

MSPaintr: mysql.connector

Github: <https://github.com/mysql/mysql-connector-python>

1. What does this technology (library/framework/service) accomplish for you?

This allows us to access our MySQL server through our TCP server to get information from our database onto our web app.

Connect

This allows use to connect to our database to we can use its information

Cursor

Provides us with the list of methods that will help execute commands and keep the connection open

Execute

This is used to execute sql commands to pull information from the database

Commit

This carries out whatever commands were sent to the database and gets the result of the query.

2. How does this technology accomplish what it does?

Connect

https://github.com/mysql/mysql-connector-python/blob/master/lib/mysql/connector/_init_.py?fbclid=IwAR0sWpdl8iztIDSR-1PqbUKjyE8QVbTe-BTIJq_Bmp1yGUnoQ4Gz42jsDc8#L137

This will open a connection with the server. Then return a MySQLConnection object which can be used to execute SQL commands on the database.

Cursor

<https://github.com/mysql/mysql-connector-python/blob/master/lib/mysql/connector/cursor.py>

This class creates the list of methods that are necessary to execute database commands.

Execute

<https://github.com/mysql/mysql-connector-python/blob/master/lib/mysql/connector/cursor.py#L515>

This operation will take in the SQL command as a string and a tuple of arguments. The tuple values fill in any missing gaps and then the entire statement is converted into SQL.

Commit

<https://github.com/mysql/mysql-connector-python/blob/master/lib/mysql/connector/connection.py#L957>

This takes whatever commands have been sent recently and executes the queries on the database. This calls `_execute_query` which will return the result of the once it has been sent to the database.

3. What license(s) or terms of service apply to this technology?

Link: <https://github.com/mysql/mysql-connector-python/blob/master/LICENSE.txt>

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For our project, this means that we are free to use and study the code provided in MySQL. Because we do not need to copy or modify the existing source code (we are simply running it), we are not too concerned with the conditions stated above.