DB Practical Work 0: Setting the system up

December 1, 2017

Abstract

The following leaflet gives the steps to set the development environment up.

Contents

1	Woı	rk to do	2
2	Inst	callation	2
	2.1	On the Virtual Machine	3
	2.2	Using the lightweight Vagrant image	4
3	Scri	ipts	5

1 Work to do

You have to set your system up in order to get a proper development environment. You must install the environment by following section 2.

2 Installation

Using the virtual machine is recommended but you can also use a personnal machine to run the Vagrant image. Choose one of the following subsection.

2.1 On the Virtual Machine

- 1. Get the VM called "VMWARE UBUNTU 16 64 LTS DBPROJECT M MARTINEAU" in D:\VM Productions\ (if needed, the username is ubuntu and the password)
- 2. Start it
- 3. Go in /home/ubuntu/db-project/: here are the sources already installed.
- 4. Put:
 - the SQL table creation commands (CREATE TABLE) inside /home/ubuntu/db-project/sql/schemas.sql
 - the SQL entries creation commands (INSERT INTO) inside /home/ubuntu/db-project/sql/entries.sql
- 5. Go in /home/ubuntu/db-project/scripts and click on populate_db.sh

If you open a web browser inside the VM and go to http://127.0.0.1, you will find the web application. PHPMyAdmin is accessible at http://127.0.0.1/phpmyadmin/ (user: root, password: password).

There are many scripts to manipulate the VM: they are in /home/ubuntu/db-project/scripts. You can click on them to execute them. Their roles are described in section 3.

2.2 Using the lightweight Vagrant image

You will need the following elements for the software to work:

- 1. Virtualbox (https://www.virtualbox.org/)
- 2. Vagrant (https://www.vagrantup.com/)

Once you have got all the requirements fulfilled, you can proceed with the following steps :

- 1. Download https://github.com/prafiny/db-project/archive/master.zip
- 2. Unzip the archive somewhere.
- 3. Put:
 - the SQL table creation commands (CREATE TABLE) inside sql/schemas.sql
 - the SQL entries creation commands (INSERT INTO) inside sql/entries.sql

4. Then

- For Windows: go in the folder scripts/win, click on the launch_vagrant script.
- For Linux/MacOS: go in the folder scripts/ and execute the launch_vagrant script.

5. Wait

The Vagrant image should be ready and running. If you open a web browser and go to http://127.0.0.1:8080, you will find the web application. PHPMyAdmin is accessible at http://127.0.0.1:8080/phpmyadmin/ (user: root, password: password).

You can edit the code directly on your host operating system. To shut the image down, you can use the script stop_vagrant.

There are many scripts to manipulate the image:

- For Windows in scripts/win
- For Linux/MacOS in scripts

Their roles are described in section 3.

3 Scripts

populate_db This script creates the tables and entries using the files in the folder sql/

snapshot_db This script saves the current dbproject_app mysql database into
the sql/ files

tests Launches the unit tests.

update Update the source code and dependencies.