

Step-by-Step Guide - ProcureHub

This guide explains how to set up and run the ProcureHub project on your local machine from scratch.

1) Install Node.js v20.12.2

Node.js is required to run the backend (Node.js/Express) and frontend (React) applications.

Instructions:

- Go to the official Node.js website: <https://nodejs.org/en/download>
- Click on the **"Previous Releases"** section
- Download and install version **v20.12.2** for your operating system (Windows, macOS, Linux)
- During installation, make sure to check the box that says **"Add to PATH"**
- After installation, open your terminal and check the version:

```
node -v
```

```
npm -v
```

You should see an output similar to this:

```
v20.12.2
```

```
10.5.0
```

2) Install PostgreSQL

Install PostgreSQL on your machine and setup pgAdmin

Instructions:

- Go to [this website](#) and download the appropriate version of PostgreSQL for your device
 - Follow the download wizard instructions and make sure to **remember your password**
 - Create a database inside pgAdmin 4 - name of the database is optional but make sure to **remember the name you set**
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3) Clone the Backend and Frontend Repositories

Clone both repositories from GitHub into a local directory.

Instructions:

Open your terminal and run:

```
git clone https://github.com/Procure-Hub-Org/procure-hub-be.git
git clone https://github.com/Procure-Hub-Org/procure-hub-fe.git
```

This will create two folders:

- procure-hub-be (backend)
 - procure-hub-fe (frontend)
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4) Run npm install in Both Repositories

This command installs all required packages (defined in `package.json`) for both the backend and frontend.

Instructions:

```
cd procure-hub-be
npm install
```

```
cd ../procure-hub-fe
npm install
```

You should see a `node_modules` folder created in each project. This means all dependencies are successfully installed.

5) Copy .env.example to .env and Configure It

Environment variables are used to define database credentials, ports, secrets and other values that are dependent on the running environment.

Instructions:

In the **procure-hub-be** folder, run:

```
cp .env.example .env
```

Then open the .env file in a text editor (like VS Code), and fill in the values. Example:

Required variables:

1. Database:

```
DB_HOST=127.0.0.1      # database host
DB_PORT=5432           # database port (5432-postgres default)
DB_NAME=step_2_name    # database name
DB_USER=postgres       # database user
DB_PASS=step_2_password # database password
```

Make sure the values match your local PostgreSQL setup.

2. Frontend application

```
FRONTEND_URL=http://localhost:5173 # url on which your frontend
application is running (http://localhost:5173 is for local react
environment)
```

Optional variables (without these variables the application will work, but without some functionalities):

1. For sending email notifications:

```
EMAIL_USER=your_email_address
EMAIL_PASS=your_email_password
```

2. For storing files on supabase bucket:

```
SUPABASE_URL=your_project_url
SUPABASE_SECRET_KEY=your_supabase_secret_key
SUPABASE_BUCKET_NAME=your_supabase_bucket_name
```

These values can typically be found by opening your supabase project and going to **Project Settings -> Configuration -> Data API** ([more about supabase buckets](#))

3. In-application caching for faster retrieval during live auctions and data from database generally:

REDIS_URL=your_redis_url ([more about local redis setup](#))

In the **procure-hub-fe** folder, run:

```
cp .env.example .env
```

Then open the .env file in a text editor (like VS Code), and fill in the required values. Example:

```
VITE_API_URL=http://localhost:3000      # url on which your backend  
application is running  
VITE_WEBSOCKET_URL=ws://localhost:3000 # for websocket communication
```

6) Run Migrations: **npx sequelize-cli db:migrate**

This creates the database tables according to Sequelize models. Make sure pgAdmin is running in background.

Instructions:

```
cd procure-hub-be  
npx sequelize-cli db:migrate
```

If successful, you'll see a list of applied migrations in the terminal. You can confirm the tables exist using **pgAdmin**.

7) Run Seeders: **npx sequelize-cli db:seed:all**

Populate the database with sample data (e.g. categories) from your backend project folder.

Instructions:

```
npx sequelize-cli db:seed:all
```

8) Create Admin User: `npm run add-admin`

The app does not have a default admin. You must manually create one using CLI in your backend project folder.

Instructions:

```
npm run add-admin
```

The terminal will prompt you to enter:

- Admin email
- Password
- First and Last Name

This data is stored securely in the database. Using these credentials, you will be able to login in on the page.

9) Start Backend: `node index.js`

Now that the backend is configured and the database is ready, start the backend server.

Instructions:

```
node index.js
```

If everything is set up correctly, you'll see something like:

```
Server running on port 3000
```

Keep this terminal open and running.

10) Start Frontend: `npm run dev`

Open a new terminal window or tab and start the frontend React app from your frontend project folder.

Instructions:

```
cd procure-hub-fe  
npm run dev
```

This will start the application at `http://localhost:5173` by default.

If the backend is also running, the frontend will be able to fetch data and you'll see the landing page.

11) Open the App in Your Browser

Navigate to:

`http://localhost:5173`

You can now:

- Register as a buyer or seller
 - Log in with your admin credentials
 - Interact with the system like in production
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Final Notes

- Make sure PostgreSQL is running locally.
- Make sure all required environment variables are populated with correct values
- Ports used:
 - Backend: typically 3000
 - Frontend: Vite default 5173
- If ports are occupied, update them in `.env` and `vite.config.js`