command docker-compose down

Restart the server:

To restart the server using pre-built containers, open the controller application: ./iron.sh and then select 3.

--- OR ---

To rebuild the containers before restarting the server, open the controller application: ./iron.sh and then select 2.

In case of docker errors:

Note: When docker is shut down improperly, it may result in errors launching containers in the future. Attempt this before launch in case of docker errors.

Open the controller application ./iron.sh and then select 9. Reopen ./iron.sh and select 1.

--- OR ---

If using Windows, instead of ./iron.sh do this before following the instructions to manually build and run containers.

```
docker-compose down
docker stop $(docker ps -aq)
docker rm $(docker ps -aq)
```