**Setting up**

**Windows**

If you want to use Windows for hosting the application, I highly recommend using XAMPP and adding the PostgreSQL extension to it. Please follow the instructions in the link below.

<https://w3guy.com/integrate-postgresql-database-xampp-windows/>

You can download stacks WAPP (Windows, Apache HTTP Server, PostgreSQL, and PHP), The one that I tried was Bitnami:

<https://bitnami.com/stacks/infrastructure>

But, it has caching set as default and some other features, which I could not disable. I am still getting familiar with it. As a result, it will be very slow to run any PHP file. If you are keen to learn it, give it a go.

Another option is to build and install Apache yourself, and then install PHP. If you haven’t done it before, like me, find a good tutorial. I managed to get the Apache working but could not load PHP.

**Linux**

If you have Linux OS in your computer you can use stacks from Bitnami or Turnkey.

Turnkey - <https://www.turnkeylinux.org/web-development>

I believe there are more stacks available for Linux than Windows as well as, there are much more tutorials for installing Apache and PHP.

**PgBouncer**

I spent several hours attempting to install it in Windows. In the end, I gave up because there was no tutorial or set of instructions that made sense.

Again, I believe it will be easier to do with Linux.

For now, I wouldn’t worry about it. Setting up PgBouncer may only require a few changes. It isn’t essential for the prototype.