SERVER PROJECT MAIL

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# SQLite DATABASE

## Creation

First, we create the SQLite database. Here, we need 3 tables :

* email: a table with all the informations about each account.

Columns:

* + Address: the email address of the account.
  + Password: the password of the account.
  + Service: the name of the mail service (gmail, outlook..)
* mail: a table with all the mails from each account.

Columns :

* + Sender: the email address of the sender.
  + Receiver: the email address of the receiver.
  + Body: the message.
  + Date: the date of the mail.
  + Subject: the subject of the mail.
* log: a table with all the log of connection to the mail server.

Columns:

* + Type: the type of connection (login, send, receive..)
  + Ip: the ip address of the machine.
  + Date: the date and time of the connection.
  + Service: the name of the mail service (gmail, outlook..)

## Connection and methods

Now that the database is created, we need a bunch of methods to manipulate it.

First, we need to establish the connection to the database. We create a “create\_connection” method which will connect python with the database file (here names “pythonsqlite.db”).

We use this call to sqlite3 to connect it :



Now that we are connected to the database, let’s create each method.

1. DROP METHODS

We create drop methods to delete data stored in each table. Here we created 3 general drop methods (drop\_email, drop\_all\_mail and drop\_log) and a particular drop method which only drop the mails of a specified account (drop\_mail). This last method will be used when we recover each mails from a server (we’ll see later).

1. INSERT INTO DB METHODS

We create insert methods to insert data in each table of the database. Here we create 3 general methods (insert\_email, insert\_mail and insert\_log).

1. SELECT FROM DB METHODS

We create select methods to select data when needed. Here we create 3 general methods (select\_email, select\_mail and select\_log)

# Mail Server

## Connection

## Recuperation

## Sending

# Interface