# Welcome to the Frontend Contributing Guide!

Before contributing, please read the [code of conduct](https://github.com/HospitalRun/hospitalrun/blob/master/.github/CODE\_OF\_CONDUCT.md).

## 1. Check out the [HospitalRun General Contributing Guide](https://github.com/HospitalRun/hospitalrun/blob/master/.github/CONTRIBUTING.md) for how to:

1. Browse Issues

2. Get Assigned an Issue

3. Fork the Repository and Create a Branch

4. Commit Changes

5. Submit a Pull Request

## 2. After creating a local fork (step 3 above), follow these steps to configure CouchDB

CouchDB is the server side database which data from the frontend will sync from and to. CouchDB is required to login

to HospitalRun. You could install and run CouchDB in any way you wish. For convienence, we have added a docker compose file in the

root of this project to launch CouchDB. Below are the steps:

1. Start [Docker](https://docs.docker.com/get-docker/). Install it if you don't have it yet.

2. Install [Docker Compose](https://docs.docker.com/compose/install/) if you don't have it yet.

3. Run `docker-compose up --build -d` in the root directory.

This should launch a new CouchDB instance on `http://localhost:5984`, create system database, configure CouchDB as Single Node, enable CORS, create `hospitalrun` database, create a default admin with a username of `admin` and password of 'password', create a sample user with a username of `username` and password of 'password' to use new login page [#2137](https://github.com/HospitalRun/hospitalrun-frontend/pull/2137).

Go to `http://localhost:5984/\_utils` in your browser to view Fauxton and perform administrative tasks.

\*\*\_Cleanup\_\*\*

To delete the development database, go to the root of the project and run `docker-compose down -v --rmi all --remove-orphans`

### Install dependencies & start the application

1. Install dependencies: `npm install`

2. Configure `REACT\_APP\_HOSPITALRUN\_API=http://localhost:5984` environment variable in `.env`

3. Run the application `npm start`

## 3. Start the application

```

npm install

npm run start

```

Open a file named `.env` and add a line `REACT\_APP\_HOSPITALRUN\_API=http://localhost:5984` if you don't have it yet.

\_Note: To delete the development database, go to the root of the project and run `docker-compose down -v --rmi all --remove-orphans`\_

If your branch's packages changed, reinstall the packages before starting the application:

```

rm -fr node\_modules

rm yarn.lock (if you used yarn before)

rm package-lock.json

npm install

npm run start

```

\_Note: We no longer support the use of yarn.\_

## 4. Before pushing your changes, check locally that your branch passes CI checks

### We use Jest + Enzyme for Behavior-Driven Development Tests

`npm run test:ci` will run the entire test suite

`npm run test:ci <file name>` e.g. `npm run test:ci src/\_\_tests\_\_/HospitalRun.test.tsx` will run that specific test file

`npm run test` will run the test suite in watch mode

### We use ESLint for static program analysis

`npm run lint` will run the linter

`npm run lint:fix` will run the linter and fix fixable errors

## 5. Get familiar with documentation

- For a list of i18n language codes, see [this](https://github.com/HospitalRun/hospitalrun-frontend/tree/master/src/locales/README.md).

## [ Extra ] Resources to help get you ramped up on the tech stack!

### React

- [React Tutorial for Beginners by

Programming with Mosh](https://www.youtube.com/watch?v=Ke90Tje7VS0)

- [Chrome React Developer Tools](https://chrome.google.com/webstore/detail/react-developer-tools/fmkadmapgofadopljbjfkapdkoienihi?hl=en)

- [VSCode React Extension Pack](https://marketplace.visualstudio.com/items?itemName=jawandarajbir.react-vscode-extension-pack)

### Redux

- [Redux For Beginners | React Redux Tutorial by DevEd](https://youtu.be/CVpUuw9XSjY)

- [Chrome Redux Developer Tools](https://chrome.google.com/webstore/detail/redux-devtools/lmhkpmbekcpmknklioeibfkpmmfibljd?hl=en)

### PouchDB

- [Getting started with PouchDB and CouchDB (tutorial) by Nolan Lawson](https://youtu.be/-Z7UF2TuSp0)

### Enzyme

- [Enzyme Cheatsheet by @rstacruz](https://devhints.io/enzyme)