**Setting up**

**Windows**

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

<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 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 spend several hours attempting to install it in Windows. At the end, I gave up because there was not a tutorial or set of instructions that seems to make 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 few changes, I hope. It is not essential for the prototype.