# Exercise: Set up the client project

## **Overview**

At this point you are familiar with all the tools required for creating a booking system for Little Lemon. You have refreshed your knowledge on Python, Jupyter Notebooks, Connector/python and version control. Now you are ready for this exercise, which is to create your working environment.

## **Scenario**

Little Lemon needs you to help them to build a Booking System so that their guests can book tables with the restaurant. Use your knowledge of database clients to help Little Lemon complete this task.

## **Prerequisites**

To complete this task, you need to create a folder and then open a command prompt at that location. Next, to start writing code to create the booking system, you first need to ensure that you have Python installed, a working IDE and configured a driver that you can use to interact with your database.

## **Task Instructions**

Complete the following tasks to set up the client project.

## **Task 1**

Your first task is to navigate to your terminal and ensure that Python is installed and available on the command path. To complete this task, type the following syntax:

python --version

This should display the version number of the python installed. Your OS should be running Python version 3. If faced with an earlier version of Python, or a command not found message, navigate to <https://www.python.org/downloads/> for instructions on how to configure and install an appropriate version for your operating system.

## **Task 2**

Having established that an up-to date version of python is installed on your machine you will need to install Jupyter. You can install Jupyter using the following code:

python -m pip install jupyter

Once Jupyter is installed, you can open a notebook by typing the following command in the terminal:

jupyter notebook

Once you’ve opened Jupyter, you then need to create a new notebook for writing your code by clicking new and then selecting ipykernel. This action creates a new notebook from which you can compile code.

## **Task 3**

Your third and final task is to establish a connection between Python and your database using the following steps:

Step One:

Ensure that mysql-connector is installed by running the command:

!pip install mysql-connector-python

Step Two:

Import the connector under the alias connector:

import mysql.connector as connector

Step Three:

Verify that a connection can be made with your database by calling the connection method from the connector class:

connection = connector.connect(user = "your\_user\_name", password = "your\_password\_for\_database")

## **Conclusion**

You now have configured your working environment so that you can use it to write the code for Little Lemon’s booking system.