

Project Setup CookBook

A Step-by-Step Guide to Installing, Configuring, & Running Project



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Intelligent Scholarship Portal

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This Cookbook aims to provide comprehensive guidance for setting-up and configuring “Intelligent Scholarship Portal” Project. It utilizes the **P.E.R.N. stack** consisting of PostgreSQL, Express.js, React.js, and Node.js.

1. System Requirements

Computer / Laptop with active Internet connection having Intel i3 / i5 / i7 processor, minimum 4GB (8GB recommended) memory [RAM], free disk space, Windows 9 or later.

2. Necessary Software & Tools

- **PostgreSQL** : Version **16.3.0** or above. [<https://www.postgresql.org/>]
- **Node.js** : Version **3.0.1** or above. [<https://nodejs.org/en>]
- **Express.js** : Version **4.18.3** or above. [<https://expressjs.com/>]
- **React.js** : Version **18.2.0** or above. [<https://react.dev/>]
- **IDE** : VSCode [<https://code.visualstudio.com/>]
- **Github Account**

3. Setup Guide

Install all the above mentioned software tools in your local machine and move to the next step.

Step 1 : Clone the Project from the Github

Navigate to the git repository,

<https://github.com/LifnaJos/Blockchain-based-National-Scholarship-Portal.git>

then click  **4 Branches** .

It will display the Active Branches of the Repository, go to

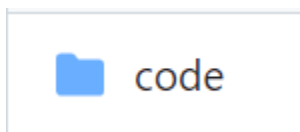
Phase-2-Intelligent-Scholarship-Portal-(2023-24-SE-09)



and click the Project Repository.

This code folder has the source code for the Project

(You can either download the **.zip file** or clone the project using **git clone <url>** on the terminal)



Step 2 : Install node modules

Use the following commands in terminal in VS Code to navigate to the “client” directory :

```
cd Blockchain-based-National-Scholarship-Portal
```

```
cd code
```

```
cd client
```

Now to install the required modules use the following command :

```
npm i
```

Similarly, for server side do the following :

```
cd Blockchain-based-National-Scholarship-Portal
```

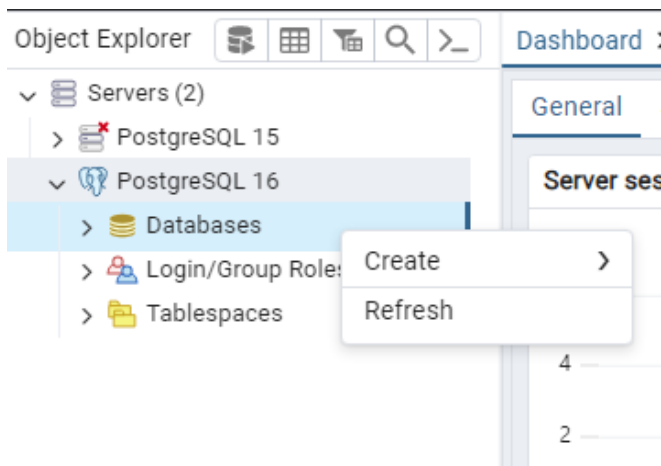
```
cd code
```

```
cd server
```

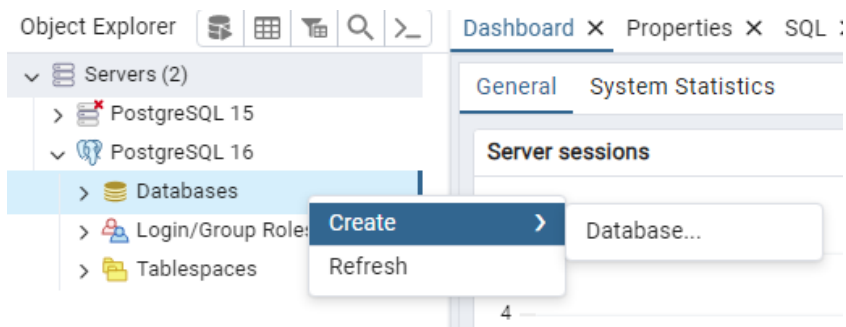
```
npm i
```

Step 3 : Setup PostgreSQL database on local system

- 1) Open pgAdmin4.
- 2) Right click on “Databases” on the left sidebar.

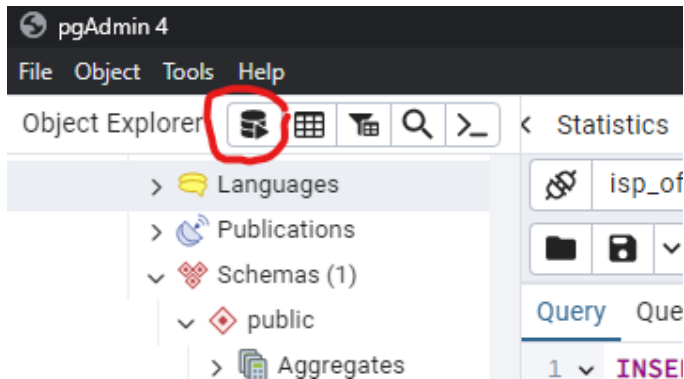


- 3) Click “Create” and then “Database”



- 4) Name the database as `isp_official`
- 5) Now copy and paste following SQL commands in the query tool on the sidebar :
[create queries](#)
[insert queries](#)

Query Tool :



- 6) Now open the project folder on VS Code and navigate to “server” folder :
`cd Blockchain-based-National-Scholarship-Portal`
`cd code`
`cd server`
- 7) Create a file named “config.js” using the following command on the terminal :
`touch config.js`
`code config.js`
- 8) Copy and paste the following code into “config.js” :

```
import pg from "pg";
const db = new pg.Client({
  user: "your-username",
  host: "localhost",
  database: "isp_official",
  password: "your-password",
  port: your-port,
});
db.connect();
export default db;
```
- 9) Replace your-username, your-password, your-port with the values you created while downloading pgAdmin4.
- 10) Lastly, open two terminals and navigate to “client” and “server” folders using the commands given in step 2.
- 11) For “client” terminal run the command : `npm start` and for “server” terminal run the command : `nodemon app.js`
- 12) Bingo! The website is up and running on your local machine!

