

# Deployment Manual

## Key Installations

Please ensure you have installed Java and NPM for Spring Boot and React respectively. Please ensure you download PostgreSQL for the database.

## Downloading the Files

The project source code is available at <https://github.com/Robsterbobster/backend>. Here, you can download the code as a zip file from the code button. You can also clone this repository into a folder of your choice.

The frontend code alone is available at <https://github.com/Robsterbobster/FrontEnd>. This is only necessary for deployment of the frontend on a separate server.

## Downloading and setting up PostgreSQL

The solution uses PostgreSQL for its database. Install PostgreSQL for your machine's operating system: <https://www.postgresql.org/download/>

Please open your machine's terminal, and type the appropriate command for the PostgreSQL terminal. On most systems, you should type:

```
psql -U postgres
```



```
target % psql -U postgres
psql (14.2, server 14.1)
Type "help" for help.

postgres=#
```

First we need to give the user postgres the password 123. Type the following command:

```
ALTER USER postgres WITH PASSWORD '123';
```

Now we need to create the table called usergroup

```
CREATE DATABASE usergroup;
```

Then give privileges to postgres.

```
GRANT CONNECT ON DATABASE usergroup TO postgres;
```

The database should now be set up. Ensure PostgreSQL is running when you continue to deploy the solution.

## Deployment

In the project root folder backend, change directory into target. Then, simply run:

```
java -jar demo-0.0.1-SNAPSHOT.jar
```

At localhost:8080, you will be able to access the login page and use the system. The process ends when the command is terminated

As this jar is executable, it is possible for you to run as a service on Unix based systems. This link from Spring Boot provides more detail on this

<https://docs.spring.io/spring-boot/docs/current/reference/html/deployment.html#deployment.installing.nix-services.init-d.securig>.

### If you want to run the client separately from the server (optional):

1) From the root folder backend, change directory into src/main/FrontEnd. You may also pull the code from <https://github.com/Robsterbobster/FrontEnd> and start from the root folder, FrontEnd.

Now, run the command below to install all node packages:

```
npm install
```

After that that. You can run:

```
npm run start
```

This runs the code in a development environment, using your local computer as a server at localhost:3000.