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Here are some instructions on how to compile and run the backend and frontend on Mac OS:

1. Make sure MySQL is installed
2. Make sure the MySQL service is running
   1. Go To **System Preference 🡪 MySQL 🡪 Start MySQL Server**
3. Make sure we have Python version 2.7 in the computer
   1. Python standard’s libraries are installed along with MacOS system
   2. Make sure we have **pip** is the Python package manager, it always is installed in any Python version
4. Installing prerequisite libraries:
   1. Installing **virtual environment** library package to create the virtual environment to install some dependency packages. Every step for installing package and running application, we have to open terminal to do that.
      1. To install: typing in Terminal **pip install virtualenv**
      2. To create virtual environment: typing in Terminal **virtualenv env**
      3. To activate virtual environment: typing in Terminal **source env/bin/activate**
   2. Installing requirement package: In the submission zip file, we have a **requirement.txt** file. This file content every dependency packages that we have to install. To install: Open Terminal and Type:

**pip install –r requirement.txt**

* 1. Installing data into database:
     1. In this package, we have a **query.sql** file, which contains our relations and some insert methods to insert new data. We use MySQLBench to create and and install this database into mysql server
     2. To make sure these applications could connect with MySQL, you should make sure you provide your correct **root/password** of the MySQL server.
        1. In MacOS application, to input **root** and **password** information,
        2. In the web application, to input **root** and **password** information, you can go to **app/app.py** line 8 to change this information
  2. To run MacOS application, we open the terminal and type:
     1. **python appointment.py**. It will open window application to run the program and connect with MySQL server

To run Web application, we open terminal and type:

**python \_\_init\_\_.py**

After that, use could open any web browser and type in the address bar[**http://localhost:5000**](http://localhost:5000). It will connect with MySQL Server to get the database

1. This code is including in github link: <https://github.com/vunhatminh241191/database_545B>