Detailed Design Document – Stock Market Data Collection

# **Stock\_db\_handler.py**

Functions –

1. \_connect() –
   * **Desc** - Connects to the database using the given database path.
   * **Details** - This code defines a method \_connect that connects to a SQLite database using the sqlite3 module. If the connection is successful, it logs a message. If there is an error, it logs a critical message and raises an exception.
   * **Parameters** – None
   * **Return value** – None
2. \_create\_stock\_data\_table() –
   * Desc
   * Details
   * Parameters
   * Return value
3. \_create\_job\_table() –
   * Desc
   * Details
   * Parameters
   * Return value
4. inser\_stock\_data() –
   * Desc
   * Details
   * Parameters
   * Return value
5. insert\_job\_data() –
   * Desc
   * Details
   * Parameters
   * Return value
6. disconnect()–
   * Desc
   * Details
   * Parameters
   * Return value
7. \_create\_stock\_data\_table() –
   * Desc
   * Details
   * Parameters
   * Return value

Creates a table named 'basic\_stock\_data' in the database if it does not already exist. The table has the following columns:

- company: TEXT

- Datetime: DATETIME

- Adj\_close: REAL

- high: REAL

- low: REAL

- close: REAL

- open: REAL

- volume: INTEGER

The primary key is a combination of the 'company' and 'Datetime' columns.

Additionally, an index named 'idx\_company' is created on the 'company' column.

1. This function logs the creation of the table and any errors that occur.