POS OS - SETUP GUIDE

This setup guide is for setting up the application in a local development setup. You can host this application on almost any cloud hosting like AWS, GCP, AZURE, DigitalOcean, Heroku, Netlify, Vercel, Render Cpanel, etc.

The setup process varies with different OS and hosting providers but the basic steps are the same. So the local environment setup will help to set up the application on other hosting and any OS also.

This application comprises 3 parts: <u>frontend React.js app</u>, <u>backend Express.js app</u>, and <u>PostgreSQL database</u>. You have to set up 3 parts explicitly. Here is the setup guide for each *part.*

IMPORTANT NOTE: Follow the steps sequentially otherwise the application may not work properly.

Pre-requisites:

1. Download and Install the LTS version (Current LTS version is 16.18.0) of the Node.js runtime environment from the official website here

    If you face any difficulties here is an excellent tutorial to install Node.js:

    https://www.geeksforgeeks.org/installation-of-node-js-on-windows/

2. Download and Install the PostgreSQL database from the official website here

    If face any difficulties here is a very good tutorial to install PostgreSQL:

    https://www.geeksforgeeks.org/install-postgresql-on-windows/

3. Type command: npm install --global yarn

    It will install yarn package manager globally on your machine if not been installed before.

    Without installing Node.js you can't use the npm command. So be sure that Node.js has been installed properly.

STEP 1

Database - PostgreSQL

1. At the time of installation keep a note about the database username, password, and port number.
2. After installing PostgreSQL you have to create a database. To create a database open psql command shell and type: CREATE DATABASE dbname;

   Here is a good tutorial to create a database:
   https://www.tutorialspoint.com/postgresql/postgresql_create_database.htm

3. Keep remembering your database username, password, port, and created database name. It'll be needed later in the backend to set up the environmental variable in .env file.

STEP 2

Backend - Express/Node.js

1. Navigate into the backend folder 'POS_OS_Backend' from your command prompt/terminal.
2. Type command: yarn

   It will install all the required libraries and packages required for the backend. Keep patience, it'll take some time. If you see any warning running yarn then you have to activate the script to run the yarn command in your machine. Or you can use the npm install command instead.

   Without installing Node.js you can't use the yarn command. So be sure that Node.js has been installed correctly before you use your terminal.

3. You will find a .env file in the root directory of the backend 'POS_OS_Backend' and set appropriate values for all the variables. To do this you have to edit the .env file and change all the variables accordingly. The .env file will look like this below:

   JWT_SECRET = #type your secret word here#

       Example: JWT_SECRET = my-secret

   DATABASE_URL= # type your database information here. see below example#

       Example: DATABASE_URL=postgresql://postgres:admin@localhost:5432/pos

   #DATABASE_URL=postgresql://username:password@localhost:port/database_name#

For Image Host

HOST = http://localhost

runnig environment

NODE_ENV = development

4. Type command: npx prisma migrate dev

   It will create the required database table and data in the PostgreSQL database that you have installed previously. Your admin and login data will be generated in this step.

   (If the seed command doesn't run automatically then please run the below command. Otherwise, admin data will not populate in the database and thus you can't log in using admin credentials)

   Command: npx prisma db pull

5. Type command: yarn start

   It will start the backend server on http://localhost:5000/

STEP 3

Frontend - React.js

1. Navigate to the frontend folder 'POS_OS_Frontend' from your command prompt/Terminal.
2. Type command: yarn

   It will install all the required libraries and packages required for the frontend. Keep patience, it'll take some time.

   After installing all the packages you may see some warnings. You just ignore that and proceed to the next step. These issues are a well-known issue and not a problem because it is related to some package that was used during development time. These issues have nothing to do with our main application.

3. You will find a .env file in the root directory of the frontend and set the variable REACT_APP_API = http://localhost:5000/v1/
4. Type in your terminal command: yarn start

It will start the frontend server on http://localhost:3000/

Now go to your browser and type http://localhost:3000/ in your search/address bar and hit enter. You will see the application there.

And yah! You have done installing the **POS OS** on your computer/machine. Now have a cup of coffee and enjoy the creation of the OS team.

Thank you :D

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Please feel free to email us if you face any difficulties setting up the project. I will assist you as soon as possible and in most cases within 1 day. Customer satisfaction is the most important thing that we care about.

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