**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 ago.

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 beilve it will be easier to do with Linux

For now, I would’t worry about it. Setting up pgbouncer may only require few changes, I hope. It is not essencial for the prototype.