

IMPLEMENTING WEB APPLICATION

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| Date | 17 th November 2022 |
| Team ID | PNT2022TMID30805 |
| Project Name | Inventory Management System For Retailers |

STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

Import Python Library :

```
pip install --force-reinstall ibm_db==3.1.0 ibm_db_sa==0.3.7 import  
ibm_db
```

Create the DB2 database connection:

```
dsn = ( "DRIVER={0};" "DATABASE={1};" "HOSTNAME={2};" "PORT={3};" "PROTOCOL={4};"  
"UID={5};" "PWD={6};" "SECURITY={7};" ).format(dsn_driver, dsn_database, dsn_hostname, dsn_port,  
dsn_protocol, dsn_uid, dsn_pwd,dsn_security) print(dsn)
```

Now establish the connection to the database

try:

```
conn = ibm_db.connect(dsn, "", "") print ("Connected to database: ", dsn_database, "as user:  
", dsn_uid, "on host: ", dsn_hostname)
```

except:

```
print ("Unable to connect: ", ibm_db.conn_errormsg() )  
server = ibm_db.server_info(conn)  
  
print ("DBMS_NAME: ", server.DBMS_NAME)  
print ("DBMS_VER: ", server.DBMS_VER)  
print ("DB_NAME: ", server.DB_NAME)  
  
client = ibm_db.client_info(conn)  
  
print ("DRIVER_NAME: ", client.DRIVER_NAME) print  
("DRIVER_VER: ", client.DRIVER_VER) print
```

```
("DATA_SOURCE_NAME:  ", client.DATA_SOURCE_NAME) print
("DRIVER_ODBC_VER:   ", client.DRIVER_ODBC_VER) print
("ODBC_VER:         ", client.ODBC_VER)
print ("ODBC_SQL_CONFORMANCE: ", client.ODBC_SQL_CONFORMANCE)
print ("APPL_CODEPAGE:      ", client.APPL_CODEPAGE) print

("CONN_CODEPAGE:     ", client.CONN_CODEPAGE)
```

Close the Connection:

```
ibm_db.close(conn)
```