University of
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FIAT LUX

**CPSC 3720 – Calls (Team 1)**
**Installation Guide**

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# Calls – Installation Guide
## for Ubuntu 12.10

This guide provides step-by-step instruction to install Calls and its pre-requisites on a system running Ubuntu 12.10 (Linux).  No prior knowledge of Linux, or Linux commands, is required; however it is important that the steps in this guide are followed exactly, and in the order provided.  The entire installation and configuration process will require approximately 15-20 minutes to complete.

Steps 1-5 cover the installation and configuration of the required web server in order to run Calls on a local machine.  This installation and configuration process can be performed on a Windows or Mac machine by downloading and installing WAMP (for Windows) or MAMP (for Mac).

### Pre-Requisite Software

The following is a list of the pre-requisite software required to run Calls on the local machine (Calls could also be loaded onto a web server, however this guide provides the instructions to run Calls locally).

```
Apache Web Server        \
MySQL                     |  →   These three programs will be installed together as a bundle called LAMP
PHP                      /

phpMyAdmin
```

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## Step 1 – Linux Terminal

Open the Linux Terminal
- This can be done by pressing **Ctrl – Alt – T**

## Step 2 – Install LAMP

Type the following line (exactly as it is written):

**sudo apt-get install lamp-server^**

Press enter.  If prompted for a password enter your Ubuntu user password.  A prompt will ask if you want to continue, type **'y'** and press enter.

During the installation, you will be prompted to create a password for the root user of the MySQL server; choose a strong password, enter it, and re-enter it when prompted.

## Step 3 – Install phpmyadmin

Type the following line (exactly as it is written):

**sudo apt-get install phpmyadmin**

Press enter.  If prompted for a password enter your Ubuntu user password.  A prompt will ask if you want to continue, type **'y'** and press enter.

During the installation process, you will be prompted to selected what web server configuration to use; apache2 is selected by default, since that is what we will be using just press **enter**.

Another prompt will ask if you want to configure database for phpmyadmin with dbconfig-common, select '**No**'.

**Step 4 – Configure phpmyadmin**

Type the following line (exactly as it is written – note the space after apache.conf):

> **sudo  cp  /etc/phpmyadmin/apache.conf  /etc/apache2/conf.d**

Press **enter**.

Restart the Apache server using the following line:

> **sudo /etc/init.d/apache2 restart**

**Step 5 – Test Apache and phpmyadmin**

Close the terminal window and open your web browser (Firefox, Chrome, etc)

In the address bar, type:

> **http://localhost**

Press **enter**.  You should see a page that says in large letters **It Works!**  This means that Apache is running.

In the address bar, type:

> **http://localhost/phpmyadmin**

Press **enter**.  You should be presented with a phpMyAdmin page requesting you to login.  Enter '**root**' as the username, and the password you chose during installation.  Once you have logged in you are ready to begin setting up Calls.

**Step 6 – Setting up Calls database and user**

Once logged into phpMyAdmin, select the **Databases** tab and create a new database and from the drop-down list select **utf8_unicode_ci**.  You may choose any name you want, just be sure to remember it, as we will be requiring it later.

Next, select the **Users** tab, select **Add User**.  You may choose any username you want, just be sure to remember is, as we will be requiring it later.  From the drop-down list beside Host, select **local**.  In the password text box enter a password (be sure to remember it, we will require it later).  Re-enter the password in the next text box.  Under 'Global privileges' select **Check All**.  Select **Add user**.

Once you have created the database and the user, select the database from the left. Then select **Import** from the top of the screen. Next, select the option to choose a file to import, and navigate to the .sql file included with the Calls application and import the file. Click **Go** and the database will be set up for use with the Calls application.

**Step 7 – Setting up Calls**

Copy all files contained in the 'Calls' folder into:

**/var/www**

*Note: if you are unable to copy the files into the /var/www folder due to permissions follow this step:*

*Step 7.1 – Setting permissions for /var/www*

*Open a terminal window and type the following:*

***cd ../../var***

*This will navigate you to the root directory of the drive, then to the /var folder. Next type the following line:*

***sudo chown –R <u>username</u> www/***

*Where <u>username</u> is replaced with your Ubuntu system username. This will provide your user with ownership permission for the /www folder, allowing you to add/remove/edit file in the /www folder.*

Finally, open login.php in a text editor and replace the username (in single quotations – 'robh_user') with the username you created, the password (in single quotations – '3720project') with the password you created, and the database name (in single quotations – 'robh_3720') with the name of the database you created.

# Congratulations!

You have completed the installation and configuration of Calls. See the User Manual for information on how to use the system.