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Local Setup for KnowPlace

Prerequisites

To set up KnowPlace locally, there are a few prerequisites. You will need Maven, PostgreSQL, and a JDK if you don't have one already. Note, these commands are specific for my Linux Mint 15 environment so it may be different for your environment. If you are using Ubuntu, this tutorial should still work the same.

Installing Maven

To install Maven, just type:

```
sudo apt-get install maven
```

Setting up PostgreSQL

Install PostgreSQL server using this command:

```
sudo apt-get install postgresql
```

Connect to PostgreSQL server using this command:

```
sudo -u postgres psql postgres
```

Change PostgreSQL user password using this command:

```
\password postgres
```

To quit, type:

```
\q
```

To create the first database, which we will call "mydb", simply type:

```
sudo -u postgres createdb mydb
```

Connecting to PostgreSQL

Whenever you would like to connect to the "mydb" database as "postgres" user, use the following command:

```
psql -h localhost mydb postgres
```

Resetting your PostgreSQL database

In order to set up your database with tables, and data, use the following script that I created:

```
./database_reset.sh
```

When making changes to the database, I recommend that you make changes to the SQL files in the sql/ folder and run the database_reset.sh script. This is so that everyone can be on the same page when working with the database.

Installing OpenJDK 7

Maven requires a java development kit in order to properly compile and run the webapp. My system did not come with a preinstalled JDK, so I installed OpenJDK 7. I ran the following command to install OpenJDK 7:

```
sudo apt-get install openjdk-7-jdk
```

Setting Up Your Environment Variables

The next step is to set up your environment labels so that the java servlets know where to look for you database and maven knows where to look for your java compiler. You will be adding two environment labels `DATABASE_URL` and `JAVA_HOME`. In order to set the environment variables, you need to edit your bash profile. In my case, I edited the bashrc file.

```
vim ~/.bashrc
```

You may have to edit a different file depending on your environment. Ubuntu-based operating systems use `.bashrc`, while the OSX uses `.bash_profile`. At the end of the file, I added:

```
export DATABASE_URL="postgres://postgres:[password]@localhost:5432/mydb"
```

```
export JAVA_HOME=”/usr/lib/jvm/openjdk-7-jdk”
```

Replace `[password]` with the password that you setup before.

Setup Script

From here, you should be set up properly. To run the server, use the setup.sh script file that I made. It runs maven to package up the webapp and then runs the server. To run setup.sh, type:

```
./setup.sh
```