**Setup database**

We have setup 2 databases: DB2 for LUW (local version) and DB2 for z/OS (remote version). For security purposes, we need to get into the IBM network in order to access the DB2 for z/OS. Following is the step to setup local database:

1. Download and install DB2 on your machine. Our team has received an internal installation file from Professor Frank Butt which allows us to obtain the license. However, you can go to “<http://www-01.ibm.com/software/data/db2/linux-unix-windows/downloads.html>” and download the trial version. We created a document, called "DB2 installation", for the installation since there are some mandatory changes needed to be aware of when installing DB2 client.
2. Go to folder “Setup\_database”, run the following scripts
   1. “setup\_database.sql” script: to create database for the website as well as enable the DB2 spatial extender features
   2. “create\_house\_table.sql” script: to create table for house and import the pre-geocoded housing data.
   3. “create\_crime.sql” script: to create table for crime data and import the pre-geocoded crime data.
   4. “comment\_table” script: to create table for storing user’s comments on houses.
   5. Following the document “Set up city boundary.docx” to create tables for city boundaries and import the data.

**How to run the website**

1. Install Apache server. For my team, we use XAMPP tool. Link to download: <https://www.apachefriends.org/download.html>
2. php\_ibm\_db2.dll is needed for PHP db2\_connect function to connect to IBM db2 database.
   1. Go to (for Windows)  
      <http://sourceforge.net/projects/db2mc/files/IBM_DB2%20PHP%20Driver%20for%20Windows/>
   2. Click PHP 5.4.\_Latest xampp is PHP5.5, but latest php\_ibm\_db2.dll is for PHP5.4. I have to install two version of XAMPP, one is PHP5.5, another PHP5.4 for php\_ibm\_db2.dll
   3. Download php\_ibm\_db2-1.9.5-5.4-ts-vc9-x86.zip and unzip
   4. Copy php\_ibm\_db2.dll to php/ext/ directory
   5. In php.ini, add extension=php\_ibm\_db2.dll
   6. Restart Apache in XAMPP
3. Move the coding folder to C:\xampp\htdocs
4. Change the database connection information in the “connectToDatabase.php” file
5. Open browser and type “localhost/code/”
6. Done.