# DB Practical Work 0: Setting the system up

## December 12, 2017

#### Abstract

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

## Contents

2.1	On the Virtual Machine	
		4 5
	2.1 2.2	Installation 2.1 On the Virtual Machine

### 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. When it's done, click on populate\_db. It will create the database.
- For Linux/MacOS: go in the folder scripts/ and execute the launch\_vagrant script. When it's done, execute the script populate\_db. It will create the database.

#### 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.

reset\_env resets the whole project WARNING: deletes all the data including model\_student/, sql/ and the SQL databases.